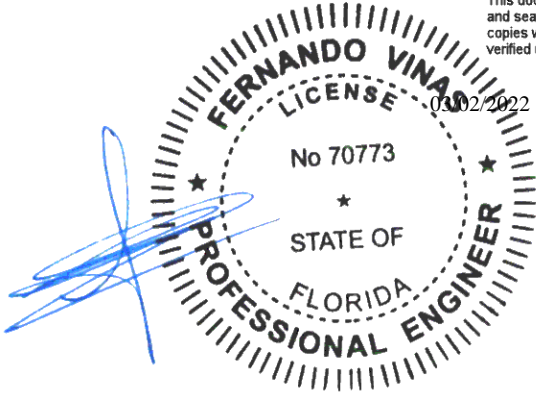


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www.alpineitw.com



COA#0-278

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-6958
Job Description: Truntz	
Address:	

Job Engineering Criteria:
Design Code: FBC 7th Ed. 2020 Res.
IntelliVIEW Version: 21.01.01A through 21.02.01
JRef #: 1Xdl2150012
Wind Standard: ASCE 7-16 Wind Speed (mph): 130
Design Loading (psf): 40.00
Building Type: Closed

This package contains general notes pages, 60 truss drawing(s) and 7 detail(s).

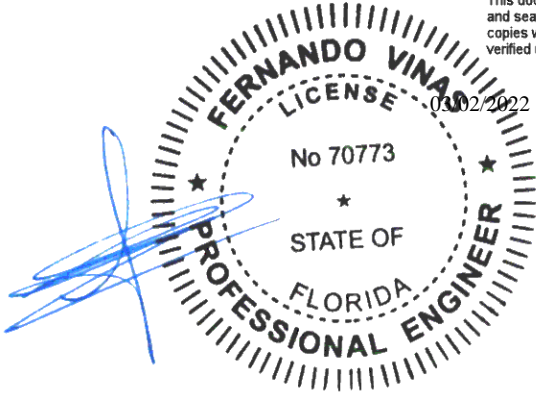
Item	Drawing Number	Truss
1	061.22.1523.14170	A01
3	061.22.1523.13122	A03
5	061.22.1532.24360	A05
7	061.22.1523.13686	A07
9	061.22.1523.14294	A09
11	061.22.1530.40323	A11
13	061.22.1530.35520	A13
15	061.22.1530.16950	A15
17	061.22.1523.14122	A17
19	061.22.1523.13561	A19
21	061.22.1523.13356	A21
23	061.22.1523.14216	A23
25	061.22.1530.12033	A25
27	061.22.1523.13014	A27
29	061.22.1523.12825	A29
31	061.22.1523.13170	A31
33	061.22.1523.12607	B01
35	061.22.1523.12951	B03
37	061.22.1523.13716	B05
39	061.22.1523.13638	B07
41	061.22.1523.14185	B09
43	061.22.1528.41113	C02
45	061.22.1527.35877	J01HJ
47	061.22.1527.33900	J02HJ
49	061.22.1523.13920	J04
51	061.22.1523.14013	J06

Item	Drawing Number	Truss
2	061.22.1523.12966	A02
4	061.22.1523.13562	A04
6	061.22.1523.12747	A06
8	061.22.1523.14247	A08
10	061.22.1531.26817	A10
12	061.22.1530.38687	A12
14	061.22.1530.19547	A14
16	061.22.1523.13592	A16
18	061.22.1523.13060	A18
20	061.22.1523.13404	A20
22	061.22.1523.12670	A22
24	061.22.1523.13623	A24
26	061.22.1523.13997	A26
28	061.22.1523.13747	A28
30	061.22.1523.13091	A30
32	061.22.1523.13795	A32
34	061.22.1523.13810	B02
36	061.22.1523.12749	B04
38	061.22.1523.12810	B06
40	061.22.1523.14045	B08
42	061.22.1523.13311	C01
44	061.22.1523.13935	J01
46	061.22.1523.13419	J02
48	061.22.1523.13388	J03
50	061.22.1523.13264	J05
52	061.22.1523.13467	J07

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COA#0-278

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 22-6958
Job Description: Truntz	
Address:	

Item	Drawing Number	Truss
53	061.22.1523.13857	J08
55	061.22.1523.12622	PB01
57	061.22.1523.12748	PB03
59	061.22.1523.14171	PB05
61	A14015ENC160118	
63	BRCLBSUB0119	
65	DEFLCAMB1014	
67	PB160160118	

Item	Drawing Number	Truss
54	061.22.1523.13216	J09
56	061.22.1523.13498	PB02
58	061.22.1523.13139	PB04
60	061.22.1523.13889	PB06
62	A14030ENC160118	
64	CNNAILSP1014	
66	GBLLETIN0118	

## **General Notes**

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

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

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

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

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

### **Temporary Lateral Restraint and Bracing:**

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

### **Permanent Lateral Restraint and Bracing:**

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

### **Connector Plate Information:**

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

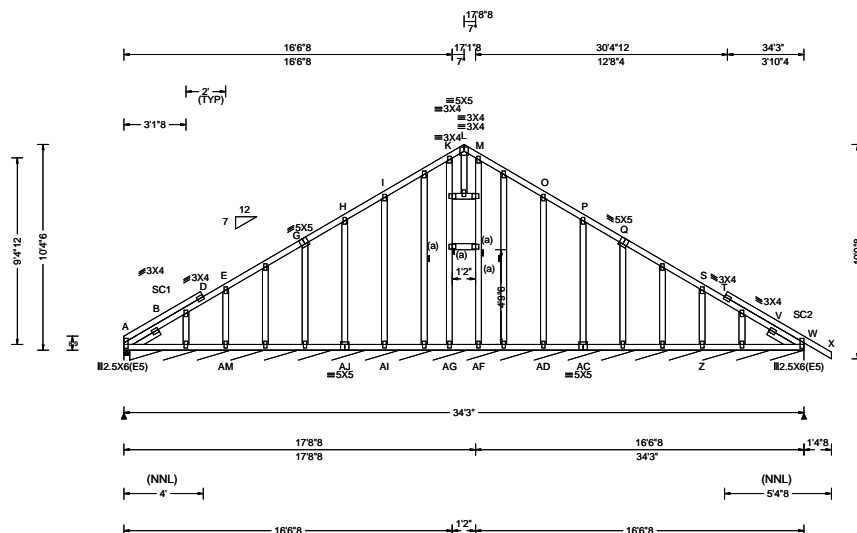
Refer to ASCE-7 for Wind and Seismic abbreviations.

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](http://www.awc.org).
2. ICC: International Code Council; [www.iccsafe.org](http://www.iccsafe.org).
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; [www.alpineitw.com](http://www.alpineitw.com).
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; [www.tpinst.org](http://www.tpinst.org).
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; [www.sbcacomponents.com](http://www.sbcacomponents.com).

SEQN: 75403 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A01	Cust: R 215 JRef: 1Xd12150012 T37 / DrwNo: 061.22.1523.14170 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.42 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.011 D 999 240 VERT(CL): 0.016 D 999 180 HORZ(LL): 0.017 T - - HORZ(TL): 0.020 T - - Creep Factor: 2.0 Max TC CSI: 0.878 Max BC CSI: 0.081 Max Web CSI: 0.306 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 326 -/- /- /366 /43 /840 W* 191 -/- /- /86 /59 -/- Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 W Brg Wid = 407 Min Req = - Bearings A & A 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 317 -454 I - K 521 -205 B - D 310 -447 K - L 500 -133 D - E 516 -600 L - M 500 -121 E - G 378 -484 M - O 521 -152

#### 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;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

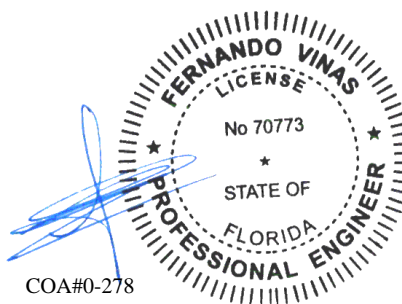
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice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

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A -AM	415 -225	AF-AD	434 -219
AM-AJ	428 -222	AD-AC	430 -217
AJ-AI	430 -220	AC- Z	428 -216
AI-AG	434 -219	Z - W	415 -208
AG-AF	433 -219		

#### Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
E -AM	427 -480	AD- O	209 -429
H -AJ	197 -395	AC- P	197 -395
I -AI	209 -429	Z - S	273 -450



COA#0-278

03/02/2022

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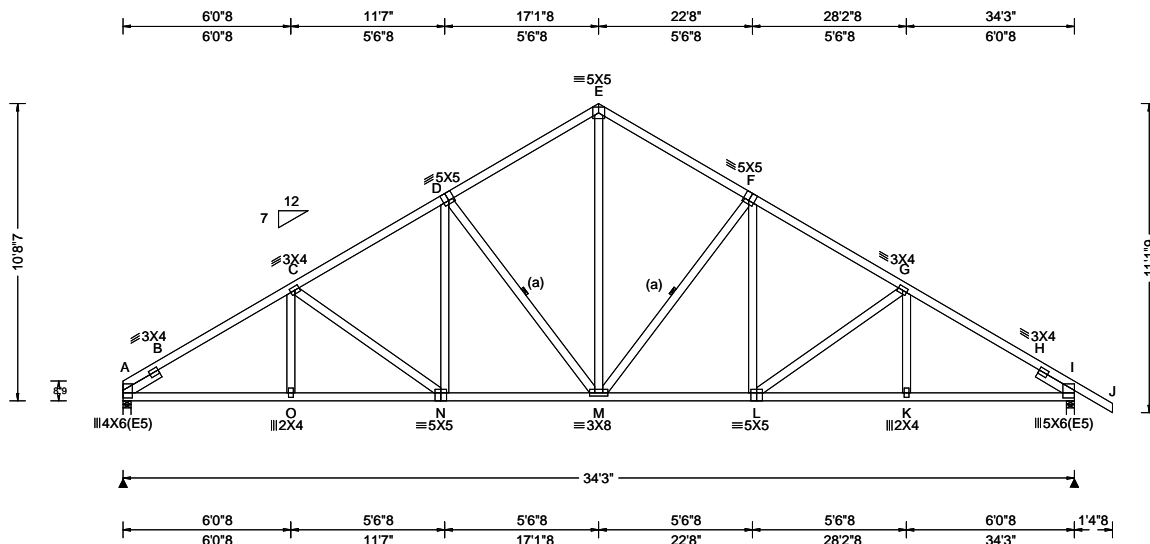
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)

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SEQN: 75589 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A02	Cust: R 215 JRef: 1XdI2150012 T23 / DrwNo: 061.22.1523.12966 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 M 999 240 VERT(CL): 0.198 M 999 180 HORZ(LL): 0.044 I - - HORZ(TL): 0.091 I - - Creep Factor: 2.0 Max TC CSI: 0.496 Max BC CSI: 0.555 Max Web CSI: 0.849 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1422 - / - / - / 825 / 265 / 289 I 1519 - / - / - / 904 / 292 / - Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.7 (Truss) I Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings A & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 697 -2344 E - F 606 -1466 B - C 677 -2239 F - G 651 -1884 C - D 653 -1888 G - H 671 -2226 D - E 606 -1465 H - I 690 -2285

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

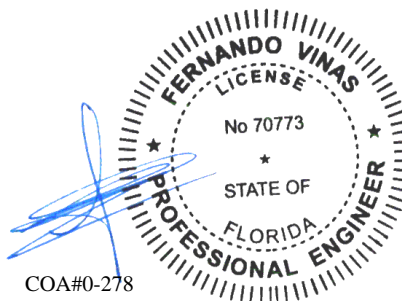
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - O	1862 -460	M - L	1540 -283
O - N	1859 -460	L - K	1844 -453
N - M	1542 -284	K - I	1847 -453

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - N	217 -382	E - M	1044 -409
N - D	382 -73	M - F	291 -578
D - M	294 -581	F - L	379 -69



COA#0-278

03/02/2022

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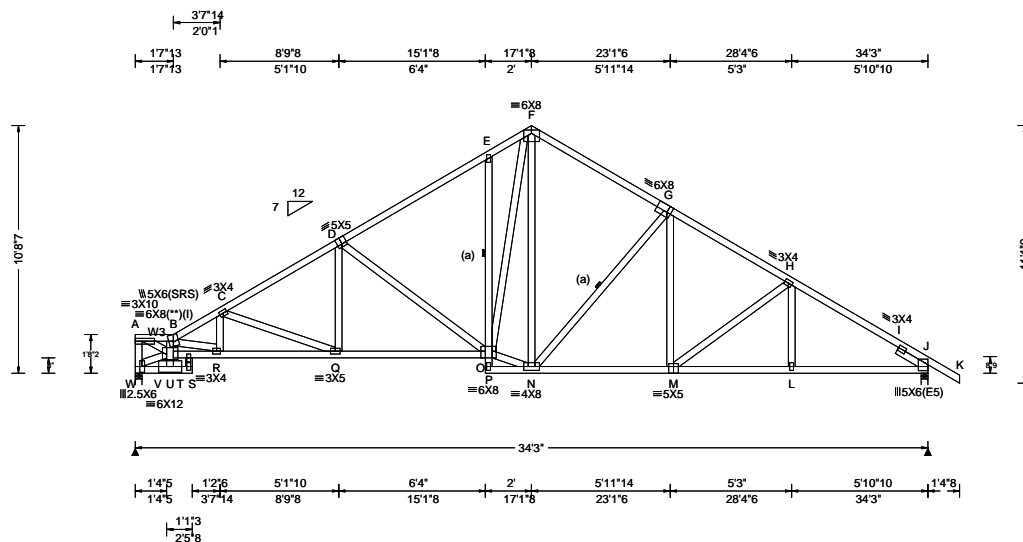
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)

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SEQN: 75405 / FROM:	COMN Qty: 1	Ply: 1 Truntz Truss Label: A03	Cust: R 215 JRef: 1XdI2150012 T35 / DrwNo: 061.22.1523.13122 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.42 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.129 E 999 240 VERT(CL): 0.264 E 999 180 HORZ(LL): 0.077 J - - HORZ(TL): 0.160 J - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.770 Max Web CSI: 0.814 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL W 1422 - / - / - / 798 / 269 / 278 J 1519 - / - / - / 903 / 291 / - Non-Gravity Wind reactions based on MWFRS W Brg Wid = 3.5 Min Req = 1.7 (Truss) J Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings W & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 521 -2596 F - G 446 -1476 B - C 602 -2929 G - H 473 -1910 C - D 512 -2354 H - I 472 -2224 D - E 462 -1768 I - J 489 -2277 E - F 554 -1689

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W3 2x4 SP #2;  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

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

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

#### Wind

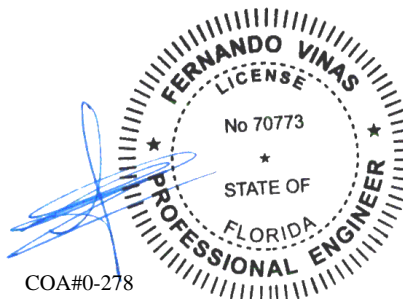
Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Deflection

Max JT VERT DEFL: LL: 0.13" DL: 0.14". See detail DEFLCAMB1014 for camber recommendations.  
Provide for adequate drainage of roof.



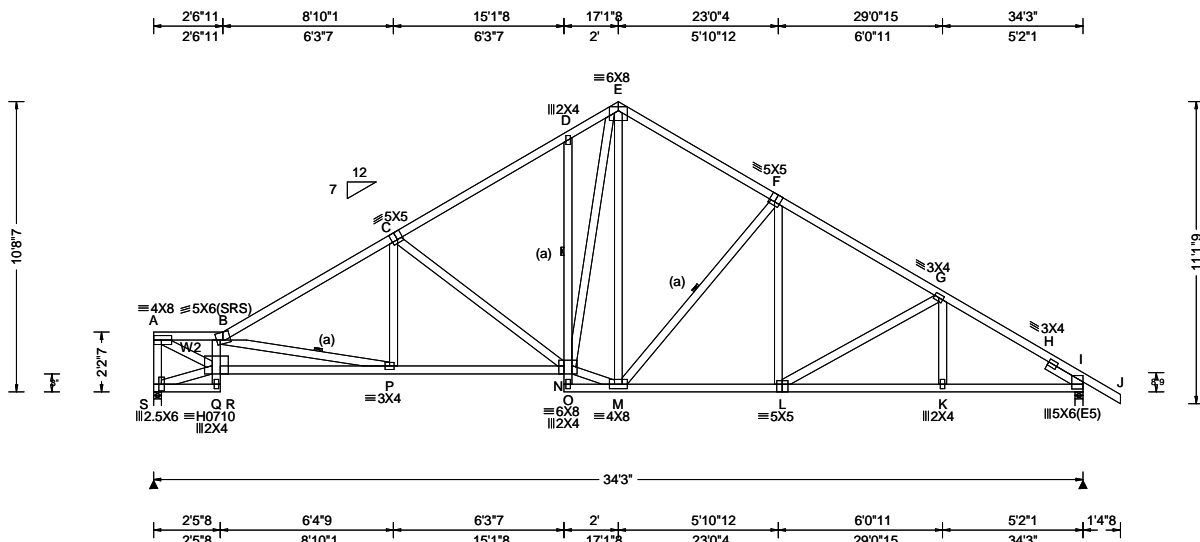
COA#0-278

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**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
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SEQN: 75406 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A04	Cust: R 215 JRef: 1XdI2150012 T7 / DrwNo: 061.22.1523.13562 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.42 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.138 D 999 240 VERT(CL): 0.285 D 999 180 HORZ(LL): 0.087 I - - HORZ(TL): 0.179 I - - Creep Factor: 2.0 Max TC CSI: 0.553 Max BC CSI: 0.882 Max Web CSI: 0.835 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1421 - / - / - / 784 / 271 / 277 I 1519 - / - / - / 904 / 290 / - Wind reactions based on MWFRS S Brg Wid = 3.5 Min Req = 1.7 (Truss) I Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings S & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 645 - 2894 E - F 450 - 1476 B - C 508 - 2378 F - G 467 - 1921 C - D 466 - 1770 G - H 475 - 2240 D - E 553 - 1683 H - I 492 - 2284

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W2 2x4 SP #2;  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

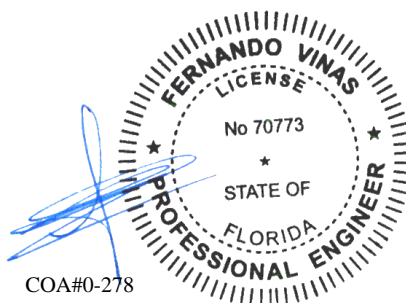
Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Deflection

Max JT VERT DEFL: LL: 0.14" DL: 0.15". See detail DEFLCMB1014 for camber recommendations.  
Provide for adequate drainage of roof.

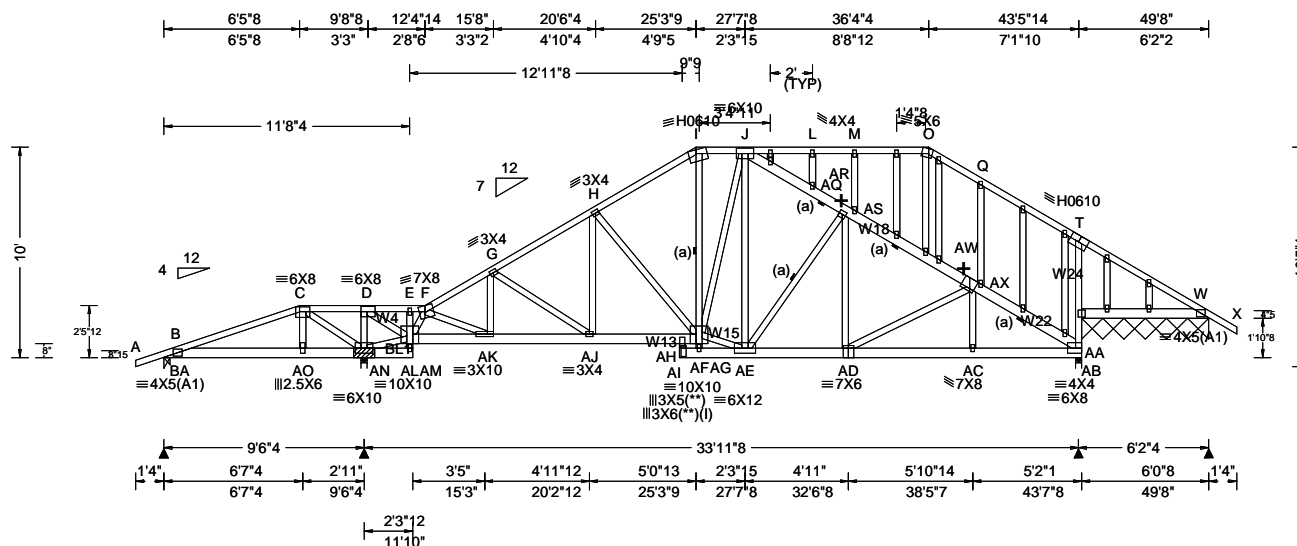


COA#0-278

03/02/2022

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00  Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.128 N 999 240 VERT(CL): 0.292 N 999 180 HORZ(LL): 0.080 U - - HORZ(TL): 0.184 U - - Creep Factor: 2.0 Max TC CSI: 0.573 Max BC CSI: 0.398 Max Web CSI: 0.840  VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL BA 306 /-106 /- /- /86 /- AN 5828 /- /- /- /583 /- AB 1719 /- /- /- /86 /- AA*497 /- /- /- /55 /-  Non-Gravity Wind reactions based on MWFRS BA Brg Wid = 3.5 Min Req = 1.5 AN Brg Wid = 3.5 Min Req = - AB Brg Wid = 3.5 Min Req = 1.5 AA Brg Wid = 72.5 Min Req = - Bearings BA, AN, AB, & AA are a rigid surface.

**Lumber**  
Top chord: 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W4, W13, W15 2x4 SP #2; W18, W22 2x6 SP 2400f-2.0E; W24 2x4 SP M-31;

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

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 61 plf at -1.33 to 61 plf at 6.46  
TC: From 31 plf at 6.46 to 31 plf at 8.52  
TC: From 61 plf at 8.52 to 61 plf at 12.41  
TC: From 63 plf at 12.41 to 63 plf at 51.00  
BC: From 4 plf at -1.33 to 4 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 6.49  
BC: From 10 plf at 6.49 to 10 plf at 8.52  
BC: From 20 plf at 8.52 to 20 plf at 49.67  
BC: From 5 plf at 49.67 to 5 plf at 51.00  
TC: -5 lb Conc. Load at 6.49  
TC: 168 lb Conc. Load at 8.52  
BC: 532 lb Conc. Load at 6.49  
BC: 116 lb Conc. Load at 8.52

**Loading**  
Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

**Bearing Block(s)**  
Brg blocks: 0.128"x3", min. nails  
brg x-loc #blocks length/blk #nails/blk wall plate  
2 9.375" 1 12" 10 Rigid Surface  
Brg block to be same size and species as chord.  
Refer to drawing CNNAILSP1014 for more information.

Members not listed have forces less than 375#

**Maximum Top Chord Forces Per Ply (lbs)**

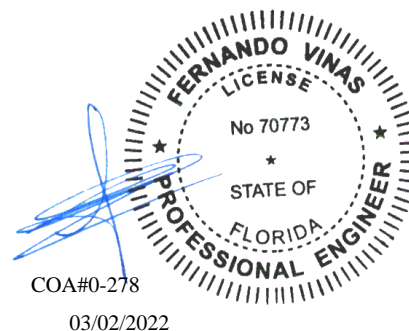
Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	1428 -72	G - H	357 -4418
C - D	3542 -303	H - I	317 -3998
D - E	424 -51	I - J	242 -3232
E - F	424 -52	Q - T	46 -434
F - G	329 -4038		

**Maximum Bot Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
B -AO	50 -1257	AH-AF	3659 -283
AO-AN	34 -1212	AE-AD	3987 -297
AL-AK	1434 -115	AD-AC	4566 -337
AK-AJ	3482 -279	AC-AB	4566 -336
AJ-AH	3658 -284		

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
C -AO	668 -230	AF-AG	86 -653
C -AN	326 -2825	AF-J	763 -66
AN-D	296 -2543	AF-AE	3301 -246
AN-AL	300 -3569	J -AR	285 -3681
D -AL	3461 -272	AE-AR	124 -1648
AL-F	329 -3693	AR-AW	349 -4615
F-AK	2205 -174	AD-AW	46 -652
AK-G	126 -971	AW-AB	396 -5360
H-AF	65 -678	AB-AA	1268 -125
AI-AH	441 -46	AA-T	94 -777
I-AF	1057 -41		



**Plating Notes**  
All plates are 2X4 except as noted.  
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.  
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

SEQN: 422335	GABL	Ply: 1	Job Number: 22-6958	Cust: R 215 JRef: 1Xdl2150012 T42
FROM:		Qty: 1	Truntz	DrwNo: 061.22.1532.24360
Page 2 of 2			Truss Label: A05	KD / FV 03/02/2022

#### Additional Notes

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

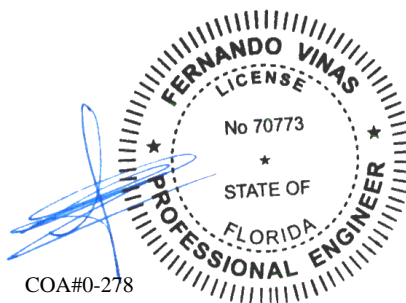
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

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

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

#### Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
AQ- L	51 -471	AX- Q	87 -618
AS- M	80 -704		



COA#0-278

03/02/2022

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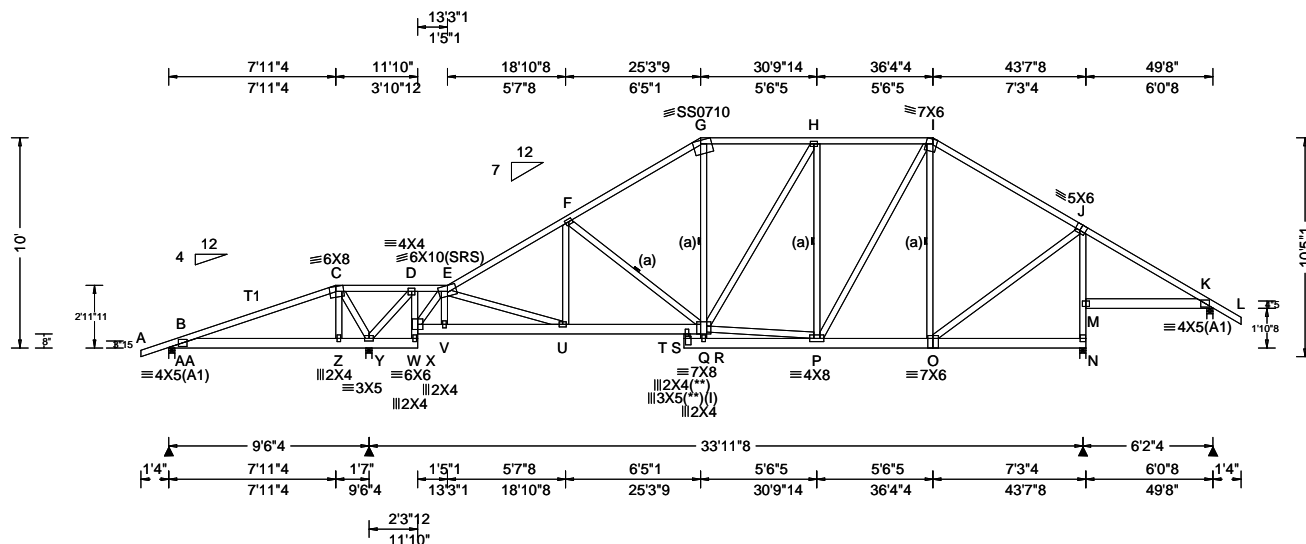
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Suite 305  
Orlando FL, 32821

SEQN: 75407 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A06	Cust: R 215 JRRef: 1XdI2150012 T40 / DrwNo: 061.22.1523.12747 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.97 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.059 Q 999 240 VERT(CL): 0.121 Q 999 180 HORZ(LL): 0.012 M - - HORZ(TL): 0.025 M - - Creep Factor: 2.0 Max TC CSI: 0.520 Max BC CSI: 0.141 Max Web CSI: 0.525 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL AA 315 /-86 /- /100 /90 /300 Y 2186 /- /- /1367 /- /- N 1616 /- /- /896 /- /- K 338 /- /- /272 /52 /- Wind reactions based on MWFRS AA Brg Wid = 3.5 Min Req = 1.5 (Truss) Y Brg Wid = 3.5 Min Req = 1.5 (Truss) N Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings AA, Y, N, & K are a rigid surface. Members not listed have forces less than 95#

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

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

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

#### Purlins

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

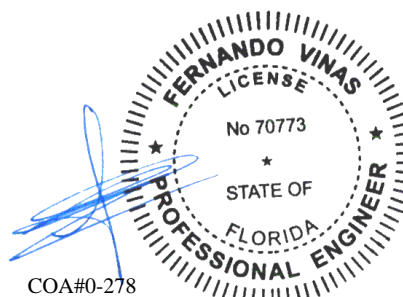
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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COA#0-278

03/02/2022

#### Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	867 -134	G - H	171 -1173
C - D	1113 -136	H - I	139 -1048
E - F	171 -1747	I - J	140 -1006
F - G	141 -1461		

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Z	129 -804	U - S	1445 -21
Z - Y	132 -797	S - Q	1413 -31
W - V	1075 -94	P - O	772 0
V - U	1067 -94		

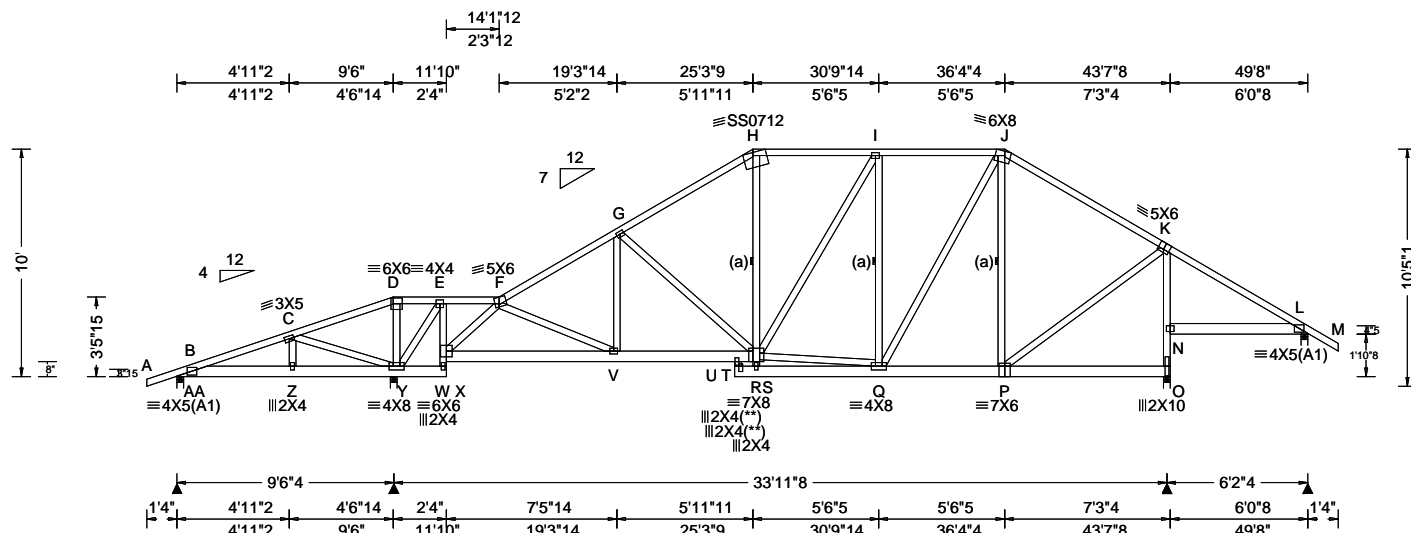
#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - Y	288 -832	H - P	21 -528
Y - D	310 -1736	P - I	559 0
D - W	1203 -92	I - O	1 -446
W - E	128 -1507	O - J	963 0
E - U	411 -40	J - M	93 -1477
G - Q	384 0	M - N	75 -1556
Q - P	1022 0		

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SEQN: 75408 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A07	Cust: R 215 JRRef: 1Xdl2150012 T1 / DrwNo: 061.22.1523.13686 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.97 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.058 R 999 240 VERT(CL): 0.120 R 999 180 HORZ(LL): 0.010 N - - HORZ(TL): 0.023 N - - Creep Factor: 2.0 Max TC CSI: 0.524 Max BC CSI: 0.124 Max Web CSI: 0.590 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL AA 321 /-69 /- /105 /64 /298 Y 2164 /- /- /1371 /433 /- O 1599 /- /- /883 /274 /- L 338 /- /- /271 /99 /- Wind reactions based on MWFRS AA Brg Wid = 3.5 Min Req = 1.5 (Truss) Y Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 1.5 (Truss) L Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings AA, Y, O, & L are a rigid surface. Members not listed have forces less than 975#

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

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

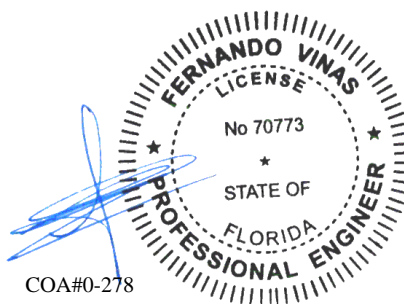
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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



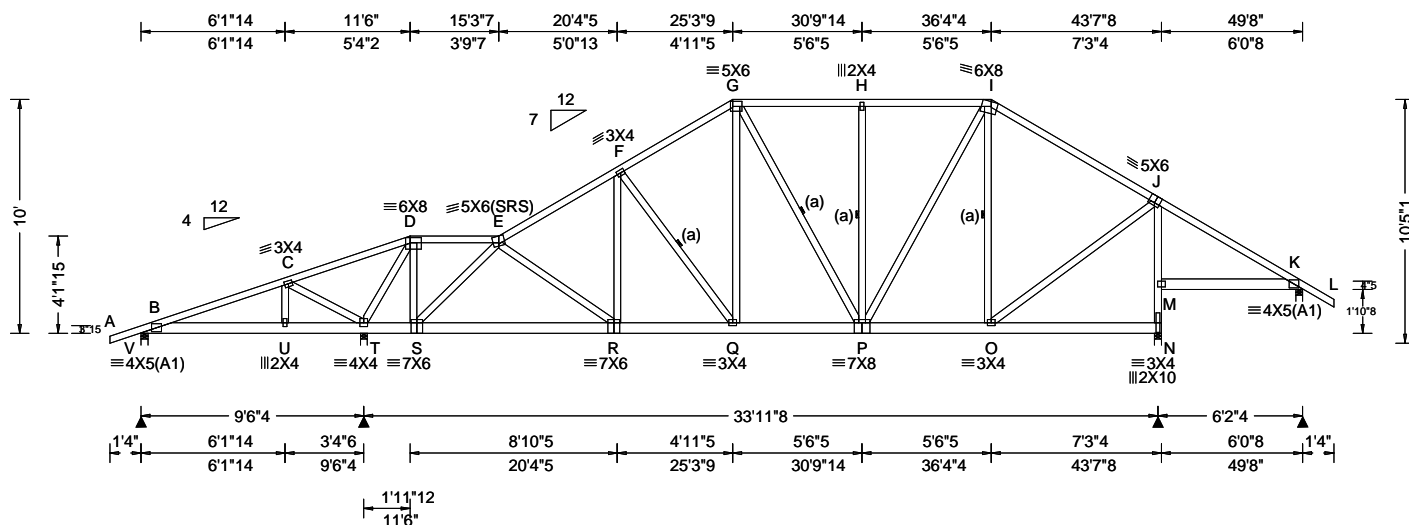
COA#0-278

03/02/2022

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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)

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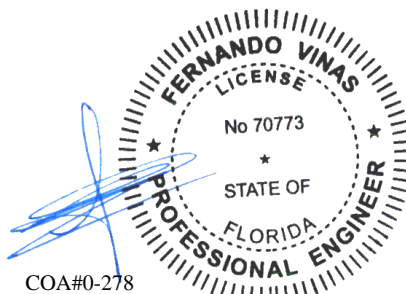
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.97 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 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.053 Q 999 240 VERT(CL): 0.109 Q 999 180 HORZ(LL): 0.011 D - - HORZ(TL): 0.024 D - - Creep Factor: 2.0 Max TC CSI: 0.557 Max BC CSI: 0.129 Max Web CSI: 0.819  VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL V 299 /-28 /- /140 /43 /298 T 2137 /- /- /1336 /451 /- N 1615 /- /- /880 /272 /- K 338 /- /- /272 /99 /-  Wind reactions based on MWFRS V Brg Wid = 3.5 Min Req = 1.5 (Truss) T Brg Wid = 3.5 Min Req = 1.5 (Truss) N Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings V, T, N, & K are a rigid surface. Members not listed have forces less than 375#

Lumber					
Top chord: 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; 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. Wind loading based on both gable and hip roof types.					

Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	559	-242	G - H	577	-1052
C - D	960	-317	H - I	577	-1052
E - F	568	-1580	I - J	479	-1007
F - G	598	-1342			

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	254	-509	R - Q	1297	-329
U - T	251	-513	Q - P	1089	-251
S - R	1207	-373	P - O	769	-165

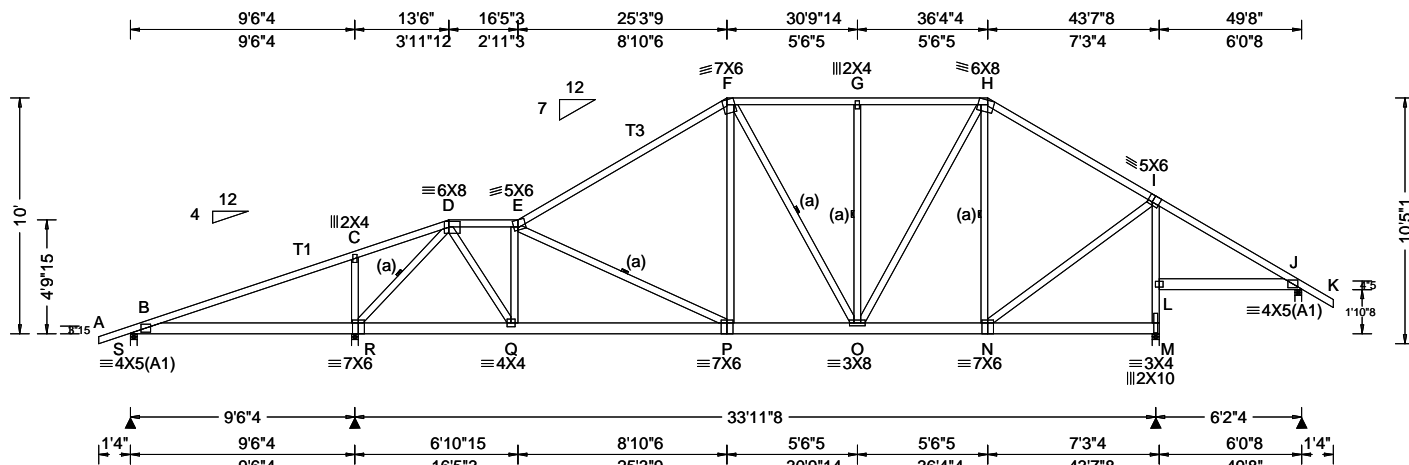
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	290	-594	P - I	568	-236
T - D	614	-1888	I - O	198	-436
D - S	1172	-318	O - J	955	-208
S - E	578	-1541	J - M	474	-1477
G - Q	402	-77	M - N	457	-1556



COA#0-278

03/02/2022

SEQN: 75410 / FROM:	MONO Qty: 1	Job Number: 22-6958 Truntz Truss Label: A09	Cust: R 215 JRef: 1Xd12150012 T32 / DrwNo: 061.22.1523.14294 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.97 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.050 P 999 240 VERT(CL): 0.104 P 999 180 HORZ(LL): 0.013 D - - HORZ(TL): 0.027 D - - Creep Factor: 2.0 Max TC CSI: 0.600 Max BC CSI: 0.183 Max Web CSI: 0.548 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL S 336 - / - / - /167 /44 /297 R 2075 - / - / - /1319 /441 /- M 1618 - / - / - /884 /273 /- J 339 - / - / - /273 /99 /- Wind reactions based on MWFRS S Brg Wid = 3.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 1.7 (Truss) M Brg Wid = 3.5 Min Req = 1.5 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings S, R, M, & J are a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2; T1,T3 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

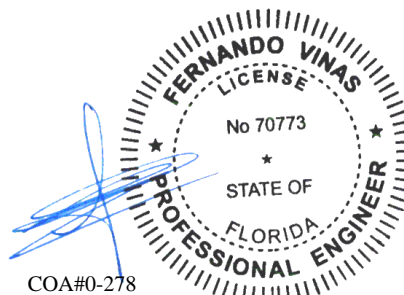
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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COA#0-278

03/02/2022

#### Maximum Top Chord Forces Per Ply (lbs)

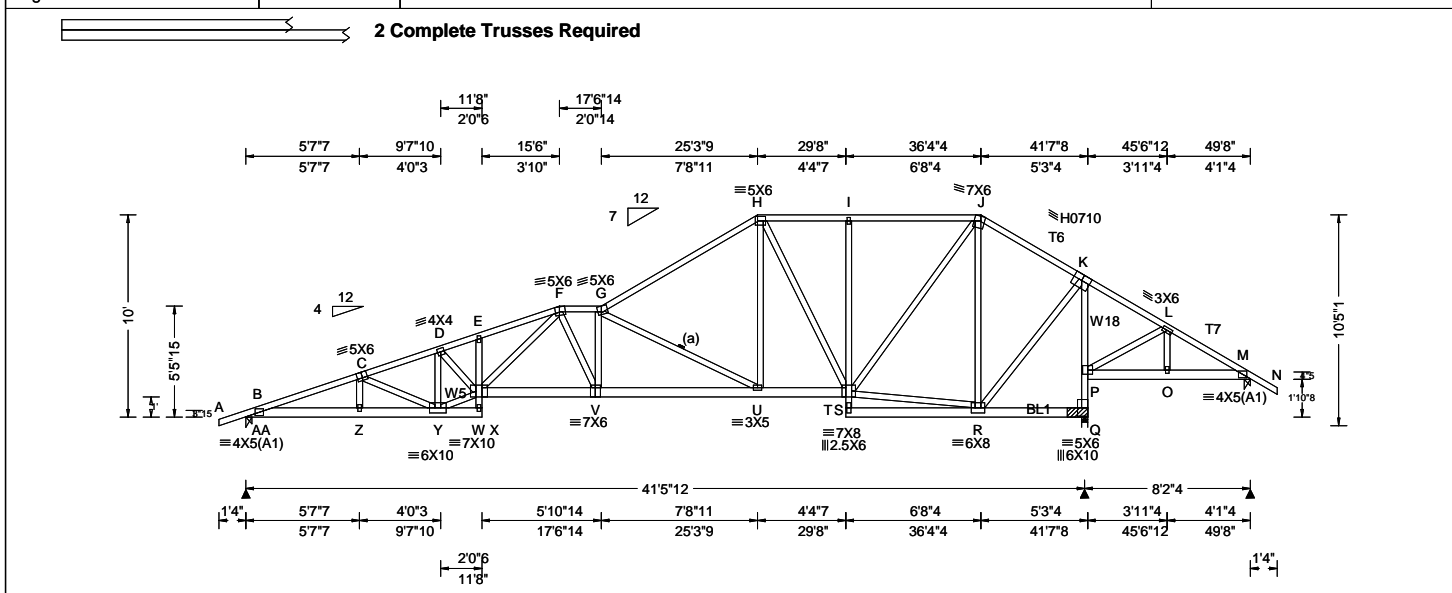
Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	629 -250	F - G	581 -1052
C - D	597 -146	G - H	581 -1052
D - E	503 -1304	H - I	484 -1012
E - F	570 -1445		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	338 -471	O - H	557 -240
R - D	607 -1809	H - N	204 -435
D - Q	1301 -434	N - I	960 -217
Q - E	465 -1018	I - L	474 -1479
F - P	410 -2	L - M	457 -1558

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.251 G 999 240 VERT(CL): 0.505 G 981 180 HORZ(LL): 0.068 R - - HORZ(TL): 0.137 R - - Creep Factor: 2.0 Max TC CSI: 0.632 Max BC CSI: 0.412 Max Web CSI: 0.755  VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL AA 2235 - / - / - / - /428 - / Q 8832 - / - / - / - /1878 - / M 2565 - / - / - / - /632 - / Wind reactions based on MWFRS AA Brg Wid = 3.5 Min Req = 1.5 (Truss) Q Brg Wid = 3.5 Min Req = - M Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings AA, Q, & M are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

<b>Lumber</b> Top chord: 2x4 SP #2; T6, T7 2x4 SP M-31; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W5 2x4 SP #2; W18 2x4 SP M-31;  <b>Bracing</b> (a) Continuous lateral restraint equally spaced on member.  <b>Nailnote</b> Nail Schedule: 0.128"x3", min. nails Top Chord: 1 Row @ 5.50" o.c. Bot Chord: 1 Row @ 12.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	<b>Wind</b> Wind loads and reactions based on MWFRS. Wind loading based on both gable and hip roof types.  <b>Bearing Block(s)</b> Brg blocks: 0.128"x3", min. nails brg x-loc #blocks length/blk #nails/blk wall plate 2 41.333' 1 12" 4 Rigid Surface Brg block to be same size and species as chord. Refer to drawing CNNAILSP1014 for more information.	<b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - Z 2786 -498 U - S 1642 -265 Z - Y 2786 -499 P - O 1251 -313 W - V 2841 -491 O - M 1237 -310 V - U 3043 -519
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<b>Special Loads</b> ----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 61 plf at -1.33 to 61 plf at 17.57 TC: From 63 plf at 17.57 to 63 plf at 36.35 TC: From 563 plf at 36.35 to 563 plf at 47.67 TC: From 63 plf at 47.67 to 63 plf at 51.00 BC: From 4 plf at -1.33 to 4 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 49.67 BC: From 5 plf at 49.67 to 5 plf at 51.00 BC: 2083 lb Conc. Load at 34.65 BC: 1559 lb Conc. Load at 47.54	<b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. Y - D 248 -1314 S - R 1105 -165 Y - W 2968 -524 S - J 765 -151 D - W 1257 -219 R - J 249 -712 W - F 1021 -194 R - K 1981 -295 F - V 440 -55 K - P 780 -3773 V - G 99 -401 P - Q 952 -4502 G - U 288 -1588 P - L 371 -1490 H - U 773 -95 O - L 407 -69
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<b>Plating Notes</b> All plates are 2X4 except as noted.	
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03/02/2022

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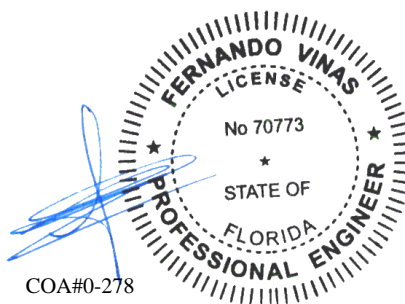
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SEQN: 77324	MONO	Ply: 2	Job Number: 22-6958	Cust: R 215 JRef: 1Xdl2150012 T43
FROM:		Qty: 1	Truntz	DrwNo: 061.22.1531.26817
Page 2 of 2			Truss Label: A10	KD / FV 03/02/2022

#### 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.

WIND LOAD CASE MODIFIED!



03/02/2022

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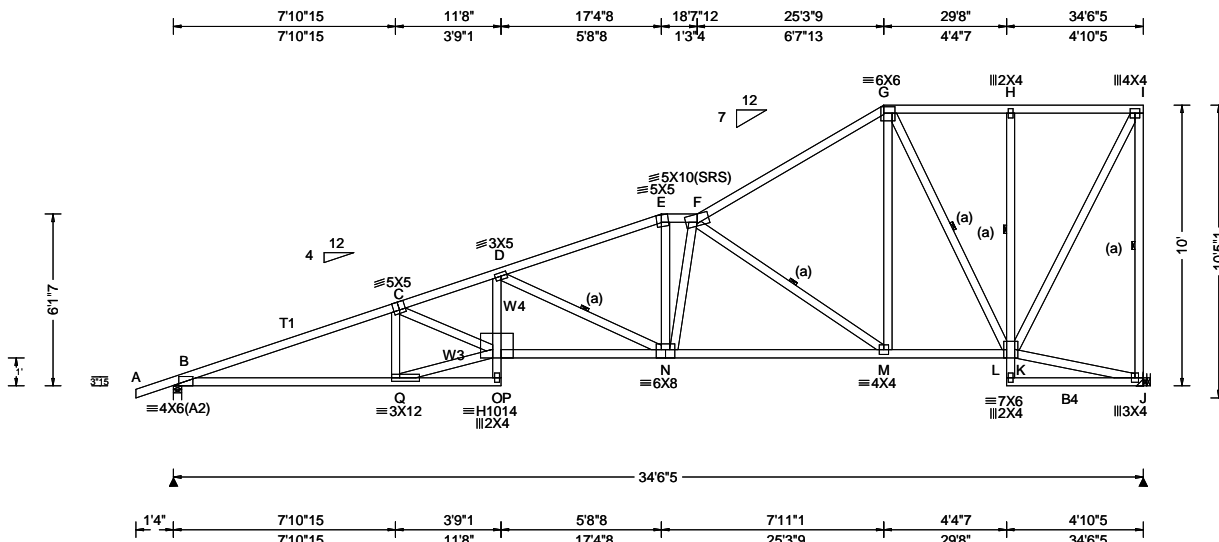
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SEQN: 77078 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A11	Cust: R 215 JRRef: 1XdI2150012 T30 DrwNo: 061.22.1530.40323 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.45 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.244 O 999 240 VERT(CL): 0.493 O 837 180 HORZ(LL): 0.085 J - - HORZ(TL): 0.171 J - - Creep Factor: 2.0 Max TC CSI: 0.580 Max BC CSI: 0.425 Max Web CSI: 0.731 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1500 - / - / - / 968 / 51 / 253 J 1416 - / - / - / 854 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) J Brg Wid = - 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 748 - 3458 F - G 185 - 1406 C - D 1028 - 4142 G - H 79 - 686 D - E 558 - 2717 H - I 79 - 684 E - F 575 - 2547

#### Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;  
Bot chord: 2x4 SP M-31; B4 2x4 SP #2;  
Webs: 2x4 SP #3; W3 2x4 SP #2; W4 2x4 SP M-31;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

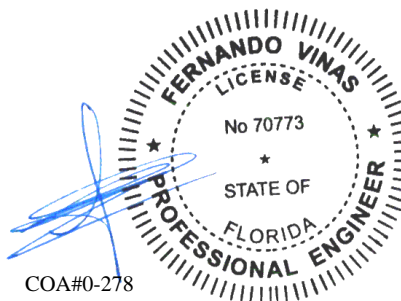
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	3215 - 1028	N - M	2527 - 666
O - N	3913 - 1223	M - K	1127 - 212

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - Q	377 - 880	F - M	571 - 1731
C - O	753 - 212	G - M	1115 - 258
Q - O	3239 - 1034	G - K	282 - 940
O - D	879 - 239	K - I	1419 - 163
D - N	586 - 1543	I - J	129 - 1367
E - N	652 - 63		



COA#0-278

03/02/2022

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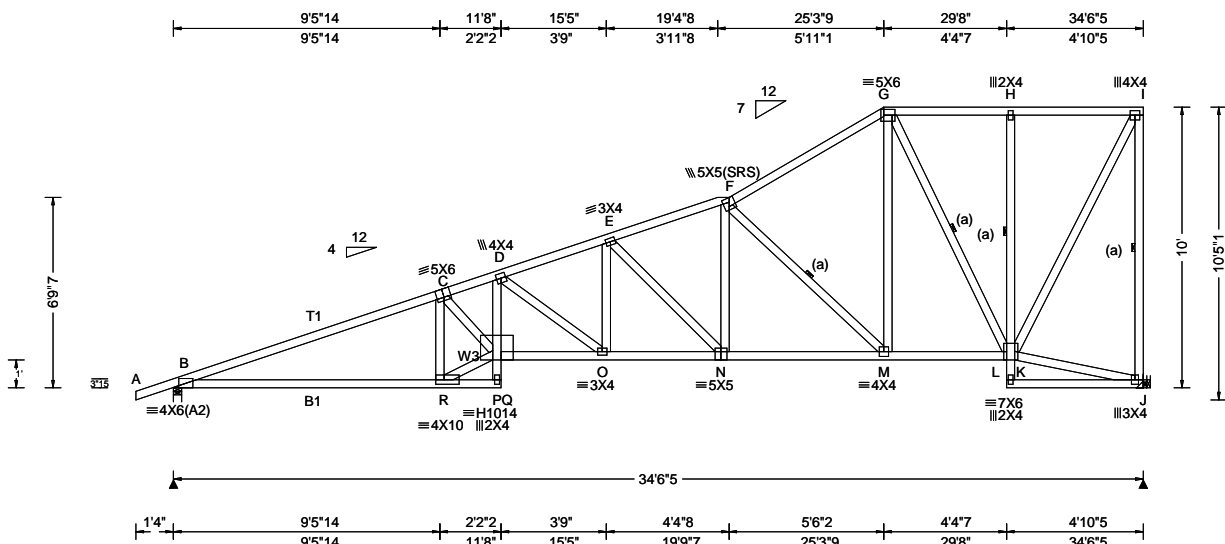
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SEQN: 77085 FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A12	Cust: R 215 JRef: 1Xd12150012 T28 DrwNo: 061.22.1530.38687 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.45 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.242 P 999 240 VERT(CL): 0.492 P 838 180 HORZ(LL): 0.092 J - - HORZ(TL): 0.188 J - - Creep Factor: 2.0 Max TC CSI: 0.799 Max BC CSI: 0.879 Max Web CSI: 0.801 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1499 - / - / /967 /48 /253 J 1415 - / - / /861 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) J Brg Wid = - 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 645 -3363 F - G 182 -1369 C - D 961 -4189 G - H 72 -687 D - E 611 -3080 H - I 72 -685 E - F 409 -2341

#### Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;  
Webs: 2x4 SP #3; W3 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

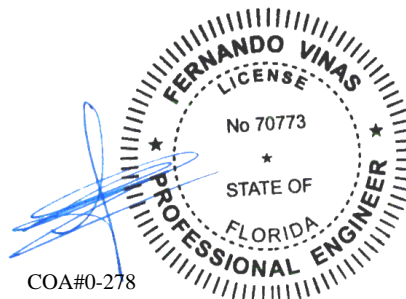
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	3114 -933	N - M	2154 -521
P - O	3904 -1128	M - K	1116 -198
O - N	2855 -776		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	609 -1632	N - F	798 -217
C - P	1170 -294	F - M	461 -1475
R - P	3547 -1058	G - M	1126 -262
P - D	1163 -389	G - K	267 -916
D - O	433 -1281	K - I	1420 -149
O - E	692 -175	I - J	115 -1365
E - N	369 -958		



03/02/2022

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**Plating Notes**  
 All plates are 2X4 except as noted.

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

COA#0-278  
 03/02/2022

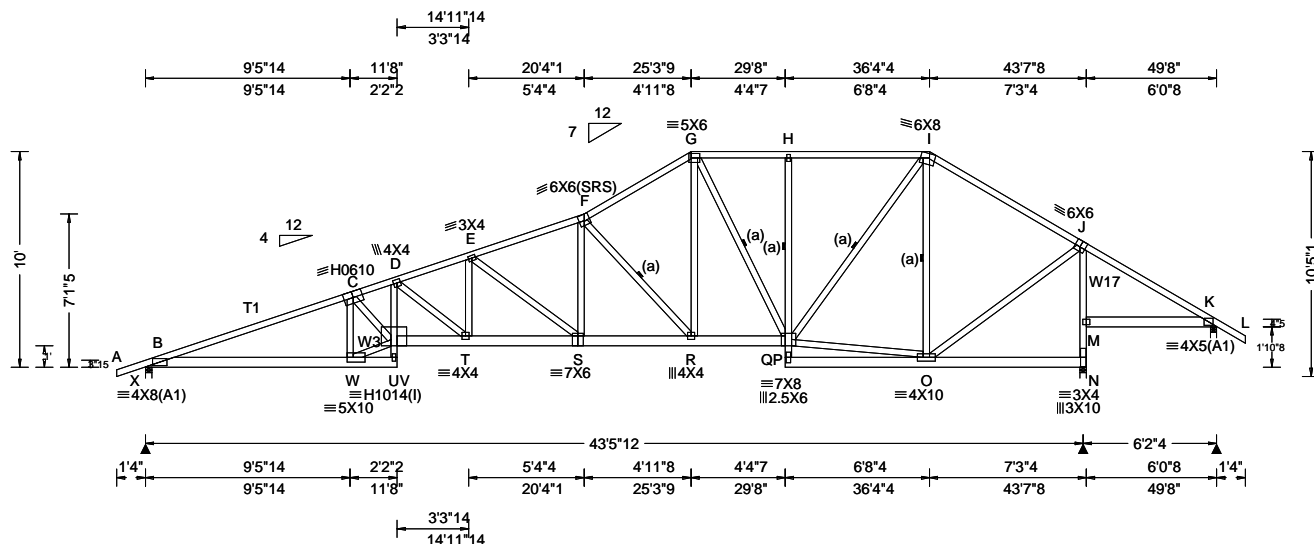
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SEQN: 77091 FROM:	MONO Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: A14	Cust: R 215 JRef: 1Xd12150012 T51 DrwNo: 061.22.1530.19547 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.97 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.335 T 999 240 VERT(CL): 0.665 T 782 180 HORZ(LL): 0.090 O - - HORZ(TL): 0.179 O - - Creep Factor: 2.0 Max TC CSI: 0.834 Max BC CSI: 0.376 Max Web CSI: 0.989 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL X 1877 - / - / - /1215 /159 /295 N 2220 - / - / - /1165 /102 - K 291 - / - / - /237 /70 - Non-Gravity X Brg Wid = 3.5 Min Req = 1.6 (Truss) N Brg Wid = 3.5 Min Req = 1.8 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings X, N, & K are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W3 2x4 SP M-31; W17 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

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

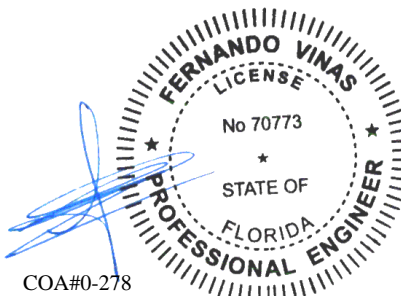
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	1550 - 4637	F - G	1049 - 2658
C - D	2044 - 5746	G - H	891 - 1989
D - E	1696 - 4721	H - I	890 - 1987
E - F	1361 - 3677	I - J	595 - 1405

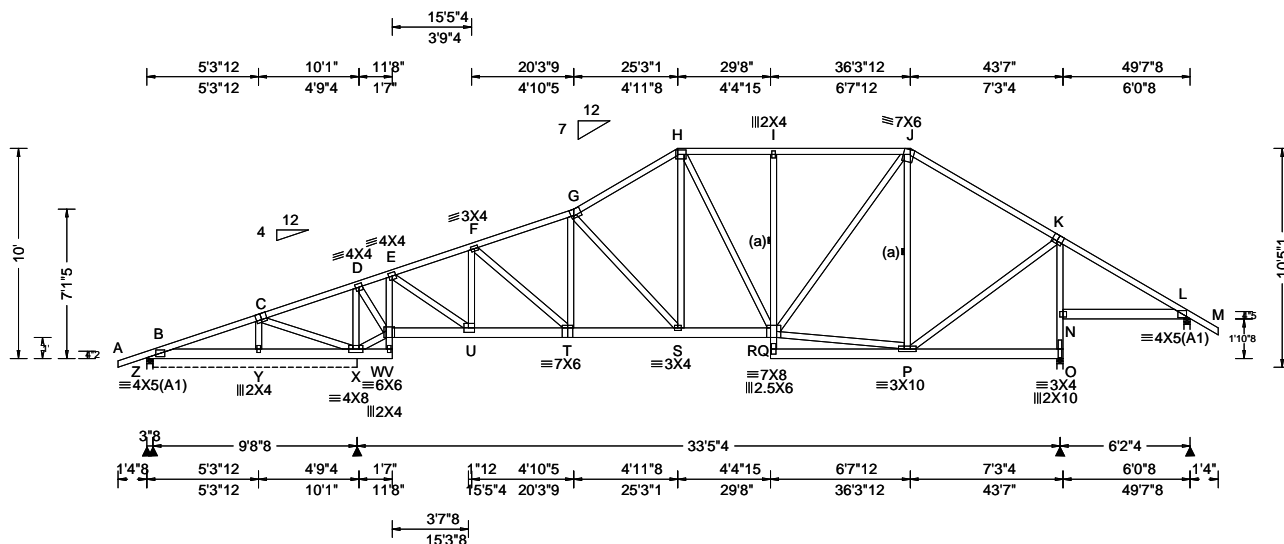
#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - W	844 - 1999	G - R	1461 - 492
C - U	1590 - 560	G - P	139 - 504
W - U	4757 - 1706	P - O	1080 - 279
U - D	1153 - 426	P - I	1449 - 560
D - T	438 - 1218	O - I	381 - 932
T - E	807 - 209	O - J	1504 - 410
E - S	500 - 1244	J - M	665 - 2074
S - F	876 - 258	M - N	644 - 2164
F - R	747 - 1787		

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SEQN: 77094 FROM:	MONO Qty: 1	Job Number: 22-6958 Truntz Truss Label: A15	Cust: R 215 JRRef: 1Xd12150012 T5 DrwNo: 061.22.1530.16950 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.96 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.056 S 999 240 VERT(CL): 0.112 S 999 180 HORZ(LL): 0.016 N - - HORZ(TL): 0.033 N - - Creep Factor: 2.0 Max TC CSI: 0.501 Max BC CSI: 0.083 Max Web CSI: 0.681 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Z 244 -/- /- /117 /53 /294 Z* 222 -/- /- /147 /22 -/- O 1581 -/- /- /870 /41 -/- L 337 -/- /- /271 /52 -/- Wind reactions based on MWFRS Z Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 116 Min Req = - O Brg Wid = 3.5 Min Req = 1.5 (Truss) L Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Z, Z, O, & L are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 5X6 except as noted.

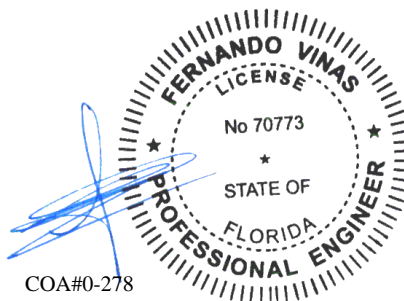
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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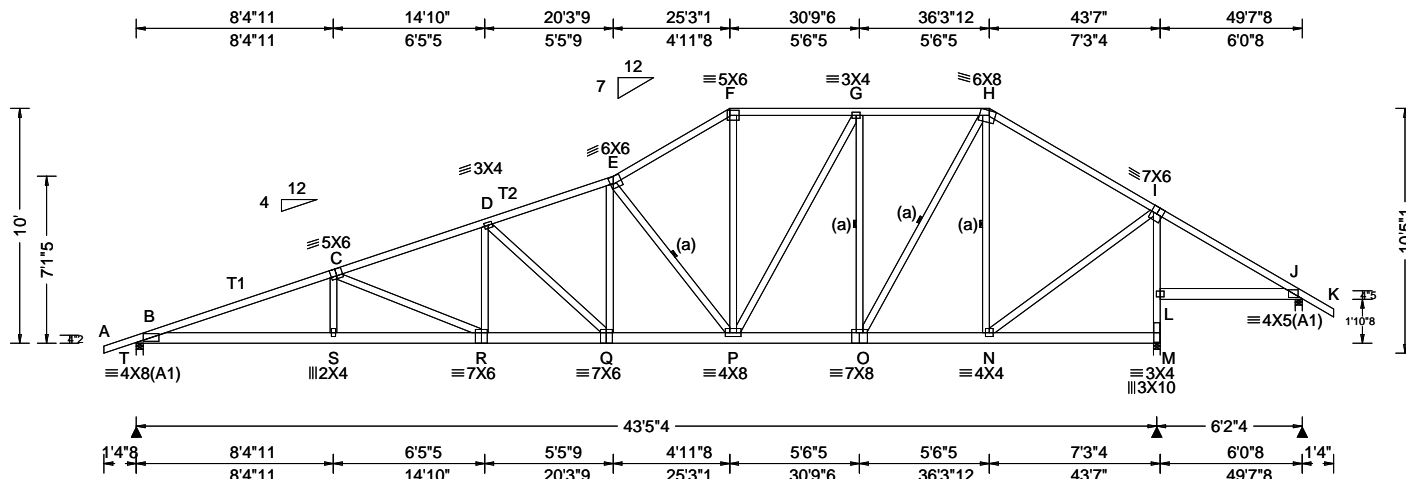
COA#0-278

03/02/2022

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SEQN: 75415 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A16	Cust: R 215 JRef: 1Xdl2150012 T4 / DrwNo: 061.22.1523.13592 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.96 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.217 R 999 240 VERT(CL): 0.440 R 999 180 HORZ(LL): 0.041 N - - HORZ(TL): 0.082 N - - Creep Factor: 2.0 Max TC CSI: 0.548 Max BC CSI: 0.356 Max Web CSI: 0.931 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL T 1851 - / - / - /1220 /160 /294 M 2112 - / - / - /1131 /97 - J 316 - / - / - /254 /61 - Wind reactions based on MWFRS T Brg Wid = 3.5 Min Req = 1.5 (Truss) M Brg Wid = 3.5 Min Req = 1.7 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings T, M, & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Purlins

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

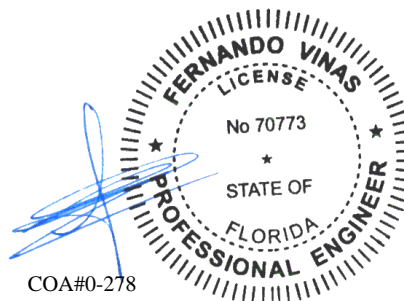
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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#### Maximum Bot Chord Forces Per Ply (lbs)

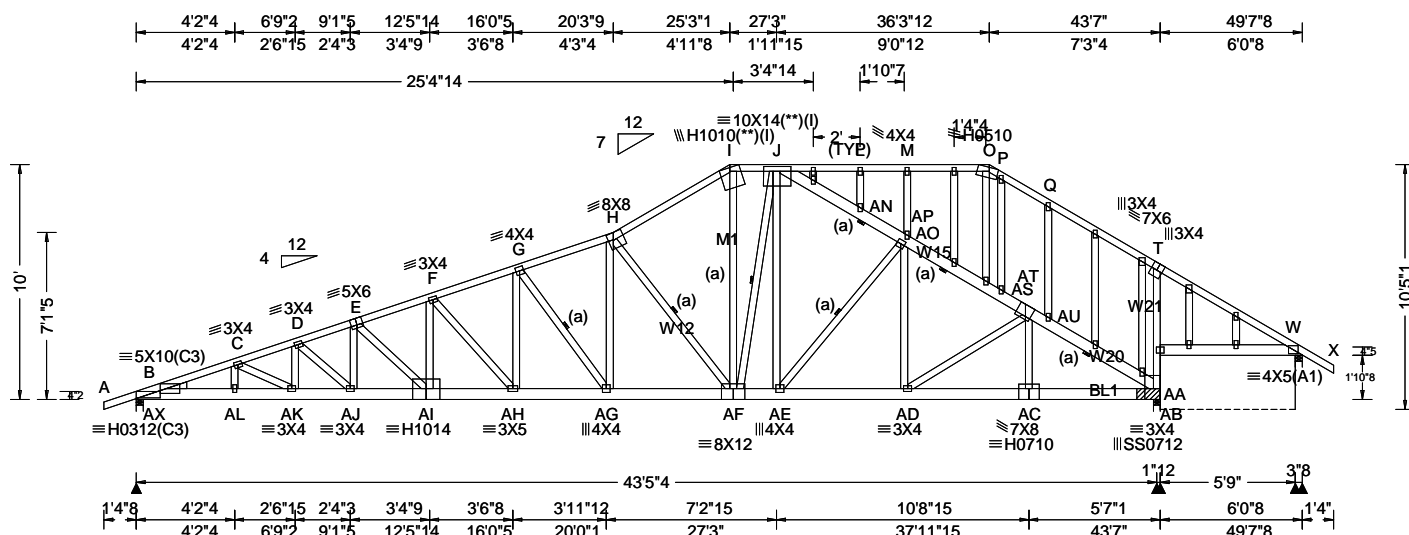
Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	4292 - 1602	Q - P	2804 - 1022
S - R	4285 - 1604	P - O	1631 - 536
R - Q	3467 - 1298	O - N	1083 - 303

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	332 - 872	G - O	461 - 846
R - D	500 - 82	O - H	1074 - 470
D - Q	372 - 882	H - N	316 - 711
Q - E	713 - 206	N - I	1408 - 400
E - P	656 - 1489	I - L	660 - 1970
F - P	783 - 294	L - M	637 - 2054
P - G	595 - 196		

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.96 ft Loc. from endwall: not in 17.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): HS, WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.420 AH 999 240 VERT(CL): 1.015 AH 510 180 HORZ(LL): 0.103 AB - - HORZ(TL): 0.250 AB - - Creep Factor: 2.0 Max TC CSI: 0.888 Max BC CSI: 0.856 Max Web CSI: 0.941 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL AX 4198 - / - /2010 /737 /591 AB 4895 - / - /1861 /946 - AA*109 - / - /83 /25 - W 409 - / - /366 /165 - AA - / -110 Wind reactions based on MWFRS AX Brg Wid = 3.5 Min Req = 3.5 (Truss) AB Brg Wid = 3.5 Min Req = - AA Brg Wid = 69.0 Min Req = - W Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings AX, AB, AA, & W are a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W12, W21 2x4 SP M-31; W15,  
W20 2x6 SP 2400f-2.0E; M1 2x4 SP #2;  
Lt Wedge: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

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

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

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Bearing Block(s)

Brg blocks: 0.128"x3", min. nails  
brg x-loc #blocks length/blk #nails/blk wall plate  
2 43.292' 1 12" 6 Rigid Surface  
Brg block to be same size and species as chord.  
Refer to drawing CENAILSP1014 for more information.

#### Maximum Top Chord Forces Per Ply (lbs)

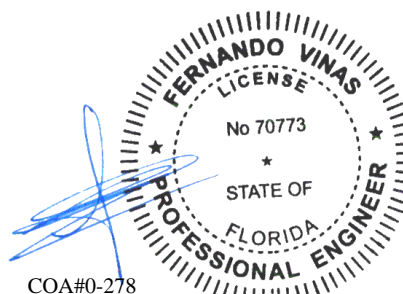
Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	2681 - 10992	I - J	1046 - 5087
C - D	2644 - 11014	J - L	564 - 258
D - E	2470 - 10510	L - M	559 - 261
E - F	2219 - 9784	M - O	555 - 264
F - G	1924 - 8861	O - P	589 - 293
G - H	1587 - 7792	P - Q	555 - 278
H - I	1084 - 6108	Q - T	458 - 264

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - AL	10361 - 2809	AG - AF	7233 - 1263
AL - AK	10387 - 2817	AF - AE	4910 - 388
AK - AJ	10380 - 2680	AE - AD	5971 - 219
AJ - AI	9879 - 2436	AD - AC	6287 - 283
AI - AH	9169 - 2111	AC - AB	6287 - 283
AH - AG	8266 - 1725		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - AJ	322 - 654	AF - J	930 - 616
AJ - E	487 - 197	J - AE	1305 - 0
E - AI	443 - 958	J - AO	580 - 6058
AI - F	736 - 289	AE - AO	0 - 1668
F - AH	578 - 1338	AO - AT	473 - 7163
AH - G	1078 - 405	AT - AB	509 - 7686
G - AG	765 - 1706	AB - AA	1088 - 744
AG - H	1418 - 591	AA - T	258 - 1085
H - AF	1261 - 3601		



COA#0-278

03/02/2022

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SEQN: 75416 /	GABL	Ply: 1	Job Number: 22-6958	Cust: R 215 JRef: 1Xdl2150012 T15 /
FROM:		Qty: 1	Truntz	DrwNo: 061.22.1523.14122
Page 2 of 2			Truss Label: A17	KD / YK 03/02/2022

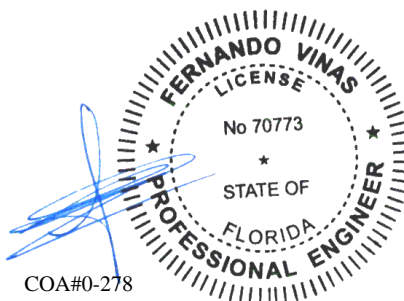
#### Additional Notes

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

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.

#### Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
I - AF	2064	-305	AS- P	104	-382
AN- L	0	-413	AU- Q	221	-526
AP- M	0	-754			



COA#0-278

03/02/2022

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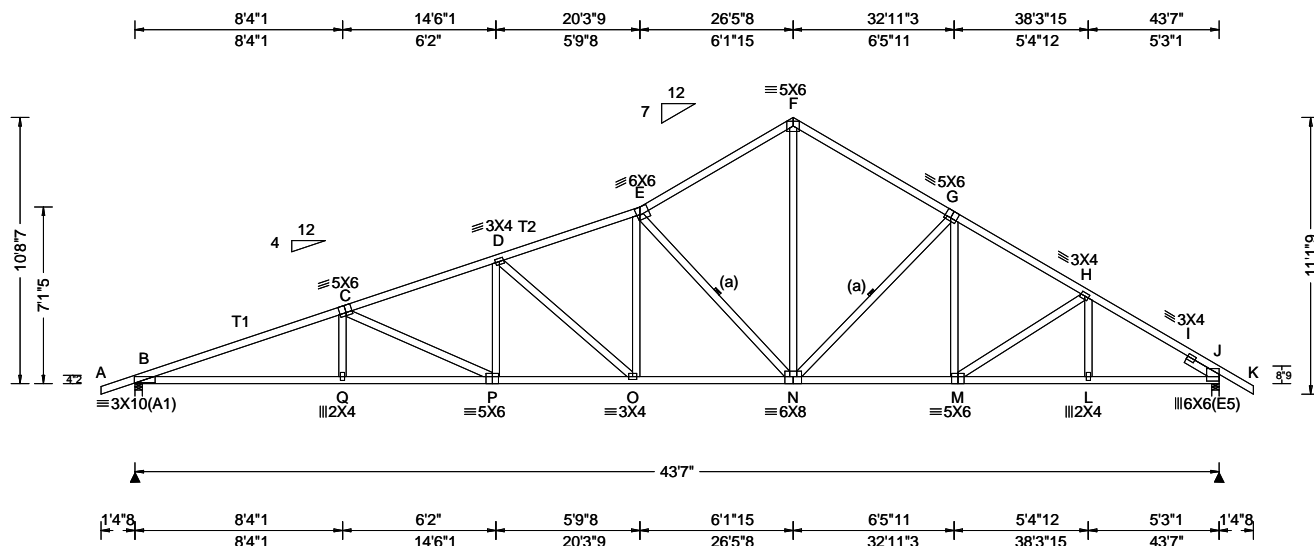
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75417 / FROM:	MONO Qty: 2	Ply: 1	Job Number: 22-6958 Truntz Truss Label: A18	Cust: R 215 JRef: 1XdI2150012 T20 / DrwNo: 061.22.1523.13060 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.302 P 999 240 VERT(CL): 0.582 P 896 180 HORZ(LL): 0.088 J - - HORZ(TL): 0.169 J - - Creep Factor: 2.0 Max TC CSI: 0.559 Max BC CSI: 0.488 Max Web CSI: 0.901 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1954 - / - / - / 1188 / 86 / 313 J 2014 - / - / - / 1089 / 74 / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.6 (Truss) J Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1202 - 4788 F - G 628 - 2379 C - D 1029 - 4043 G - H 607 - 2875 D - E 855 - 3347 H - I 571 - 3104 E - F 645 - 2371 I - J 566 - 3150

#### Lumber

Top chord: 2x4 SP #2; T1, T2 2x4 SP M-31;  
Bot chord: 2x4 SP M-31;  
Webs: 2x4 SP #3;  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

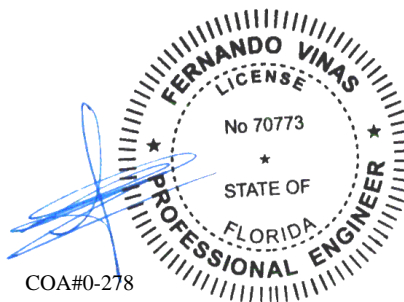
#### Loading

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

#### Wind

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

Wind loading based on both gable and hip roof types.



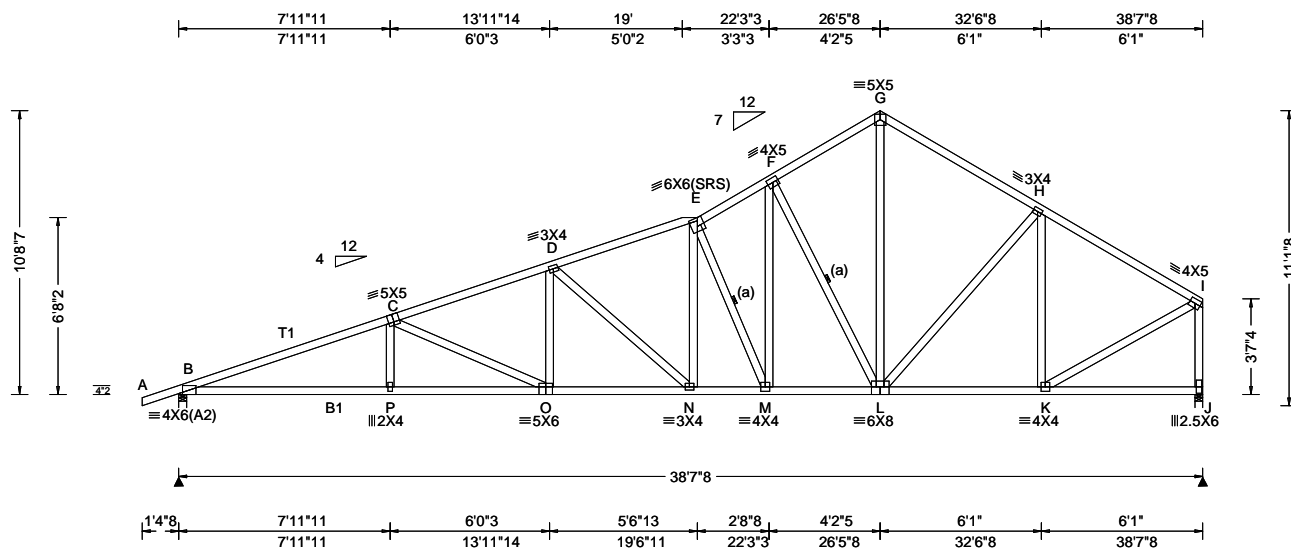
COA#0-278

03/02/2022

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**ALPINE**  
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6750 Forum Drive  
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Orlando FL, 32821

SEQN: 75418 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A19	Cust: R 215 JRef: 1Xdl2150012 T39 / DrwNo: 061.22.1523.13561 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.86 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.226 O 999 240 VERT(CL): 0.461 O 999 180 HORZ(LL): 0.060 J - - HORZ(TL): 0.122 J - - Creep Factor: 2.0 Max TC CSI: 0.495 Max BC CSI: 0.717 Max Web CSI: 0.801  VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1671 - / - / /1060 /328 /277 J 1587 - / - / /852 /297 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 J Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1014 -3954 F - G 493 -1543 C - D 850 -3231 G - H 461 -1592 D - E 685 -2553 H - I 328 -1490 E - F 633 -2195

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

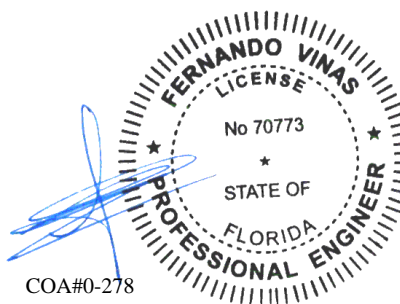
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	3683 -1090	N - M	2355 -588
P - O	3678 -1092	M - L	1864 -429
O - N	2986 -833	L - K	1234 -240

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	287 -741	F - L	425 -1263
O - D	467 -67	G - L	1179 -331
D - N	353 -822	H - K	198 -533
N - E	641 -195	K - I	1374 -264
E - M	399 -1224	I - J	323 -1537
M - F	1189 -341		



COA#0-278

03/02/2022

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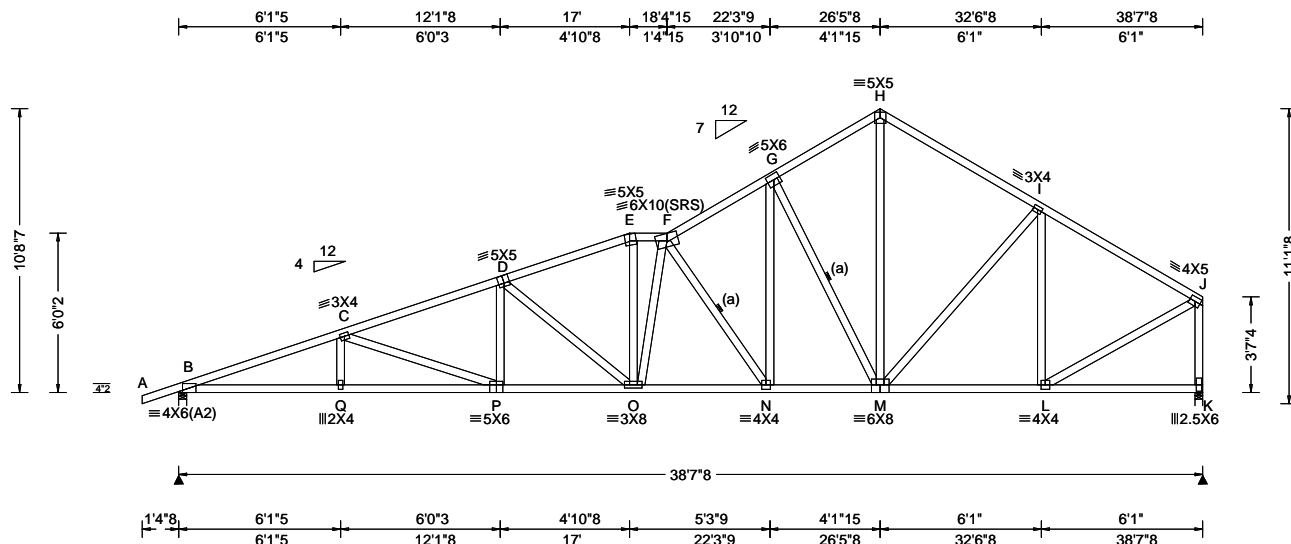
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SEQN: 75419 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A20	Cust: R 215 JRef: 1XdI2150012 T21 / DrwNo: 061.22.1523.13404 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.86 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.232 P 999 240 VERT(CL): 0.473 P 976 180 HORZ(LL): 0.053 K - - HORZ(TL): 0.108 K - - Creep Factor: 2.0 Max TC CSI: 0.588 Max BC CSI: 0.429 Max Web CSI: 0.723 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1673 - / - / /1054 /336 /277 K 1588 - / - / /848 /306 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1096 -4069 F - G 657 -2248 C - D 953 -3453 G - H 505 -1547 D - E 798 -2805 H - I 469 -1593 E - F 785 -2628 I - J 344 -1491

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

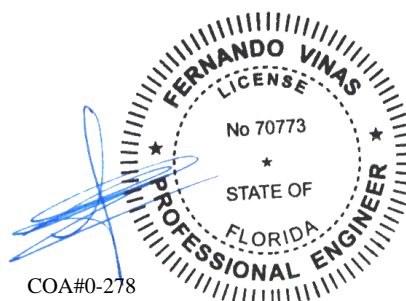
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	3808 -1171	O - N	2647 -725
Q - P	3804 -1175	N - M	1864 -440
P - O	3202 -948	M - L	1235 -244

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	248 -620	G - M	440 -1273
P - D	395 -36	H - M	1189 -348
D - O	320 -771	I - L	202 -534
E - O	682 -144	L - J	1375 -269
F - N	501 -1369	J - K	353 -1538
N - G	1224 -373		



COA#0-278

03/02/2022

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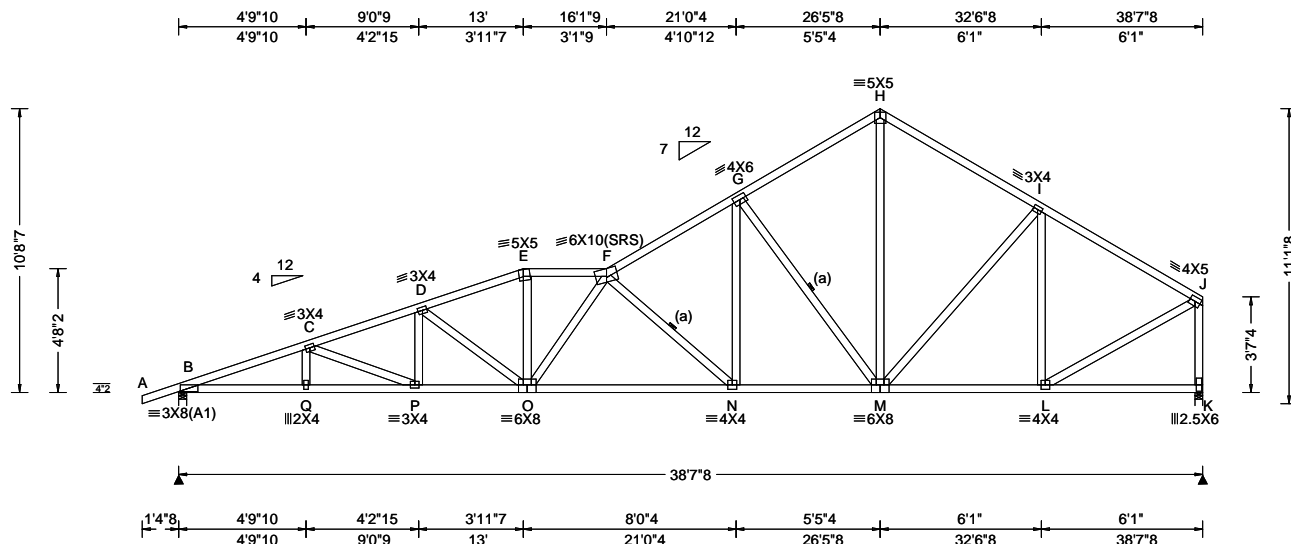
For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



COA#0-278

03/02/2022

SEQN: 75421 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A22	Cust: R 215 JRef: 1XdI2150012 T55 / DrwNo: 061.22.1523.12670 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.86 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.249 F 999 240 VERT(CL): 0.508 F 909 180 HORZ(LL): 0.055 K - - HORZ(TL): 0.112 K - - Creep Factor: 2.0 Max TC CSI: 0.492 Max BC CSI: 0.433 Max Web CSI: 0.706 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1677 - / - / - /1042 /336 /279 K 1591 - / - / - /844 /306 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1067 -4081 F - G 664 -2554 C - D 1010 -3775 G - H 495 -1579 D - E 883 -3298 H - I 494 -1597 E - F 864 -3117 I - J 367 -1494

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

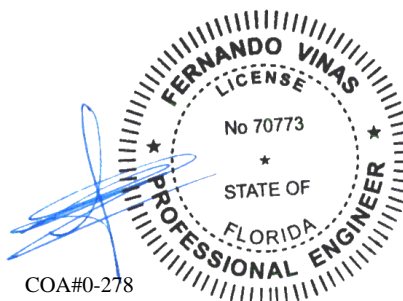
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	3824 -1142	O - N	3367 -870
Q - P	3824 -1146	N - M	2111 -469
P - O	3531 -1024	M - L	1237 -255

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - O	258 -558	G - M	428 -1382
E - O	839 -145	H - M	1162 -340
O - F	175 -444	I - L	205 -534
F - N	575 -1657	L - J	1378 -277
N - G	1260 -318	J - K	376 -1541



COA#0-278

03/02/2022

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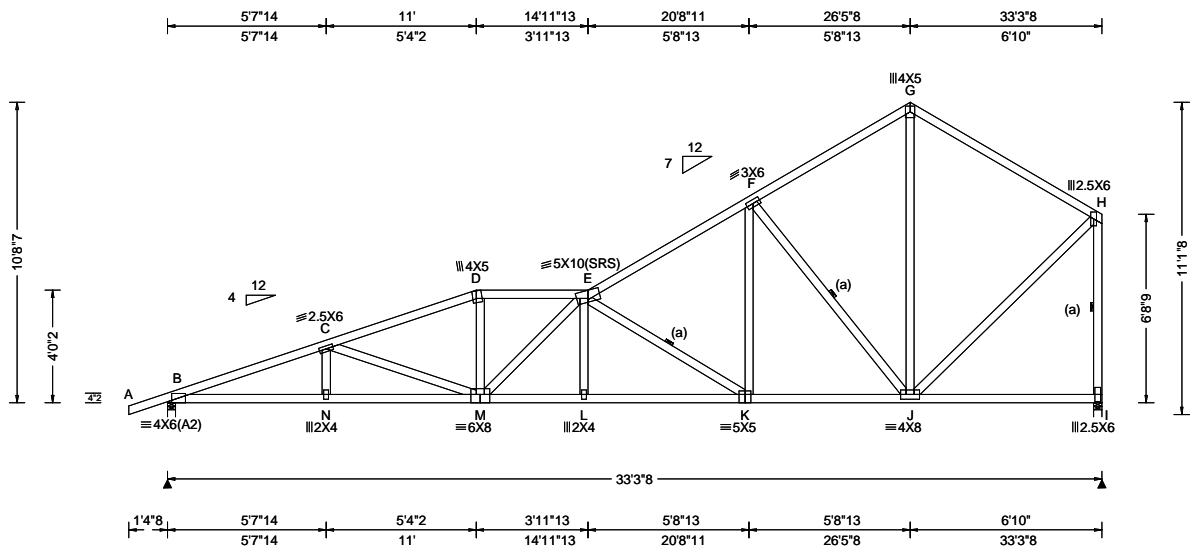
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**ALPINE**  
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SEQN: 75470 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A23	Cust: R 215 JRef: 1Xd12150012 T50 / DrwNo: 061.22.1523.14216 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.33 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.193 L 999 240 VERT(CL): 0.393 L 999 180 HORZ(LL): -0.057 G - - HORZ(TL): 0.117 G - - Creep Factor: 2.0 Max TC CSI: 0.802 Max BC CSI: 0.367 Max Web CSI: 0.547 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1458 - / - / - /897 /276 /271 I 1369 - / - / - /786 /281 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 973 -3453 E - F 485 -1891 C - D 851 -2887 F - G 306 -947 D - E 842 -2714 G - H 287 -954

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

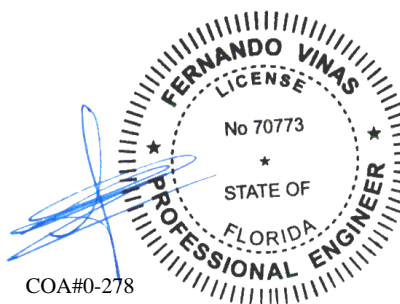
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - N	3229 -1108	L - K	3028 -948
N - M	3230 -1107	K - J	1528 -433
M - L	3031 -946		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - M	236 -572	F - J	418 -1252
D - M	613 -67	G - J	499 -93
M - E	113 -441	J - H	1022 -236
E - K	647 -1760	H - I	370 -1314
K - F	1088 -304		



COA#0-278

03/02/2022

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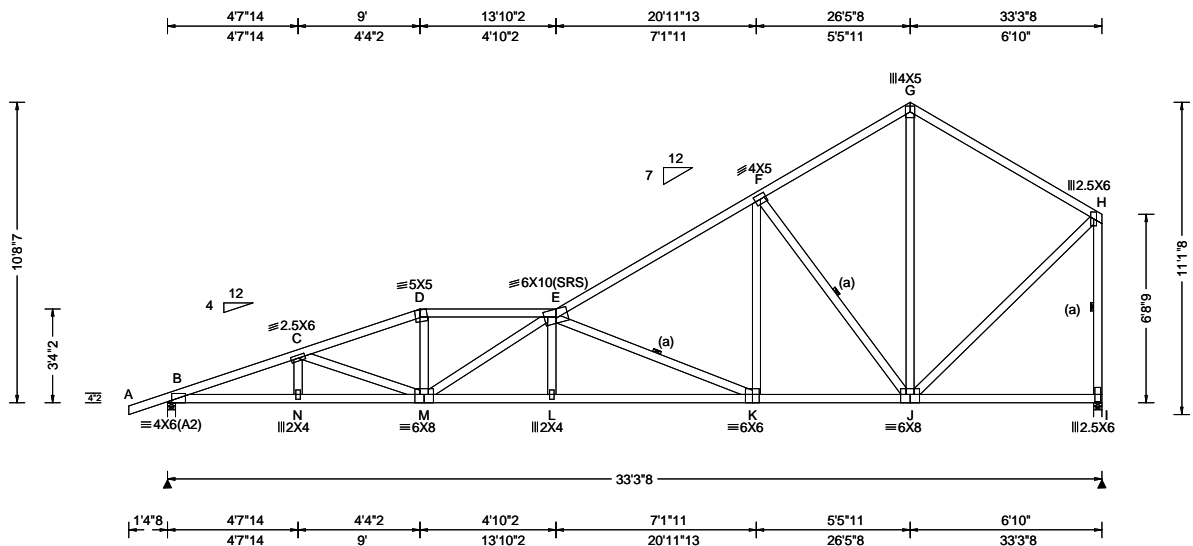
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SEQN: 75423 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A24	Cust: R 215 JRef: 1Xdl2150012 T61 / DrwNo: 061.22.1523.13623 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.33 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.269 L 999 240 VERT(CL): 0.549 L 724 180 HORZ(LL): -0.073 G - - HORZ(TL): 0.148 G - - Creep Factor: 2.0 Max TC CSI: 0.822 Max BC CSI: 0.957 Max Web CSI: 0.801 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1459 -/- /- /891 /276 /272 I 1370 -/- /- /787 /281 -/ Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.7 (Truss) I Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings B & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 983 -3460 E - F 471 -1878 C - D 899 -3107 F - G 316 -948 D - E 889 -2946 G - H 292 -953

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

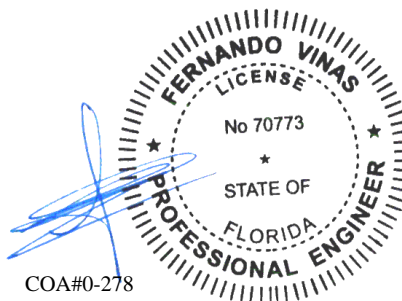
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - N	3237 -1117	L - K	3653 -1151
N - M	3238 -1115	K - J	1496 -433
M - L	3659 -1147		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - M	693 -74	F - J	430 -1258
M - E	205 -849	G - J	507 -111
E - K	775 -2317	J - H	1019 -240
K - F	1055 -249	H - I	377 -1313



COA#0-278

03/02/2022

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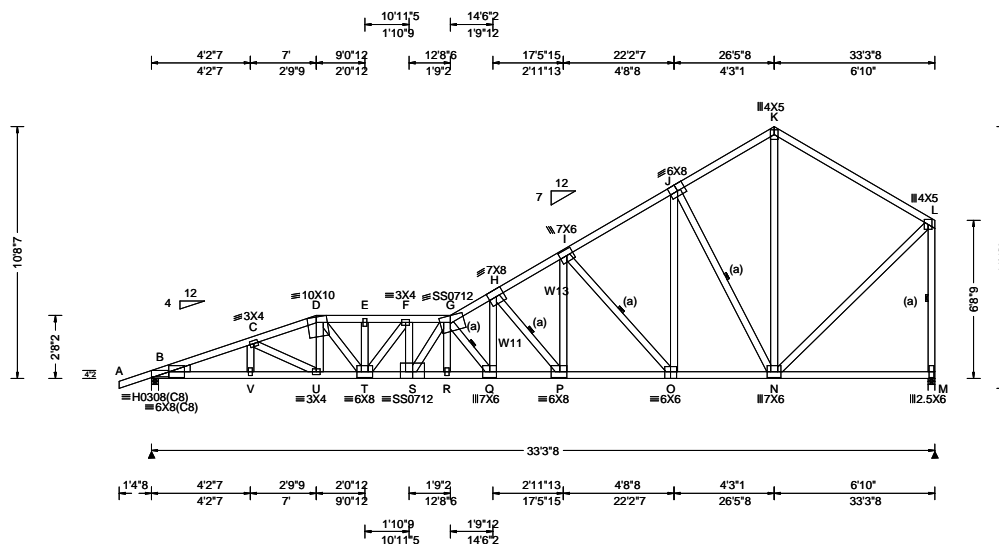
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6750 Forum Drive  
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Orlando FL, 32821

SEQN: 422337 FROM:	SPEC Qty: 1	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A25	Cust: R 215 JRRef: 1Xdl1250012 T9 DrwNo: 061.22.1530.12033 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.33 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): HS, WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.500 G 795 240 VERT(CL): 0.979 G 406 180 HORZ(LL): -0.152 K - - HORZ(TL): 0.297 K - - Creep Factor: 2.0 Max TC CSI: 0.519 Max BC CSI: 0.932 Max Web CSI: 0.834 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2929 -/- /- /- /580 -/ M 1861 -/- /- /- /350 -/ Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.4 M Brg Wid = 3.5 Min Req = 1.5 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP M-31;  
Bot chord: 2x4 SP M-31;  
Webs: 2x4 SP #3; W11, W13 2x4 SP #2;  
Lt Wedge: 2x4 SP #3;

#### Additional Notes

The overall height of this truss excluding overhang is 10-8-7.

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Special Loads

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

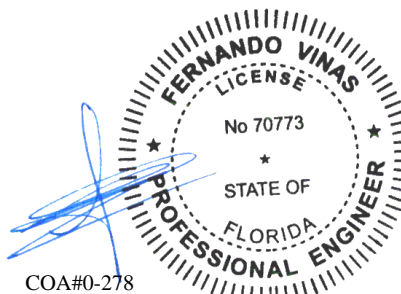
TC: From 61 plf at -1.38 to 7.00	61 plf at 7.00
TC: From 31 plf at 7.00 to 9.06	31 plf at 9.06
TC: From 61 plf at 9.06 to 12.70	61 plf at 12.70
TC: From 63 plf at 12.70 to 33.29	63 plf at 33.29
BC: From 4 plf at -1.38 to 0.00	4 plf at 0.00
BC: From 20 plf at 0.00 to 7.03	20 plf at 7.03
BC: From 10 plf at 7.03 to 11.09	10 plf at 11.09
BC: From 20 plf at 11.09 to 33.29	20 plf at 33.29
TC: 40 lb Conc. Load at 7.03	
BC: 592 lb Conc. Load at 7.03	
BC: 1430 lb Conc. Load at 9.06	

#### Plating Notes

All plates are 2X4 except as noted.

#### Wind

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



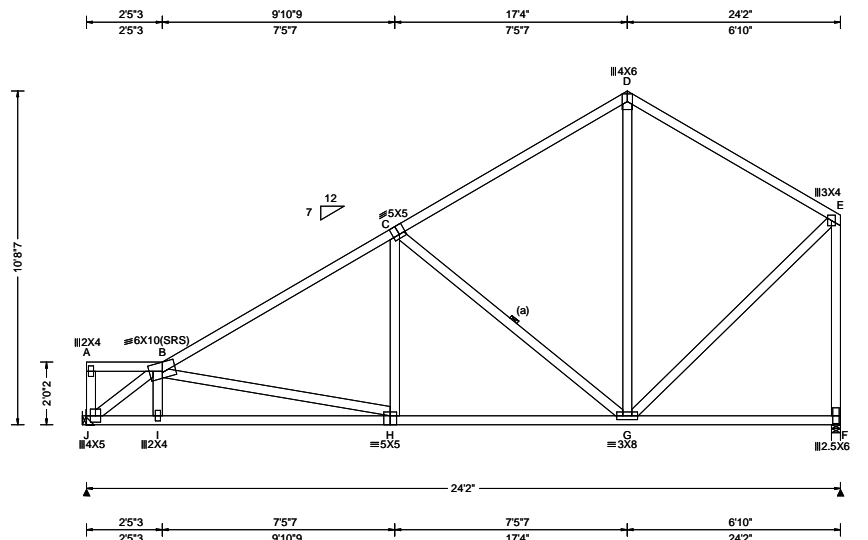
COA#0-278

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**ALPINE**  
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6750 Forum Drive  
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SEQN: 75474 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A26	Cust: R 215 JRef: 1XdI2150012 T64 / DrwNo: 061.22.1523.13997 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.48 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.040 H 999 240 VERT(CL): 0.084 H 999 180 HORZ(LL): 0.016 G - - HORZ(TL): 0.034 G - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.603 Max Web CSI: 0.793  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J 1005 - / - /575 /169 /225 F 1005 - / - /576 /223 - Wind reactions based on MWFRS J Brg Wid = - Min Req = - F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing F is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 252 - 1306 D - E 208 - 679 C - D 219 - 714

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

End verticals not exposed to wind pressure.

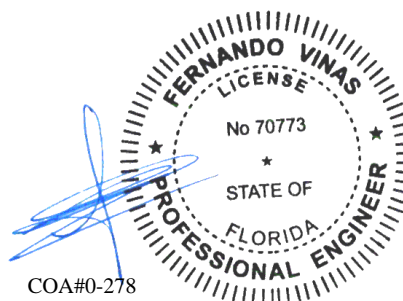
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	1319 - 430	H - G	1039 - 310
I - H	1310 - 436		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
J - B	309 - 1605	G - E	699 - 143
C - G	267 - 685	E - F	266 - 951



COA#0-278

03/02/2022

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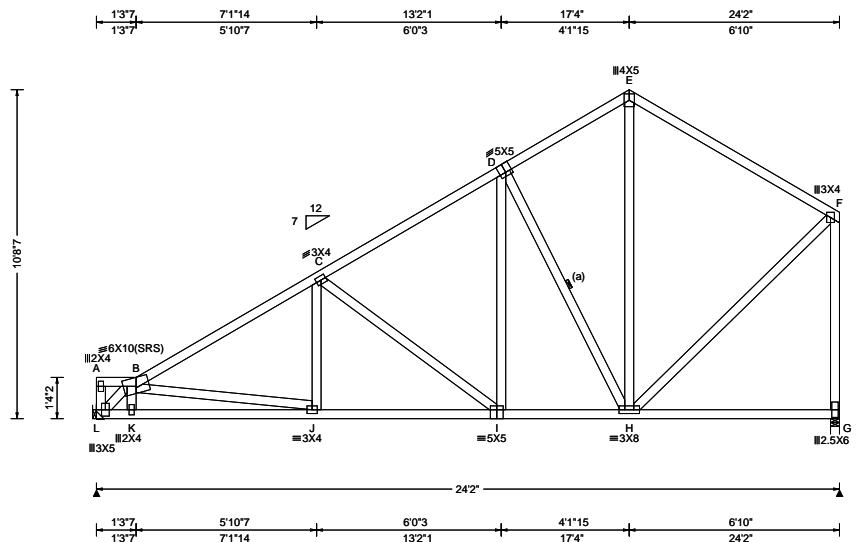
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SEQN: 75478 / FROM:	SPEC Qty: 1	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A27	Cust: R 215 JRef: 1XdI2150012 T65 / DrwNo: 061.22.1523.13014 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.15 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.039 J 999 240 VERT(CL): 0.081 J 999 180 HORZ(LL): 0.015 C - - HORZ(TL): 0.031 C - - Creep Factor: 2.0 Max TC CSI: 0.764 Max BC CSI: 0.467 Max Web CSI: 0.791  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1005 - / - /591 /161 /241 G 1005 - / - /578 /219 - Wind reactions based on MWFRS L Brg Wid = - Min Req = - G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing G is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 403 -1469 D - E 327 -633 C - D 358 -1009 E - F 282 -675

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

End verticals not exposed to wind pressure.

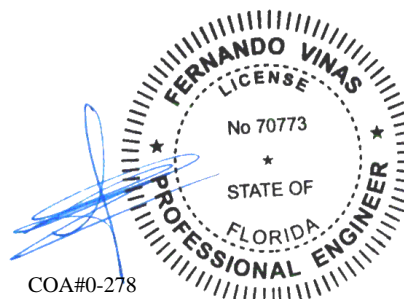
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	1191 -530	J - I	1200 -506
K - J	1182 -539	I - H	767 -281

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	384 -1523	D - H	289 -579
C - I	280 -534	H - F	690 -208
I - D	413 -127	F - G	375 -948



COA#0-278

03/02/2022

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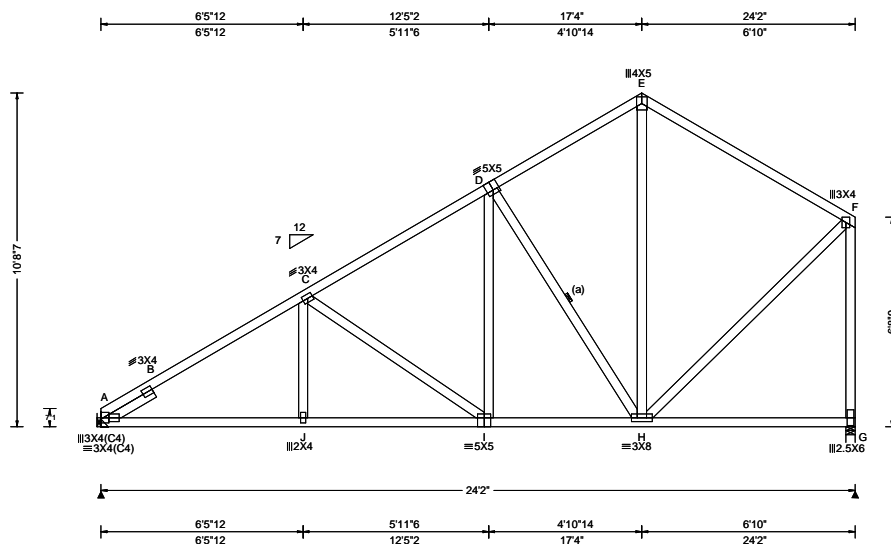
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75484 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A28	Cust: R 215 JRef: 1Xdl2150012 T66 / DrwNo: 061.22.1523.13747 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.048 B 999 240 VERT(CL): 0.100 B 999 180 HORZ(LL): 0.030 B - - HORZ(TL): 0.063 B - - Creep Factor: 2.0 Max TC CSI: 0.757 Max BC CSI: 0.481 Max Web CSI: 0.787  VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 1010 - / - /614 /158 /260 G 1000 - / - /575 /215 - / - Wind reactions based on MWFRS A Brg Wid = - Min Req = - G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing G is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 545 -1668 D - E 318 -645 B - C 402 -1478 E - F 279 -672 C - D 359 -1055

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.814'

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

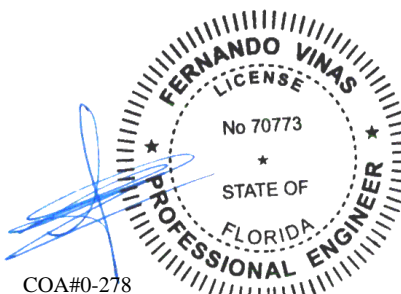
Chords Tens.Comp. Chords Tens. Comp.

A - J 1224 -515 I - H 811 -302  
J - I 1221 -516

#### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

C - I 259 -491 H - F 687 -205  
I - D 397 -100 F - G 371 -944  
D - H 287 -576



03/02/2022

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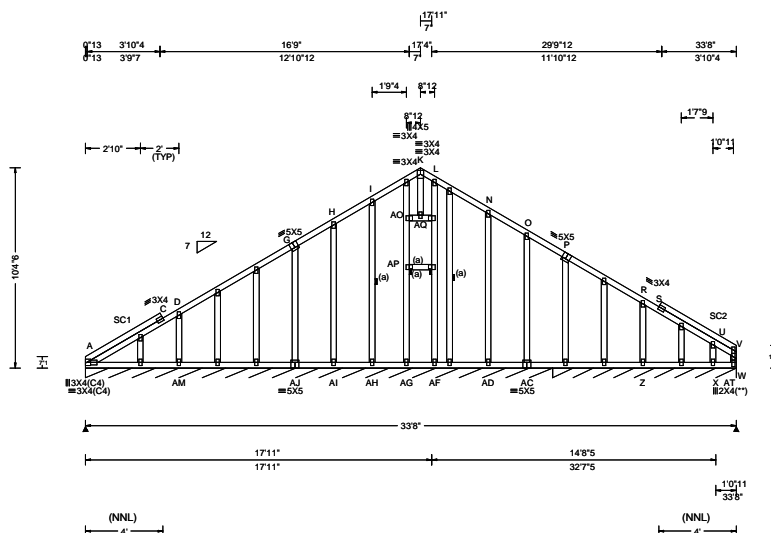
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75427 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: A29	Cust: R 215 JRef: 1Xdl2150012 T17 / DrwNo: 061.22.1523.12825 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.37 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.012 K 999 240 VERT(CL): 0.013 S 999 180 HORZ(LL): 0.021 S - - HORZ(TL): 0.030 S - - Creep Factor: 2.0 Max TC CSI: 0.904 Max BC CSI: 0.218 Max Web CSI: 0.444  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A* 199 - / - /112 /55 /35 AT* 181 - / - /99 /60 - / - Wind reactions based on MWFRS A Brg Wid = 289 Min Req = - AT Brg Wid = 114 Min Req = - Bearings A & AB 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 - C 411 -527 I - K 728 -242 C - D 637 -668 K - L 691 -175 D - G 502 -553 L - N 752 -185 G - H 483 -308 N - O 541 -130 H - I 603 -274 O - P 425 -94

**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;

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

**Plating Notes**  
All plates are 2X4 except as noted.  
(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

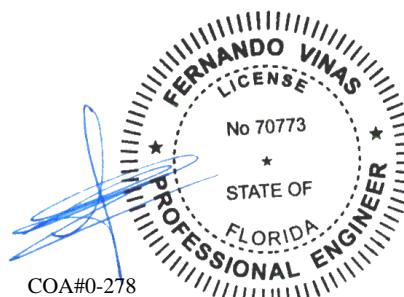
**Loading**  
Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

**Additional Notes**  
See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.  
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
A - AM 765 -572 AM - AJ 771 -588

Maximum Gable Forces Per Ply (lbs)
Gables Tens.Comp. Gables Tens. Comp.
D - AM 428 -477 AP - AG 115 -384
G - AJ 221 -380 K - AQ 92 -385
H - AI 203 -418 AD - N 223 -436
I - AH 217 -419 AC - O 195 -401
AO - AP 115 -384 Z - R 294 -490

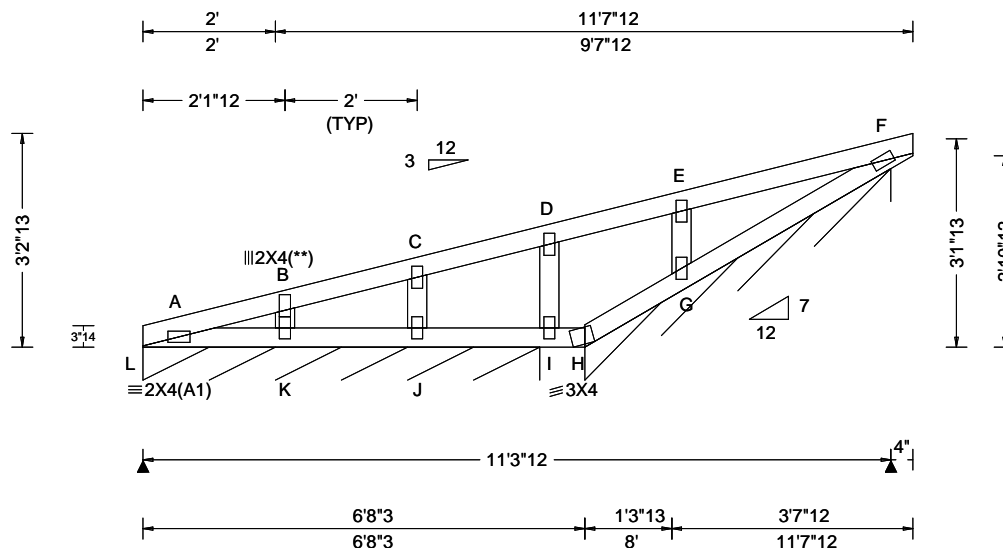


COA#0-278  
03/02/2022

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**ALPINE**  
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75642 / FROM:	GABL Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: A30	Cust: R 215 JRef: 1Xdl2150012 T41 / DrwNo: 061.22.1523.13091 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.28 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 F 999 240 VERT(CL): 0.010 F 999 180 HORZ(LL): -0.004 F - - HORZ(TL): 0.006 F - - Creep Factor: 2.0 Max TC CSI: 0.267 Max BC CSI: 0.157 Max Web CSI: 0.105 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L* 135 - / - /60 /69 /51 H* 186 - / - /85 /102 - /- Wind reactions based on MWFRS L Brg Wid = 72.0 Min Req = - H Brg Wid = 55.6 Min Req = - Bearings L & H are a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. E - G 351 -403

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

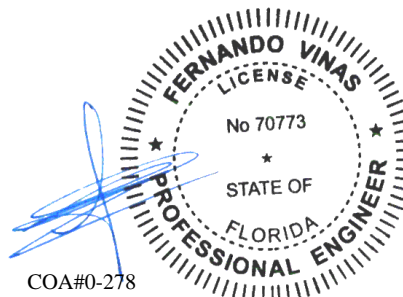
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

Shim all supports to solid bearing.



COA#0-278

03/02/2022

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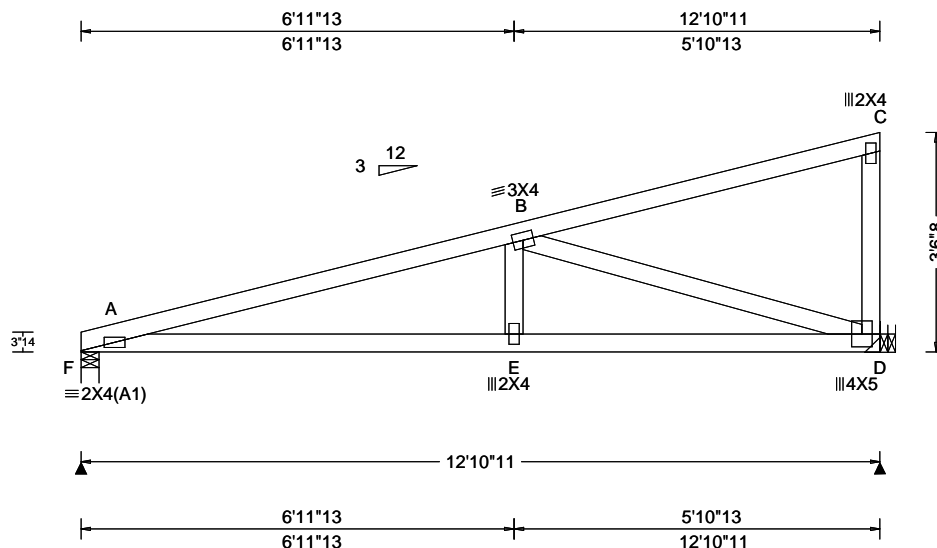
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75429 / FROM:	MONO Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: A31	Cust: R 215 JRef: 1Xd12150012 T6 DrwNo: 061.22.1523.13170 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.43 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.039 E 999 240 VERT(CL): 0.079 E 999 180 HORZ(LL): 0.011 D - - HORZ(TL): 0.022 D - - Creep Factor: 2.0 Max TC CSI: 0.616 Max BC CSI: 0.587 Max Web CSI: 0.782 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL F 525 - / - / - /271 /94 /114 D 514 - / - / - /266 /122 - / - Non-Gravity Wind reactions based on MWFRS F Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = - Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. A - B 486 - 1164

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

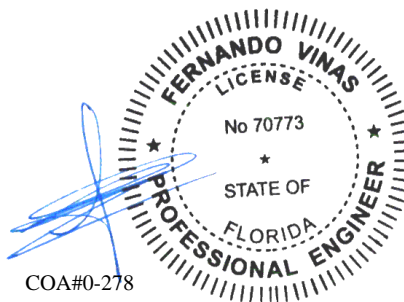
Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - E	1096 - 602	E - D	1086 - 605

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
B - D	627 - 1126



COA#0-278

03/02/2022

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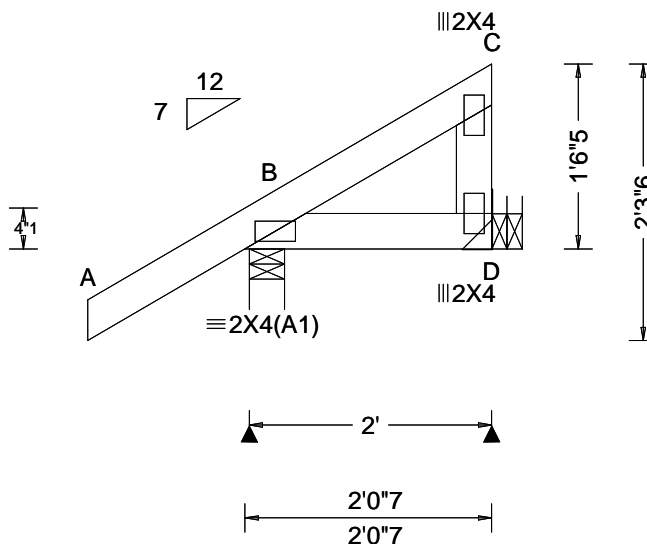
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75430 / FROM:	MONO Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: A32	Cust: R 215 JRef: 1Xdl2150012 T58 / DrwNo: 061.22.1523.13795 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.137 Max BC CSI: 0.027 Max Web CSI: 0.020 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 195 - / - /152 /35 /62 D 55 - / - /49 /18 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = - 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;

#### Hangers / Ties

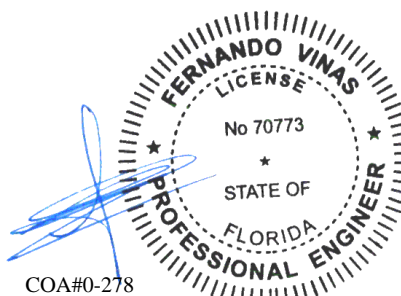
(J) Hanger Support Required, by others

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA#0-278

03/02/2022

#### **\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

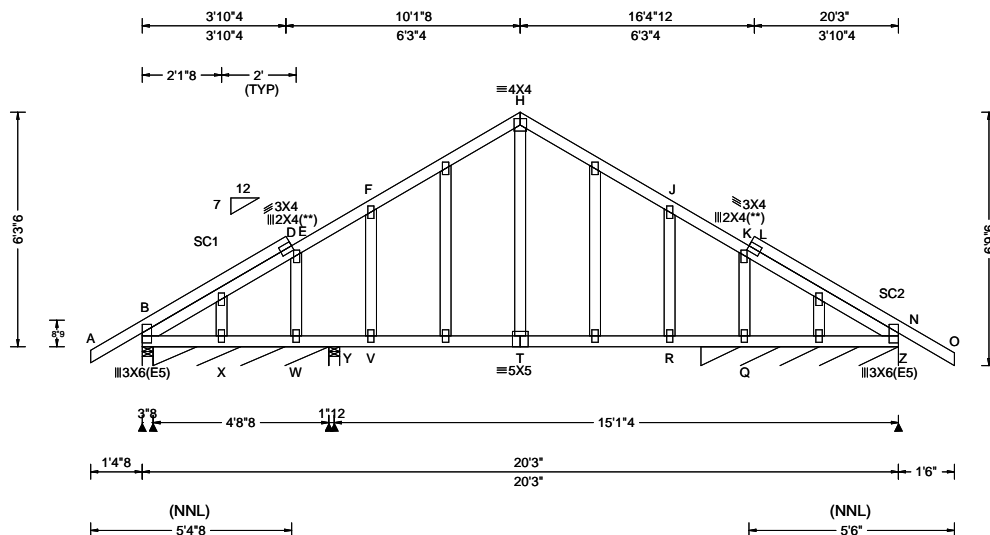
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**ALPINE**  
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6750 Forum Drive  
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SEQN: 75431 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B01	Cust: R 215 JRef: 1Xd12150012 T56 / DrwNo: 061.22.1523.12607 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.053 G 999 240 VERT(CL): 0.111 G 999 180 HORZ(LL): 0.024 G - - HORZ(TL): 0.050 G - - Creep Factor: 2.0 Max TC CSI: 0.737 Max BC CSI: 0.841 Max Web CSI: 0.130 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1064 -/- /- /471 /122 /383 B* 36 -/- /- /21 /22 -/- Y 719 -/- /- /434 /225 -/- Z* 369 -/- /- /193 /87 -/- X -/-108 Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) B Brg Wid = 56.5 Min Req = - Y Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 63.5 Min Req = - Bearings B, B, Y, & R are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

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

#### Maximum Top Chord Forces Per Ply (lbs)

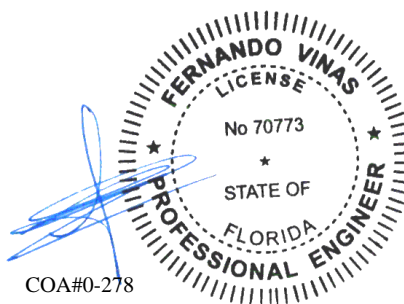
Chords	Tens.Comp.	Chords	Tens. Comp.
B - D	27 -568	H - J	498 -1107
B - D	97 -581	J - K	281 -1077
D - E	105 -832	K - L	100 -840
E - F	287 -1086	L - N	29 -569
F - H	499 -1104	L - N	88 -582

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - W	872 -92	T - R	848 -84
W - V	1711 -175	R - Q	1711 -166
V - T	848 -85	Q - N	871 -84

#### Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
E - W	391 -539	R - J	254 -399
F - V	241 -376	Q - K	371 -505



COA#0-278

03/02/2022

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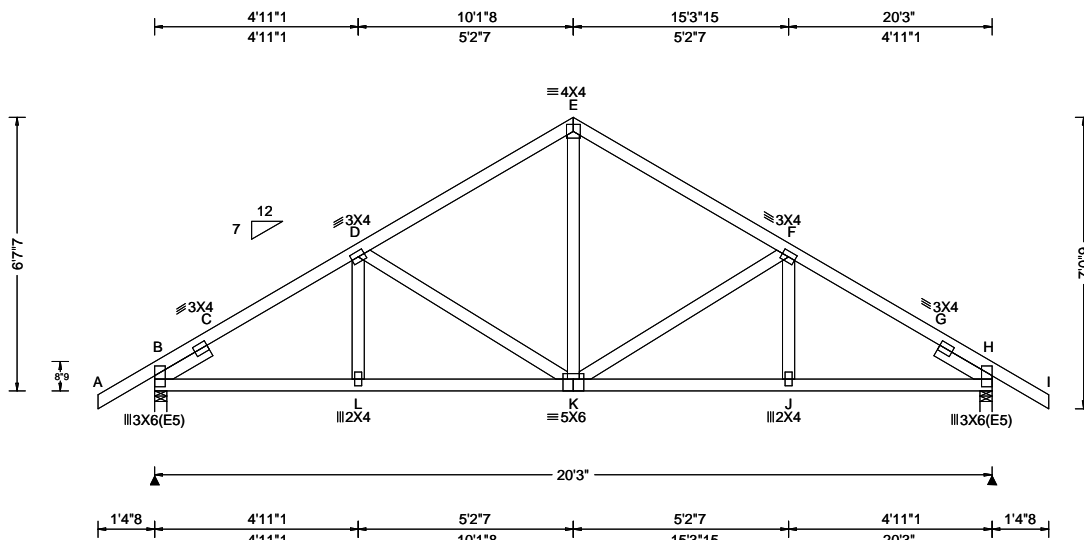
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SEQN: 75488 / FROM:	COMN Ply: 1 Qty: 6	Job Number: 22-6958 Truntz Truss Label: B02	Cust: R 215 JRef: 1XdI2150012 T3 / DrwNo: 061.22.1523.13810 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.030 K 999 240 VERT(CL): 0.062 K 999 180 HORZ(LL): 0.015 H - - HORZ(TL): 0.029 H - - Creep Factor: 2.0 Max TC CSI: 0.265 Max BC CSI: 0.331 Max Web CSI: 0.252  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 935 - / - /560 /182 /193 H 935 - / - /560 /182 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 279 -1250 E - F 247 -887 C - D 262 -1207 F - G 261 -1207 D - E 247 -887 G - H 279 -1250

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Wind

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

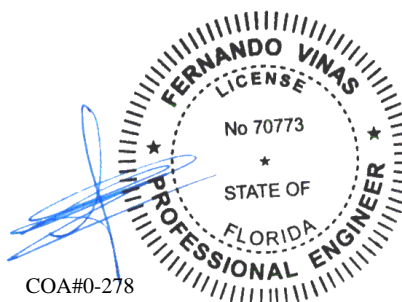
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	993 -133	K - J	993 -136
L - K	993 -131	J - H	993 -138

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
E - K	493 -96



03/02/2022

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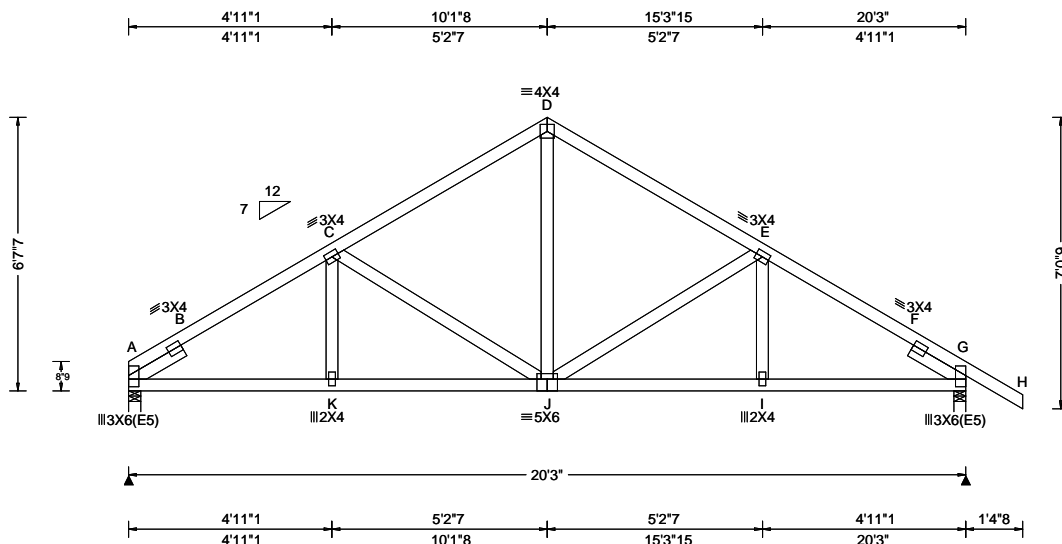
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SEQN: 75433 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B03	Cust: R 215 JRef: 1XdI2150012 T27 / DrwNo: 061.22.1523.12951 KD / YK 03/02/2022
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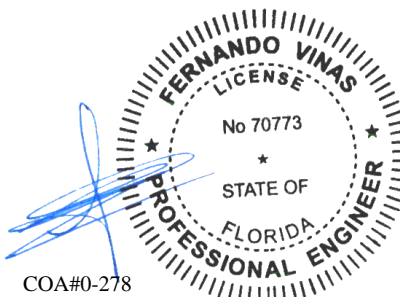
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.030 J 999 240 VERT(CL): 0.062 J 999 180 HORZ(LL): 0.015 G - - HORZ(TL): 0.030 G - - Creep Factor: 2.0 Max TC CSI: 0.352 Max BC CSI: 0.332 Max Web CSI: 0.265 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 839 -/- /- /481 /28 /177 G 938 -/- /- /560 /37 -/ Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 G Brg Wid = 3.5 Min Req = 1.5 Bearings A & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 287 -1289 D - E 251 -893 B - C 269 -1223 E - F 265 -1212 C - D 251 -894 F - G 282 -1255

**Lumber**  
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

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

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	1013 -147	J - I	998 -139
K - J	1013 -145	I - G	998 -141

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.		
D - J	496 -101		

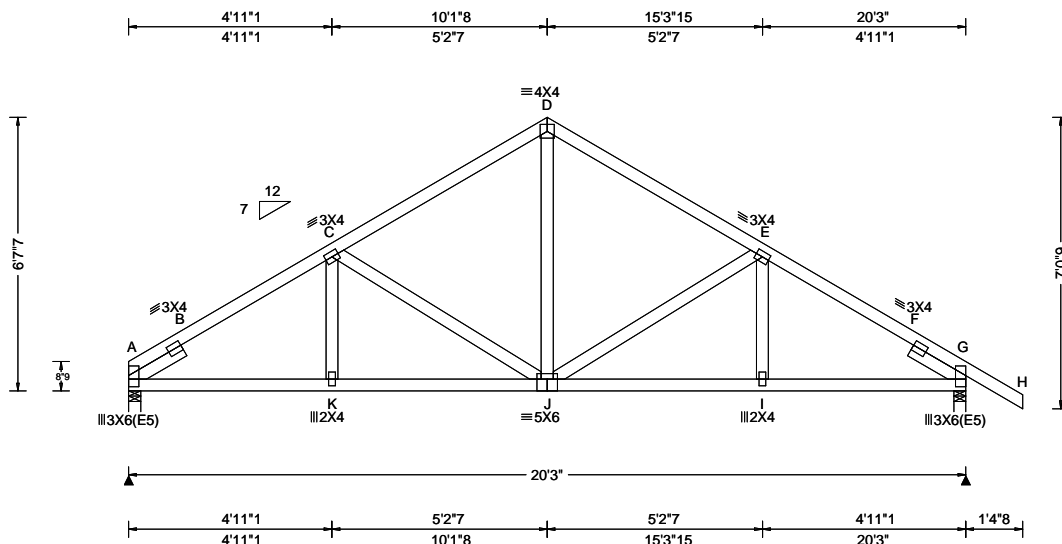


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SEQN: 75434 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B04	Cust: R 215 JRef: 1XdI2150012 T2 / DrwNo: 061.22.1523.12749 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.030 J 999 240 VERT(CL): 0.062 J 999 180 HORZ(LL): 0.015 G - - HORZ(TL): 0.030 G - - Creep Factor: 2.0 Max TC CSI: 0.352 Max BC CSI: 0.332 Max Web CSI: 0.265 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL A 839 - / - / - / 481 / 28 / 177 G 938 - / - / - / 560 / 37 / - Non-Gravity Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 G Brg Wid = 3.5 Min Req = 1.5 Bearings A & 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 287 - 1289 D - E 251 - 893 B - C 269 - 1223 E - F 265 - 1212 C - D 251 - 894 F - G 282 - 1255

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.500'  
Rt Slider: 2x4 SP #3; block length = 1.500'

#### Wind

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

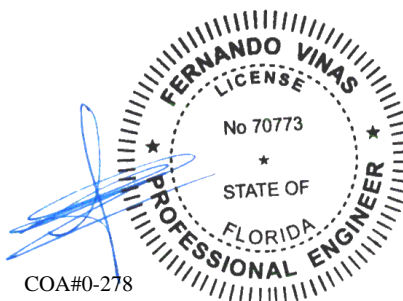
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	1013 - 147	J - I	998 - 139
K - J	1013 - 145	I - G	998 - 141

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D - J	496 - 101



03/02/2022

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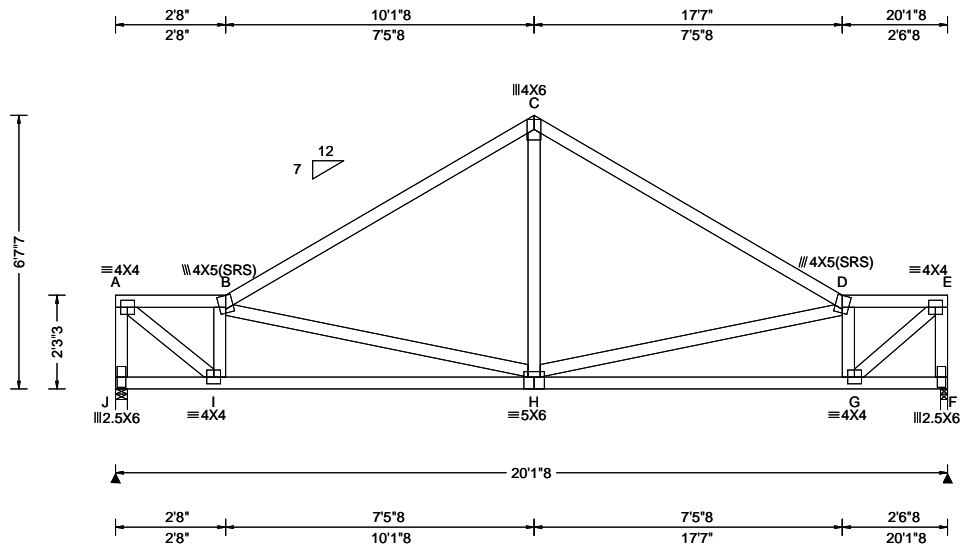
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SEQN: 75435 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B05	Cust: R 215 JRef: 1Xd12150012 T19 / DrwNo: 061.22.1523.13716 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.030 H 999 240 VERT(CL): 0.063 H 999 180 HORZ(LL): 0.013 F - - HORZ(TL): 0.027 F - - Creep Factor: 2.0 Max TC CSI: 0.631 Max BC CSI: 0.616 Max Web CSI: 0.488 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL J 837 -/- /- /444 /34 /111 F 837 -/- /- /444 /32 -/ Wind reactions based on MWFRS J Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 2.0 Min Req = 1.5 Bearings J & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 280 -986 C - D 253 -961 B - C 253 -961 D - E 266 -946

#### Lumber

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

#### Wind

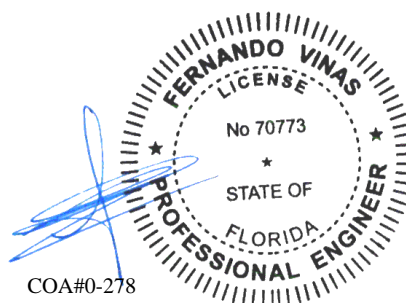
Wind loads based on MWFRS with additional C&C member design.  
End verticals not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
I - H	1090 -324	H - G	1052 -311

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - J	283 -834	D - G	306 -723
A - I	1281 -361	G - E	1257 -352
I - B	305 -713	E - F	277 -837
C - H	464 -21		



COA#0-278

03/02/2022

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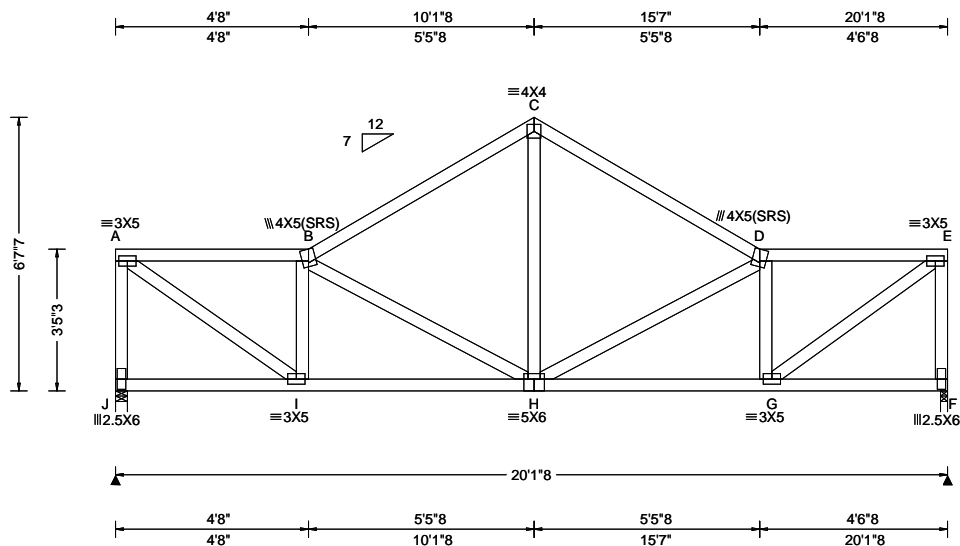
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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**ALPINE**  
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75436 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B06	Cust: R 215 JRef: 1Xd12150012 T18 / DrwNo: 061.22.1523.12810 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.033 H 999 240 VERT(CL): 0.069 H 999 180 HORZ(LL): 0.012 A - - HORZ(TL): 0.025 A - - Creep Factor: 2.0 Max TC CSI: 0.295 Max BC CSI: 0.381 Max Web CSI: 0.442 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL J 837 -/- /- /430 /70 /81 F 837 -/- /- /430 /68 -/ Wind reactions based on MWFRS J Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 2.0 Min Req = 1.5 Bearings J & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 352 -950 C - D 304 -894 B - C 305 -895 D - E 342 -931

#### Lumber

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

#### Wind

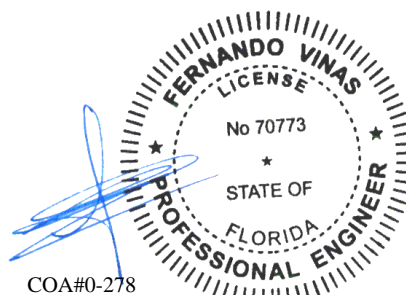
Wind loads based on MWFRS with additional C&C member design.  
End verticals not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
I - H	1003 -380	H - G	984 -370

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - J	398 -799	D - G	308 -583
A - I	1160 -424	G - E	1148 -417
I - B	308 -576	E - F	394 -801
C - H	487 -154		



COA#0-278

03/02/2022

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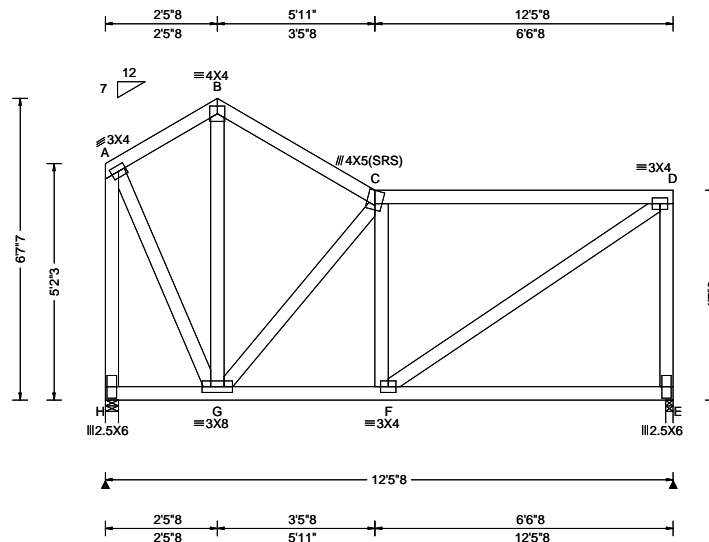
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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SEQN: 75437 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B07	Cust: R 215 JRef: 1Xdl150012 T11 / DrwNo: 061.22.1523.13638 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.010 C 999 240 VERT(CL): 0.021 C 999 180 HORZ(LL): 0.005 B - - HORZ(TL): 0.011 B - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.343 Max Web CSI: 0.353 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL H 518 - / - / 288 / 40 / 51 E 518 - / - / 266 / 80 / - Wind reactions based on MWFRS H Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 2.0 Min Req = 1.5 Bearings H & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. C - D 271 - 421

#### 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.

End verticals not exposed to wind pressure.

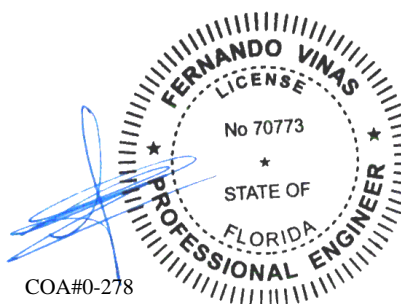
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.
G - F	432 - 288

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - H	278 - 494	F - D	511 - 328
G - C	368 - 425	D - E	439 - 466



COA#0-278

03/02/2022

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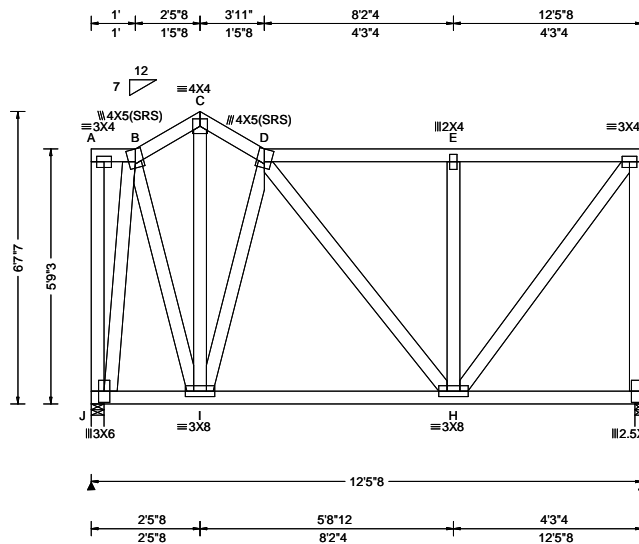
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Orlando FL, 32821

SEQN: 75438 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B08	Cust: R 215 JRef: 1XdI2150012 T25 / DrwNo: 061.22.1523.14045 KD / YK 03/02/2022
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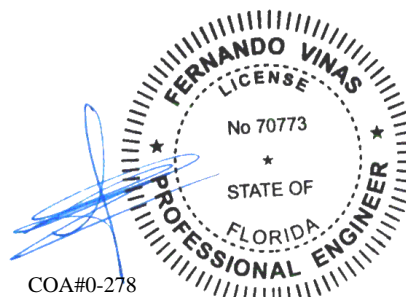
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.32 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.009 E 999 240 VERT(CL): 0.019 E 999 180 HORZ(LL): 0.003 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.270 Max BC CSI: 0.242 Max Web CSI: 0.368  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J 518 -/- /- /269 /69 /21 G 518 -/- /- /265 /102 -/ Wind reactions based on MWFRS J Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 2.0 Min Req = 1.5 (Truss) Bearings J & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. J - B 338 -486 H - F 483 -422 I - D 377 -343 F - G 483 -487 E - H 456 -318

#### 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.  
End verticals not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



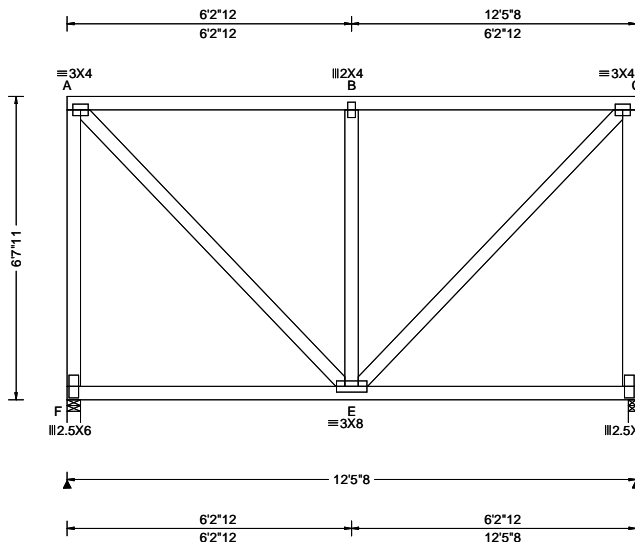
COA#0-278

03/02/2022

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SEQN: 75439 / FROM:	FLAT Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: B09	Cust: R 215 JRef: 1XdI2150012 T36 / DrwNo: 061.22.1523.14185 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.77 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 21.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.011 B 999 240 VERT(CL): 0.023 B 999 180 HORZ(LL): 0.002 A - - HORZ(TL): 0.003 A - - Creep Factor: 2.0 Max TC CSI: 0.698 Max BC CSI: 0.464 Max Web CSI: 0.459 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 498 -/- /- /256 /112 -/ D 498 -/- /- /256 /112 -/ Wind reactions based on MWFRS F Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 2.0 Min Req = 1.5 Bearings F & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. A - F 397 -451 E - C 433 -317 A - E 433 -317 C - D 397 -451 B - E 531 -464

#### Lumber

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

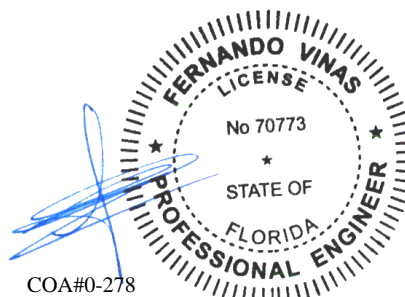
#### Wind

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

End verticals not exposed to wind pressure.

#### Additional Notes

Truss must be installed as shown with top chord up.



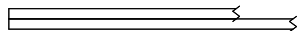
COA#0-278

03/02/2022

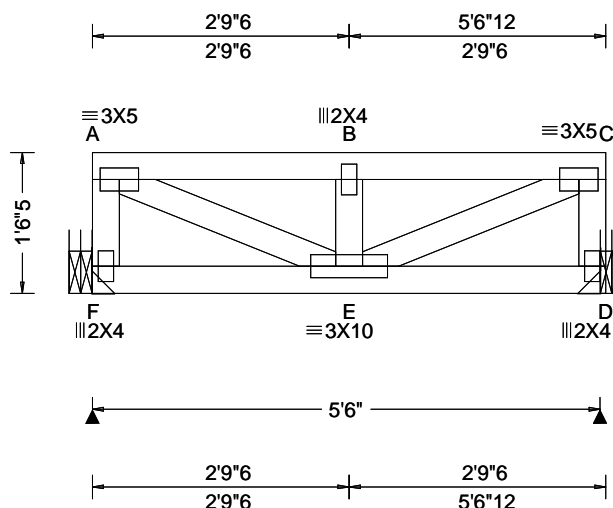
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SEQN: 75451 / FROM:	FLAT Ply: 2 Qty: 1	Job Number: 22-6958 Truntz Truss Label: C01	Cust: R 215 JRef: 1Xdl2150012 T47 DrwNo: 061.22.1523.13311 KD / YK 03/02/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.013 B 999 240 VERT(CL): 0.026 B 999 180 HORZ(LL): 0.002 A - - HORZ(TL): 0.003 A - - Creep Factor: 2.0 Max TC CSI: 0.163 Max BC CSI: 0.099 Max Web CSI: 0.418 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 1559 -/- /- /- /338 -/ D 1555 -/- /- /- /337 -/ Wind reactions based on MWFRS F Brg Wid = - Min Req = - D Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 222 -1019 B - C 222 -1019 <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. A - F 166 -752 E - C 1098 -239 A - E 1098 -239 C - D 166 -752 B - E 194 -860

#### Lumber

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

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 5.75" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 530 plf at 0.00 to 530 plf at 5.56  
BC: From 10 plf at 0.00 to 10 plf at 5.56  
BC: 55 lb Conc. Load at 1.69, 3.69

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

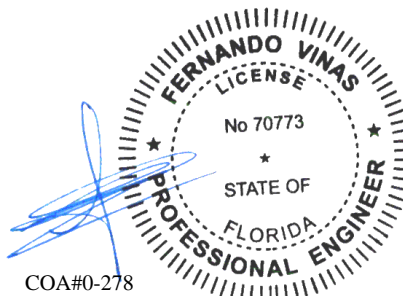
The TC of this truss shall be braced with attached  
spans at 24" oc in lieu of structural sheathing.

#### Wind

Wind loads and reactions based on MWFRS.  
End verticals not exposed to wind pressure.

#### Additional Notes

Truss must be installed as shown with top chord up.  
WIND LOAD CASE MODIFIED!



03/02/2022

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**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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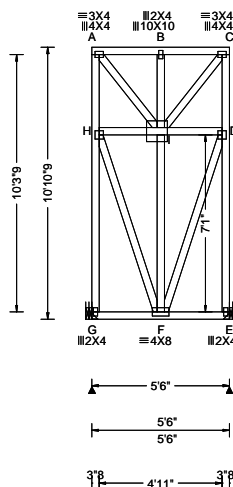
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
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SEQN: 77100 FROM:	FLAT Ply: 2 Qty: 1	Job Number: 22-6958 Truntz Truss Label: C02	Cust: R 215 JRef: 1Xdl2150012 T49 DrwNo: 061.22.1528.41113 KD / FV 03/02/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.01 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.010 F 999 240 VERT(CL): 0.020 F 999 180 HORZ(LL): -0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.025 Max BC CSI: 0.417 Max Web CSI: 0.638 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL G 2083 -/- /- /100 -/ E 1995 -/- /- /89 -/ Non-Gravity Wind reactions based on MWFRS G Brg Wid = - Min Req = - E Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. G - H 43 -820 I - F 383 -15 H - F 629 -22 D - E 43 -820 F - D 629 -22

#### Lumber

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

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 2.25" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 30 plf at 0.00 to 30 plf at 5.50  
BC: From 10 plf at 0.00 to 10 plf at 5.50  
BC: 1930 lb Conc. Load at 1.69  
BC: 1929 lb Conc. Load at 3.69

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

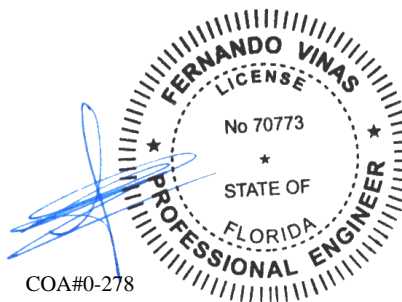
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

#### Wind

Wind loads and reactions based on MWFRS.  
End verticals not exposed to wind pressure.

#### Additional Notes

Truss must be installed as shown with top chord up.



COA#0-278

03/02/2022

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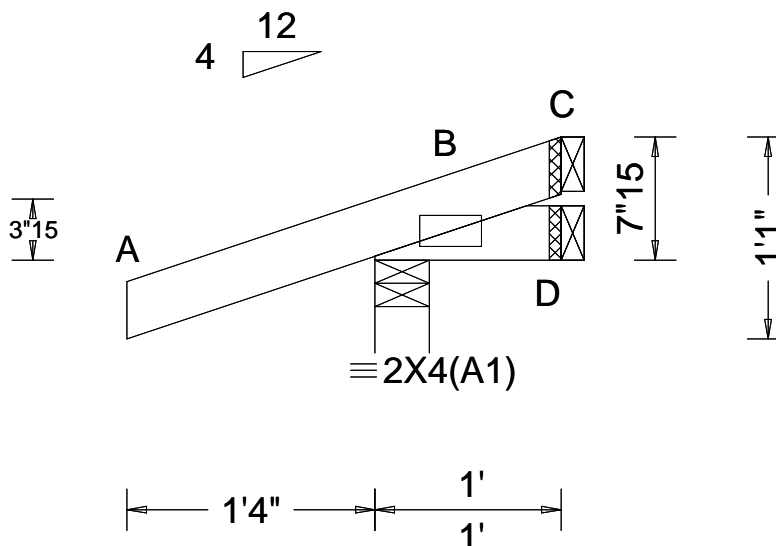
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**ALPINE**  
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SEQN: 75440 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J01	Cust: R 215 JRef: 1Xdl2150012 T34 / DrwNo: 061.22.1523.13935 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.211 Max BC CSI: 0.026 Max Web CSI: 0.000  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 217 /- /- /161 /85 /25 D 4 /-13 /- /17 /13 /- C - /-36 /- /29 /32 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

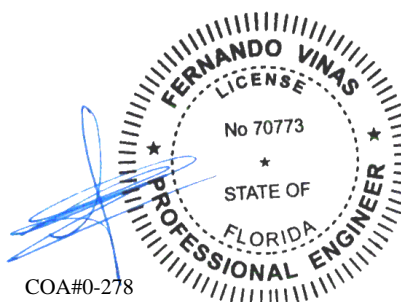
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



03/02/2022

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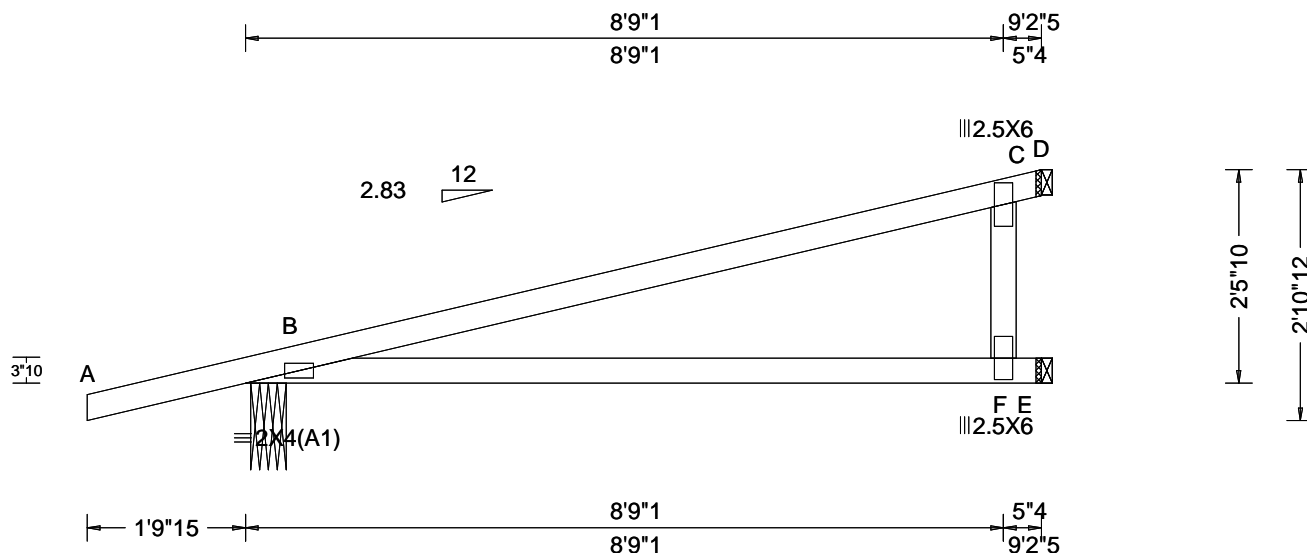
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SEQN: 422333 FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: J01HJ	Cust: R 215 JRef: 1Xdl1250012 T24 DrwNo: 061.22.1527.35877 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.064 B 999 240 VERT(CL): 0.121 B 904 180 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.416 Max BC CSI: 0.250 Max Web CSI: 0.263 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 519 /- /- /- /140 /- E 416 /- /- /- /277 /- D - /-173 /- /232 /- /- Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Loading

The following trusses need concentrated loads at the end of their overhangs: 5-0-0 span/setback member on the 1-3-8 cant side requires 79 lbs and the 5-0-0 span/setback member on the 1-3-8 cant side requires 79 lbs.

Sub-fascia beam assumptions: 6-3-8 sub-fascia beam on the 1-3-8 cantilever side. 6-3-8 sub-fascia beam on the 1-3-8 cantilever side.

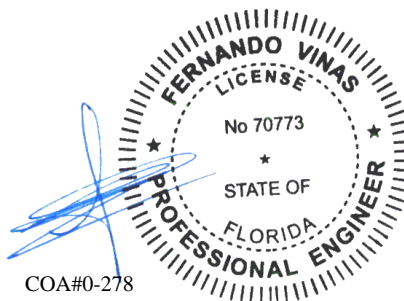
Hipjack supports 6-6-0 setback jacks with 1-3-8 cantilever one face; 1-3-8 cantilever opposite face.

#### Wind

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

#### Additional Notes

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



COA#0-278

03/02/2022

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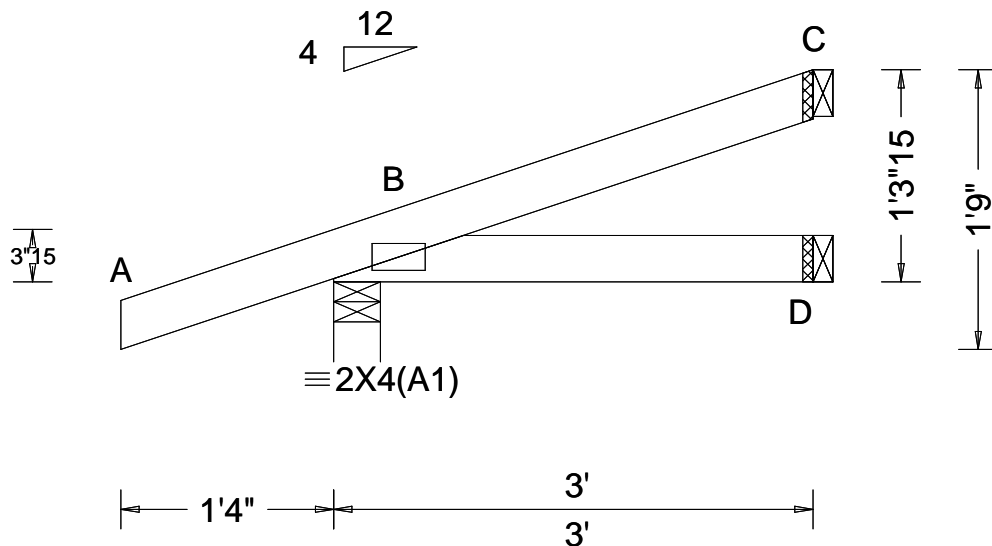
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Orlando FL, 32821

SEQN: 75441 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J02	Cust: R 215 JRef: 1Xdl2150012 T31 / DrwNo: 061.22.1523.13419 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.212 Max BC CSI: 0.061 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 240 - / - /166 /56 /48 D 48 - / - /27 - / - C 63 - / - /33 /30 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

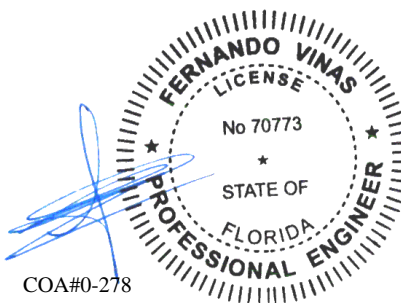
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



03/02/2022

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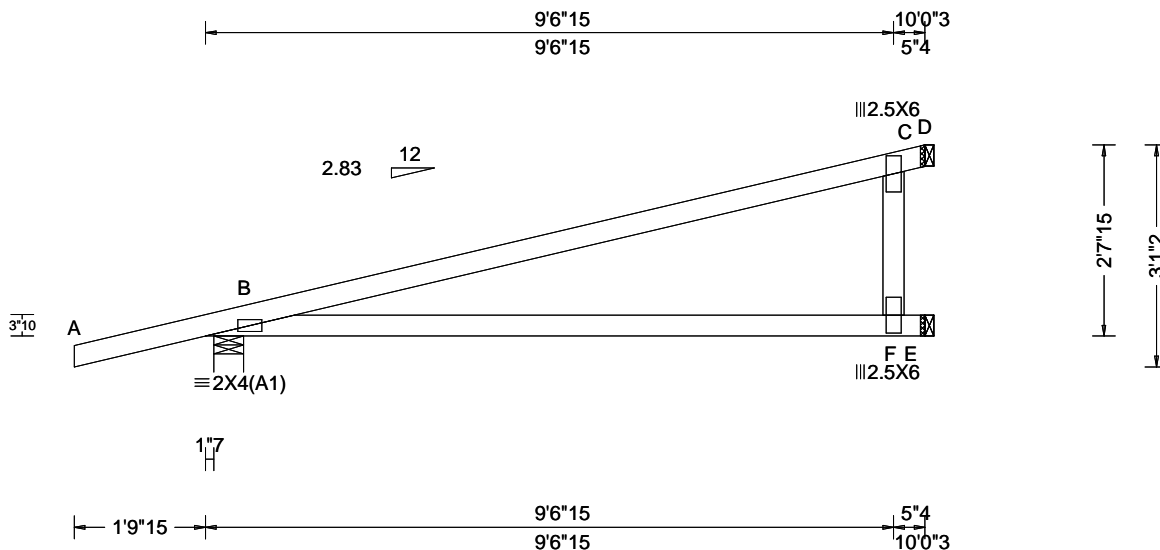
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6750 Forum Drive  
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Orlando FL, 32821

SEQN: 422331 FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: J02HJ	Cust: R 215 JRef: 1XdI2150012 T13 DrwNo: 061.22.1527.33900 KD / FV 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.118 B 999 240 VERT(CL): 0.226 B 526 180 HORZ(LL): 0.030 B - - HORZ(TL): 0.058 B - - Creep Factor: 2.0 Max TC CSI: 0.619 Max BC CSI: 0.813 Max Web CSI: 0.451 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 526 -/- /- /135 -/ E 465 -/- /- /364 -/ D - /-144 -/- /302 -/- /- Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. C - F 404 -377

#### Lumber

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

#### Loading

The following trusses need concentrated loads at the end of their overhangs: 4-0-0 span/setback member on the 1-4-0 cant side requires 56 lbs and the 4-0-0 span/setback member on the 1-4-0 cant side requires 56 lbs.

Sub-fascia beam assumptions: 5-3-8 sub-fascia beam on the 1-4-0 cantilever side. 5-3-8 sub-fascia beam on the 1-4-0 cantilever side.

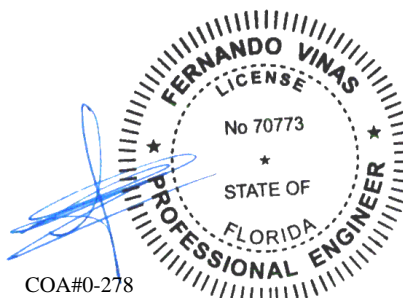
Hipjack supports 7-1-0 setback jacks with 1-4-0 cantilever one face; 1-4-0 cantilever opposite face.

#### Wind

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

#### Additional Notes

The overall height of this truss excluding overhang is 2-7-15.



COA#0-278

03/02/2022

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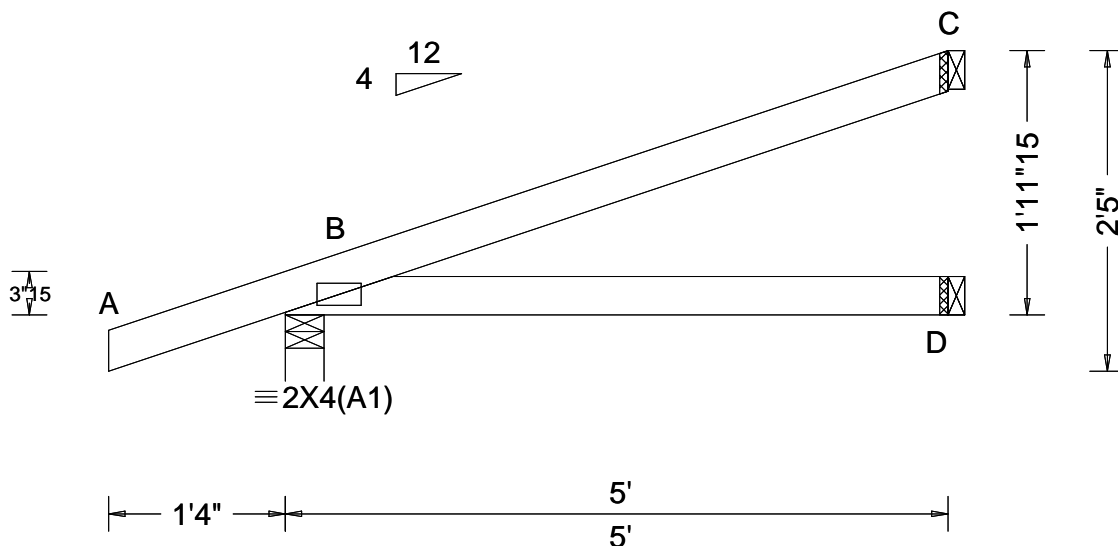
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6750 Forum Drive  
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Orlando FL, 32821

SEQN: 75442 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J03	Cust: R 215 JRef: 1Xdl2150012 T8 / DrwNo: 061.22.1523.13388 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.005 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.300 Max BC CSI: 0.225 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 310 /- /- /208 /62 /71 D 88 /- /- /48 /- /- C 125 /- /- /69 /57 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

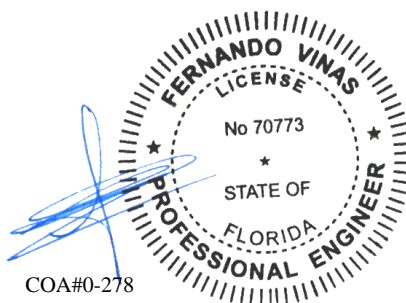
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA#0-278

03/02/2022

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

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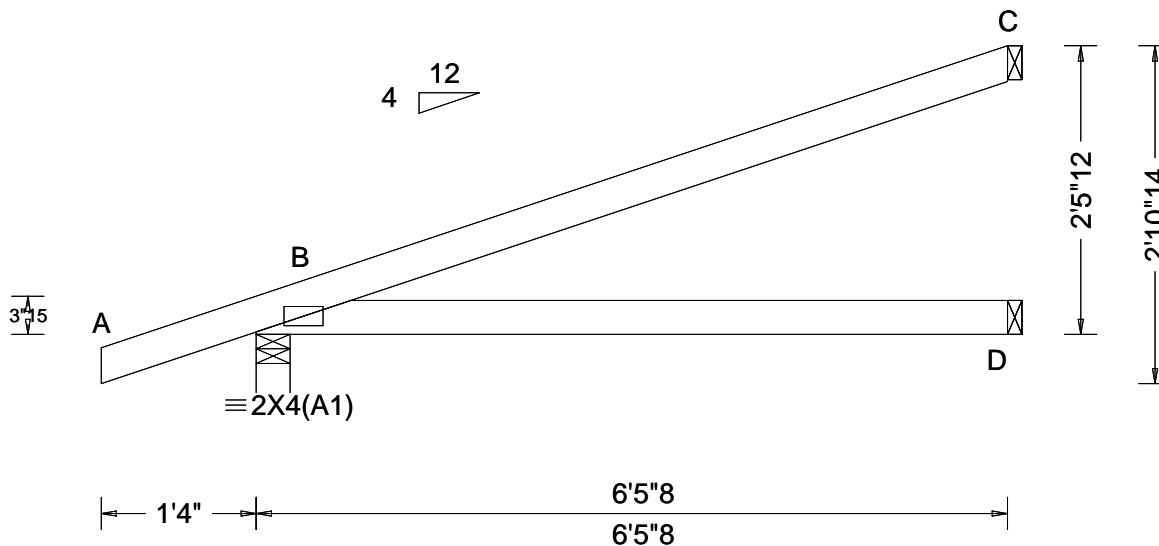
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75443 / FROM:	EJAC	Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J04	Cust: R 215 JRef: 1Xdl2150012 T14 / DrwNo: 061.22.1523.13920 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.012 B - - HORZ(TL): 0.023 B - - Creep Factor: 2.0 Max TC CSI: 0.566 Max BC CSI: 0.412 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 366 - / - / - /243 /70 /88 D 116 - / - / - /65 - / - C 168 - / - / - /93 /77 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

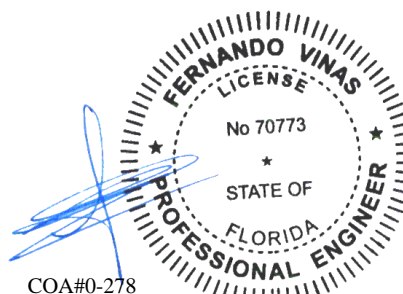
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA#0-278

03/02/2022

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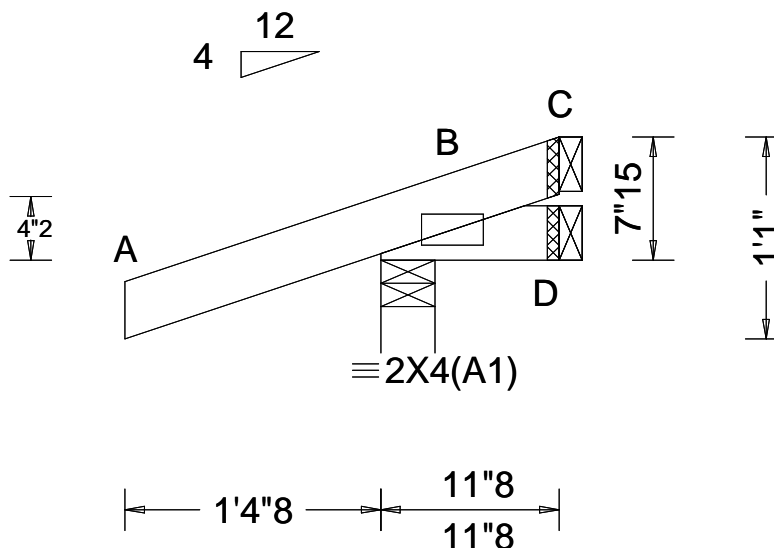
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Orlando FL, 32821

SEQN: 75444 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J05	Cust: R 215 JRef: 1Xdl2150012 T16 / DrwNo: 061.22.1523.13264 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.223 Max BC CSI: 0.028 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 228 /- /- /169 /91 /26 D 3 /-15 /- /17 /14 /- C - /-45 /- /33 /39 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

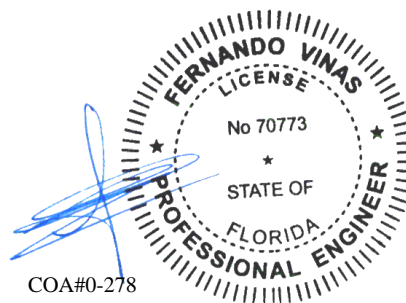
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA#0-278

03/02/2022

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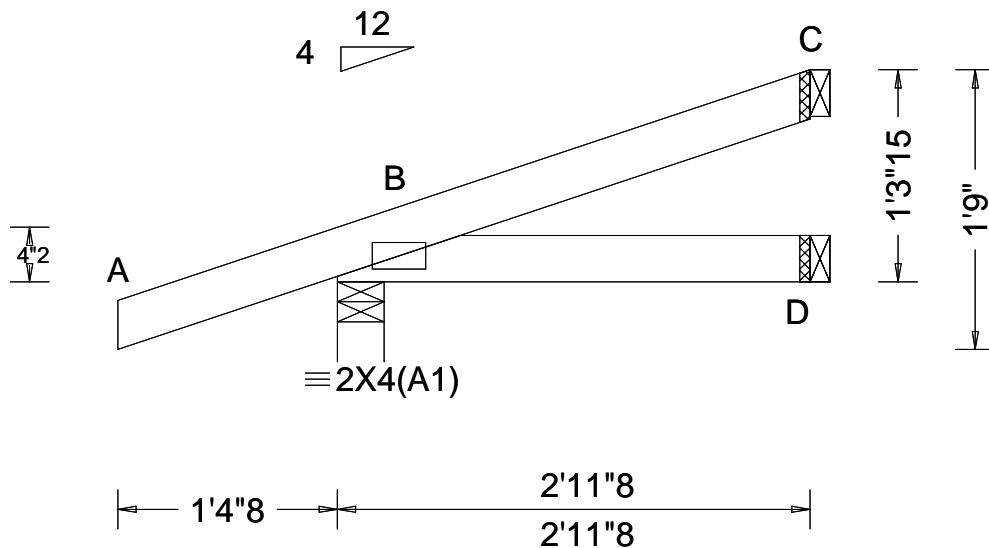
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SEQN: 75445 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J06	Cust: R 215 JRef: 1Xdl2150012 T33 / DrwNo: 061.22.1523.14013 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.225 Max BC CSI: 0.059 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 243 - / - /168 /59 /48 D 48 - / - /26 - / - C 61 - / - /32 /29 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

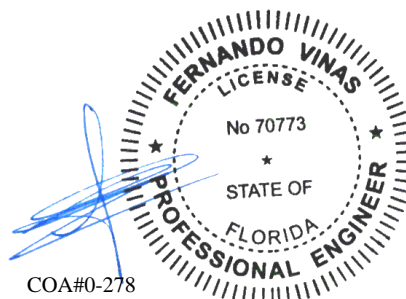
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA#0-278

03/02/2022

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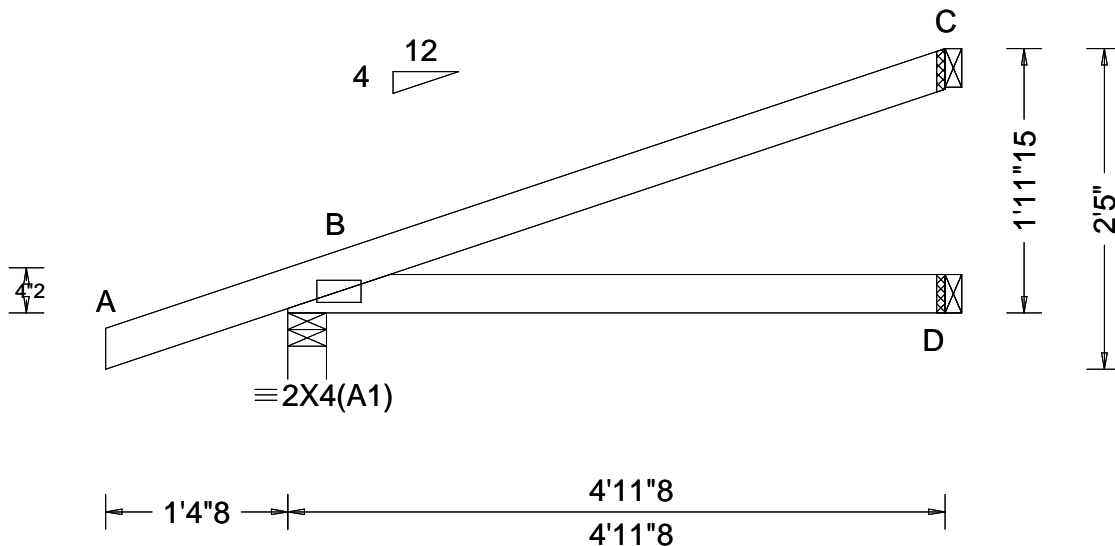
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SEQN: 75446 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-6958 Truntz Truss Label: J07	Cust: R 215 JRef: 1Xdl1250012 T48 / DrwNo: 061.22.1523.13467 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.293 Max BC CSI: 0.221 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 312 - / - /210 /62 /71 D 87 - / - /48 - / - C 124 - / - /68 /57 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

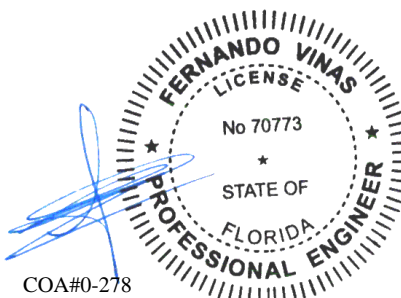
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



03/02/2022

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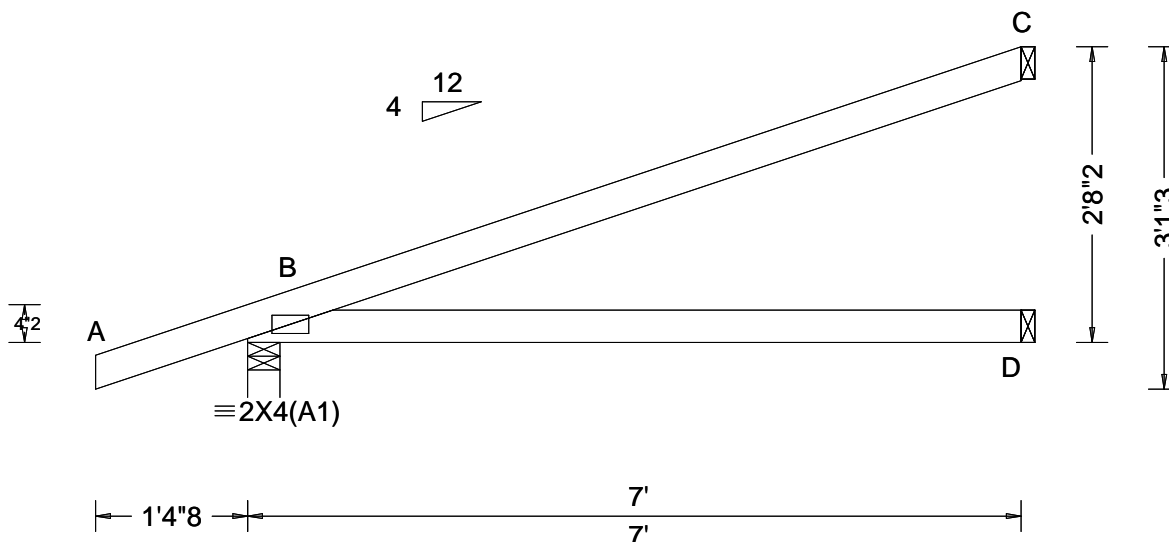
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SEQN: 75447 / FROM:	EJAC	Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: J08	Cust: R 215 JRef: 1Xdl2150012 T26 / DrwNo: 061.22.1523.13857 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.015 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.870 Max BC CSI: 0.497 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 391 - / - / - /258 /74 /95 D 127 - / - / - /71 - / - C 183 - / - / - /102 /84 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

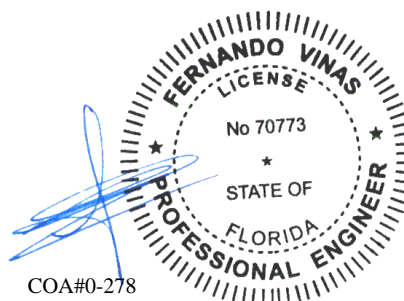
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



03/02/2022

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**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

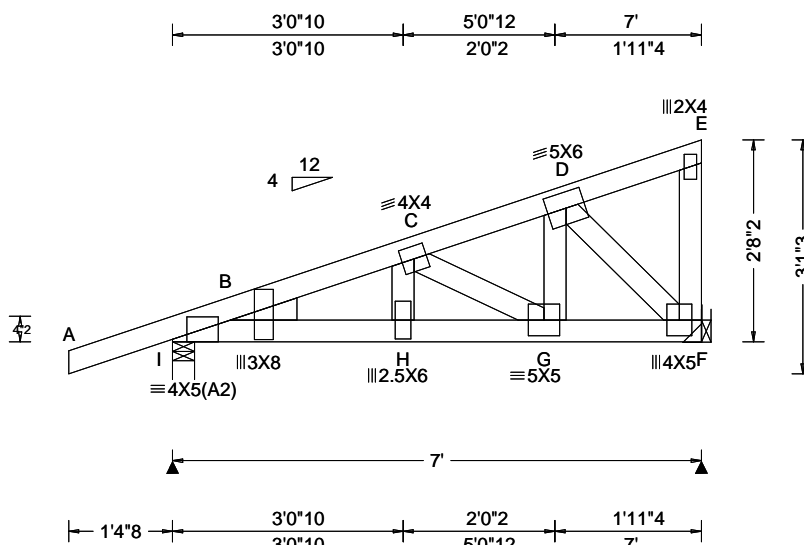
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AN ITW COMPANY  
6750 Forum Drive  
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SEQN: 75455 / FROM:	EJAC Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: J09	Cust: R 215 JRef: 1Xdl2150012 T10 DrwNo: 061.22.1523.13216 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.040 B 999 240 VERT(CL): 0.079 B 999 180 HORZ(LL): -0.011 E - - HORZ(TL): 0.021 E - - Creep Factor: 2.0 Max TC CSI: 0.553 Max BC CSI: 0.675 Max Web CSI: 0.703 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL I 2053 -/- /- /- /378 -/ F 1430 -/- /- /- /243 -/ Wind reactions based on MWFRS I Brg Wid = 3.5 Min Req = 1.7 (Truss) F Brg Wid = - Min Req = - Bearing I is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 543 -3225 C - D 296 -1743

#### Lumber

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

#### Special Loads

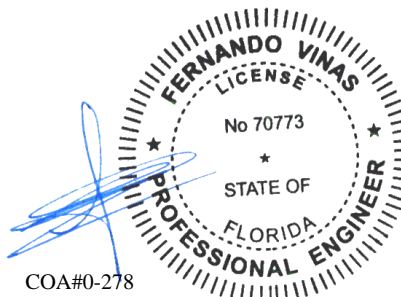
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 61 plf at -1.38 to 61 plf at 3.06  
TC: From 31 plf at 3.06 to 31 plf at 7.00  
BC: From 4 plf at -1.38 to 4 plf at 0.00  
BC: From 10 plf at 0.00 to 10 plf at 7.00  
BC: 1006 lb Conc. Load at 1.06  
BC: 1005 lb Conc. Load at 3.06, 5.06

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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



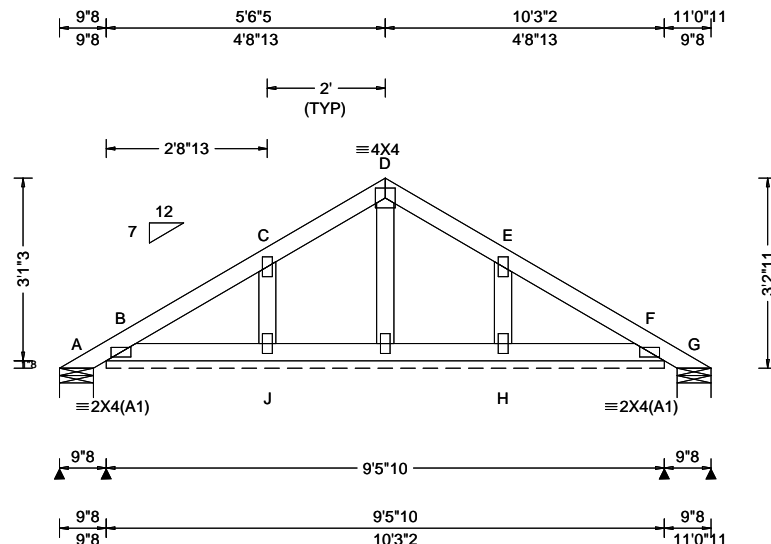
COA#0-278

03/02/2022

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**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75456 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: PB01	Cust: R 215 JRef: 1XdI2150012 T57 / DrwNo: 061.22.1523.12622 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): 0.001 F - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.281 Max BC CSI: 0.106 Max Web CSI: 0.116 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-18 /- /99 /99 /173 B* 259 /- /- /87 /56 /- G - /-18 /- /13 /11 /- B /-139 J /-254 H /-254 F /-140 Wind reactions based on MWFRS A Brg Wid = 6.9 Min Req = 1.5 B Brg Wid = 113 Min Req = - G Brg Wid = 6.9 Min Req = 1.5 (Truss) Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp.

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

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

#### Wind

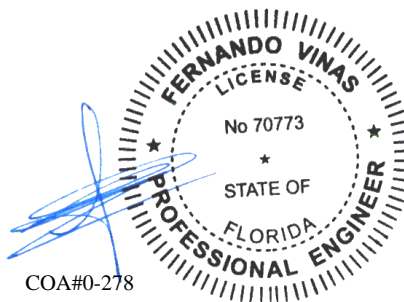
Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

Refer to DWG PB160160118 for piggyback details.



COA#0-278

03/02/2022

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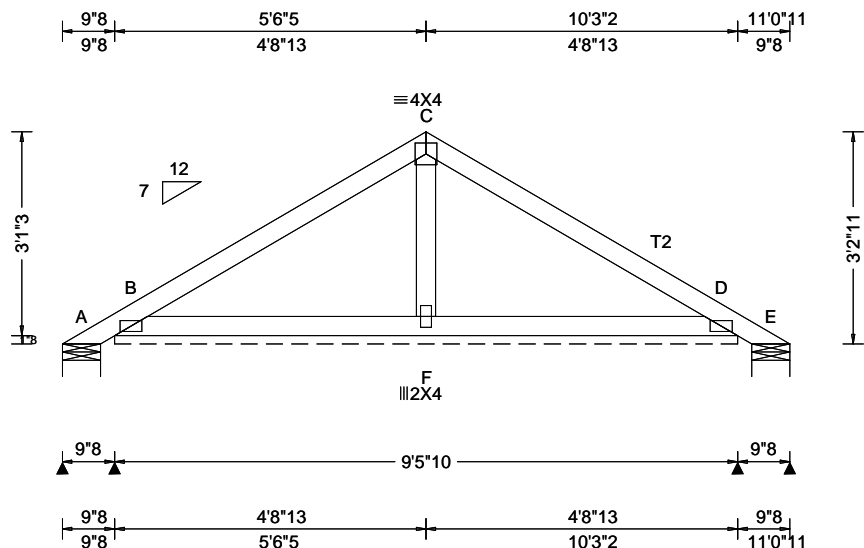
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
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Orlando FL, 32821

SEQN: 75448 / FROM:	GABL Qty: 8	Ply: 1 Truntz Truss Label: PB02	Cust: R 215 JRef: 1Xdl2150012 T54 / DrwNo: 061.22.1523.13498 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.74 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.64 ft Loc. from endwall: not in 8.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 B 999 240 VERT(CL): 0.014 B 999 180 HORZ(LL): 0.003 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.960 Max BC CSI: 0.325 Max Web CSI: 0.124 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL A - /-540 /- /208 /309 /173 B* 358 /- /- /113 /53 /- E - /-432 /- /113 /209 /- B /-280 D /-239 Wind reactions based on MWFRS A Brg Wid = 6.9 Min Req = 1.5 B Brg Wid = 113 Min Req = - E Brg Wid = 6.9 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 225 -613 C - D 214 -553

#### Lumber

Top chord: 2x4 SP M-31; T2 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Plating Notes

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

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

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

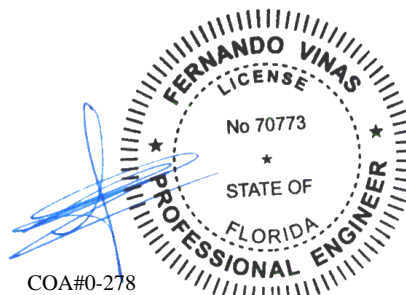
#### Wind

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

#### Additional Notes

Negative reaction(s) of -540# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160160118 for piggyback details.



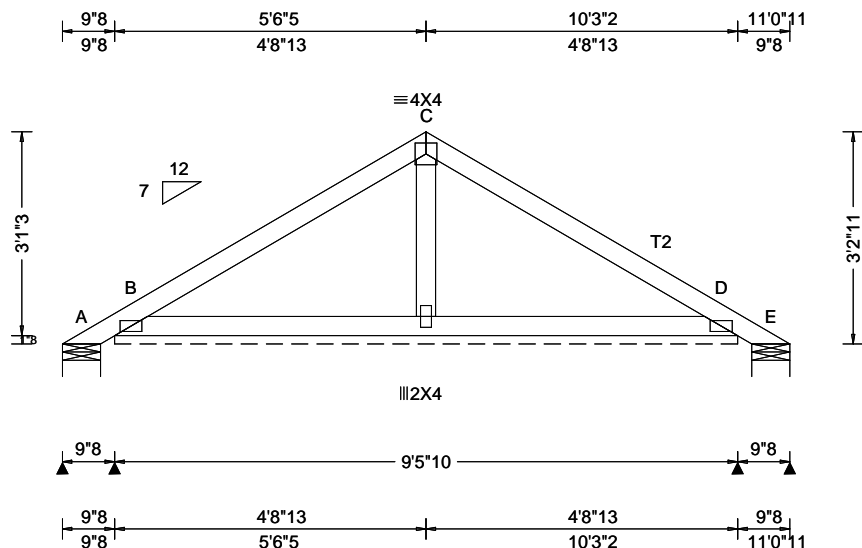
COA#0-278

03/02/2022

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**ALPINE**  
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6750 Forum Drive  
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SEQN: 75457 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: PB03	Cust: R 215 JRef: 1Xdl2150012 T38 / DrwNo: 061.22.1523.12748 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.74 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.56 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.007 D 999 240 VERT(CL): 0.010 D 999 180 HORZ(LL): 0.006 D - - HORZ(TL): 0.007 D - - Creep Factor: 2.0 Max TC CSI: 0.653 Max BC CSI: 0.223 Max Web CSI: 0.032 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-322 /- /256 /303 /167 B* 233 /- /- /108 /140 /- E - /-307 /- /244 /206 /- B /-304 D /-264 Wind reactions based on MWFRS A Brg Wid = 6.9 Min Req = 1.5 B Brg Wid = 113 Min Req = - E Brg Wid = 6.9 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 260 -377 C - D 261 -378

#### Lumber

Top chord: 2x4 SP M-31; T2 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Plating Notes

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

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

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

#### Wind

Wind loads based on MWFRS.

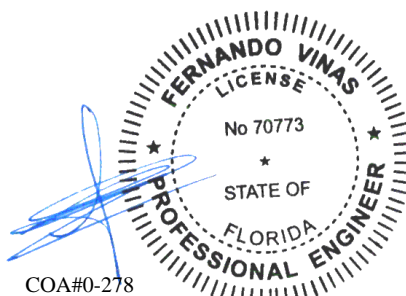
Wind loading based on both gable and hip roof types.

#### Additional Notes

Negative reaction(s) of -322# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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

Refer to DWG PB160160118 for piggyback details.



COA#0-278

03/02/2022

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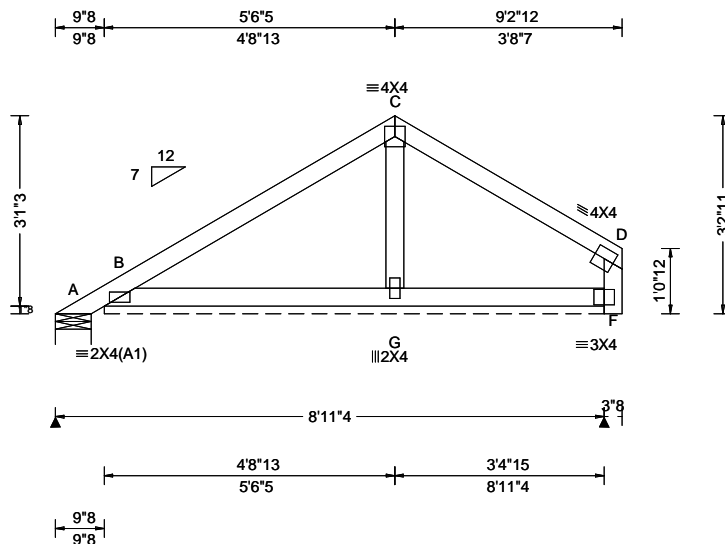
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 75449 / FROM:	GABL Qty: 2	Ply: 1	Job Number: 22-6958 Truntz Truss Label: PB04	Cust: R 215 JRef: 1Xdl2150012 T22 DrwNo: 061.22.1523.13139 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.74 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.42 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.005 B 999 240 VERT(CL): 0.014 B 999 180 HORZ(LL): 0.003 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.412 Max BC CSI: 0.240 Max Web CSI: 0.183 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-543 /- /212 /293 /161 B* 334 /- /- /116 /79 /- B /-263 Wind reactions based on MWFRS A Brg Wid = 6.9 Min Req = 1.5 B Brg Wid = 97.7 Min Req = - Bearings A & B are a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. F - D 166 -461

#### Lumber

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

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

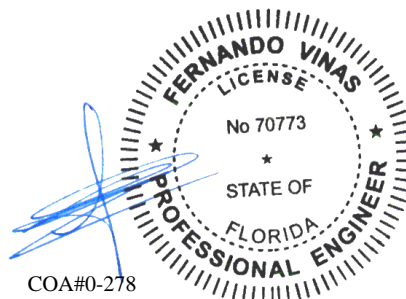
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

#### Wind

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

#### Additional Notes

Negative reaction(s) of -543# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.  
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.  
Refer to DWG PB160160118 for piggyback details.

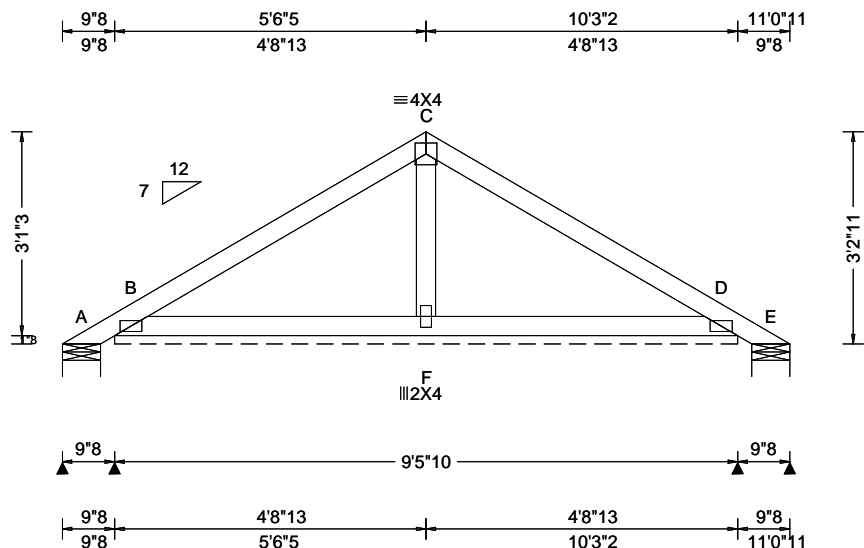


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**ALPINE**  
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6750 Forum Drive  
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Orlando FL, 32821

SEQN: 75458 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: PB05	Cust: R 215 JRef: 1Xdl2150012 T29 / DrwNo: 061.22.1523.14171 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.74 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.71 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 D 999 240 VERT(CL): 0.005 D 999 180 HORZ(LL): -0.002 D - - HORZ(TL): 0.003 D - - Creep Factor: 2.0 Max TC CSI: 0.244 Max BC CSI: 0.103 Max Web CSI: 0.032 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-136 /- /101 /157 /85 B* 102 /- /- /66 /26 /- E - /-136 /- /59 /115 /- B /-142 D /-122 Wind reactions based on MWFRS A Brg Wid = 6.9 Min Req = 1.5 B Brg Wid = 113 Min Req = - E Brg Wid = 6.9 Min Req = 1.5 (Truss) 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.

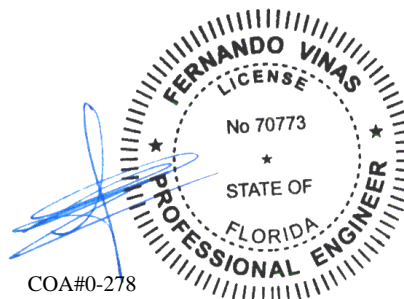
#### Wind

Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.

#### Additional Notes

Refer to DWG PB160160118 for piggyback details.



03/02/2022

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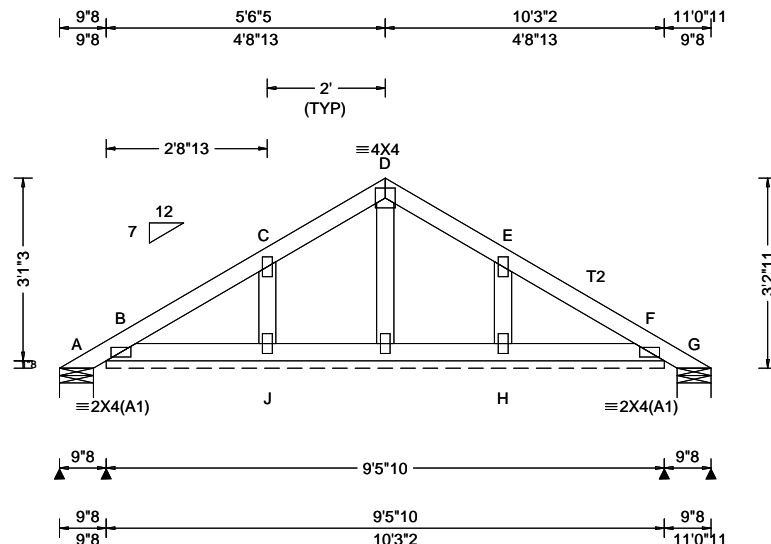
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SEQN: 75450 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-6958 Truntz Truss Label: PB06	Cust: R 215 JRef: 1XdI2150012 T60 / DrwNo: 061.22.1523.13889 KD / YK 03/02/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.74 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.55 ft Loc. from endwall: not in 17.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): 0.001 F - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.238 Max BC CSI: 0.085 Max Web CSI: 0.111 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-23 /- /100 /102 /173 B* 252 /- /- /87 /52 /- G - /-18 /- /12 /11 /- B /-147 J /-248 H /-254 F /-136 Wind reactions based on MWFRS A Brg Wid = 6.9 Min Req = 1.5 B Brg Wid = 113 Min Req = - G Brg Wid = 6.9 Min Req = 1.5 (Truss) Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp.

#### Lumber

Top chord: 2x4 SP M-31; T2 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

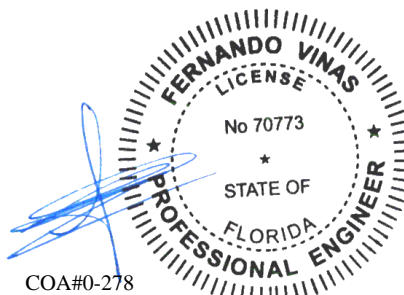
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

#### Wind

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

#### Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.  
Refer to DWG PB160160118 for piggyback details.



COA#0-278

03/02/2022

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

# Gable Stud Reinforcement Detail

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

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

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

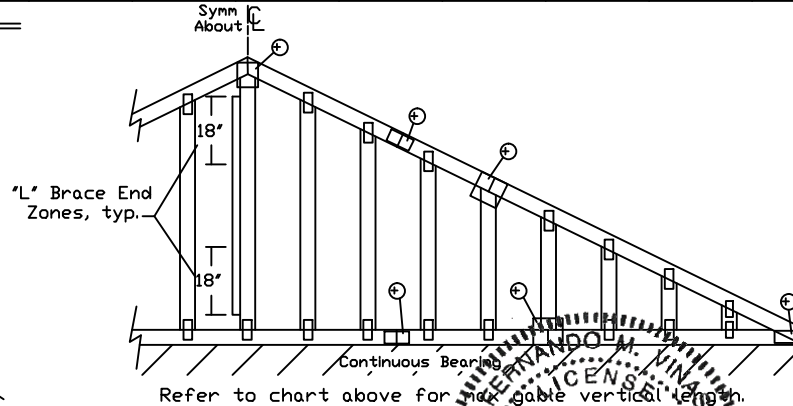
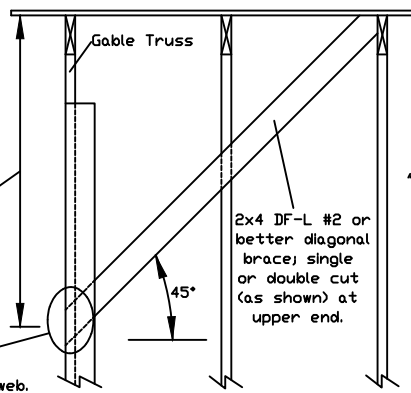
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



## Bracing Group Species and Grades:

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

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

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

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

## Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

## Gable Vertical Plate Sizes

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

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

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



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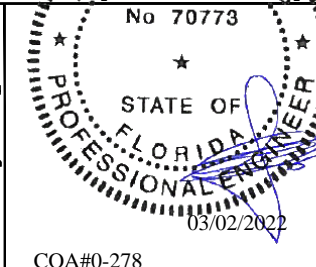
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For more information see this job's general notes page and these web sites:  
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MAX. TOT. LD. 60 PSF  
 MAX. SPACING 24.0'

REF ASCE7-16-GAB14015  
 DATE 01/26/2018  
 DRWG A14015ENC160118

# Gable Stud Reinforcement Detail

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

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

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

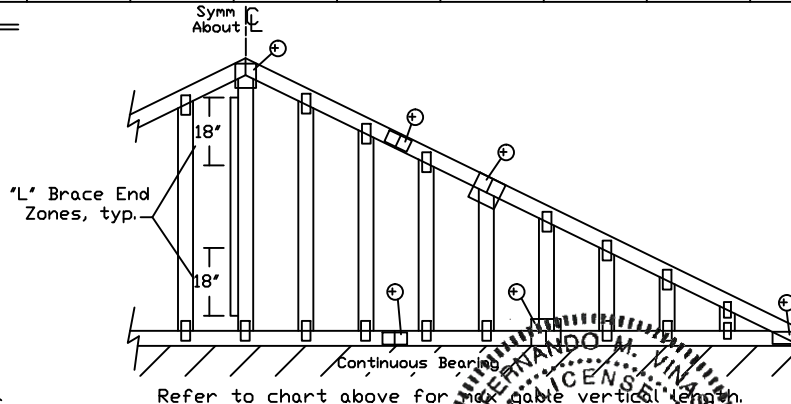
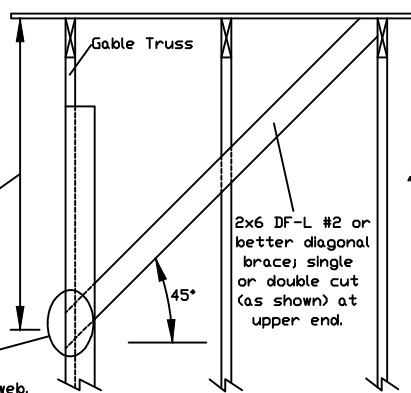
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



## Bracing Group Species and Grades:

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

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

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

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

## Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

## Gable Vertical Plate Sizes

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

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

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



514 Earth City Expressway  
Suite 242  
Earth City, MO 63045

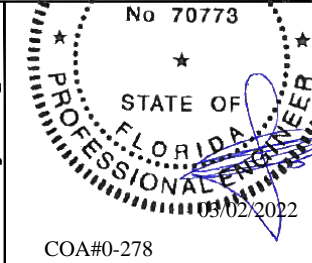
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COA#0-278

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

# CLR Reinforcing Member Substitution

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

## Notes:

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

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

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

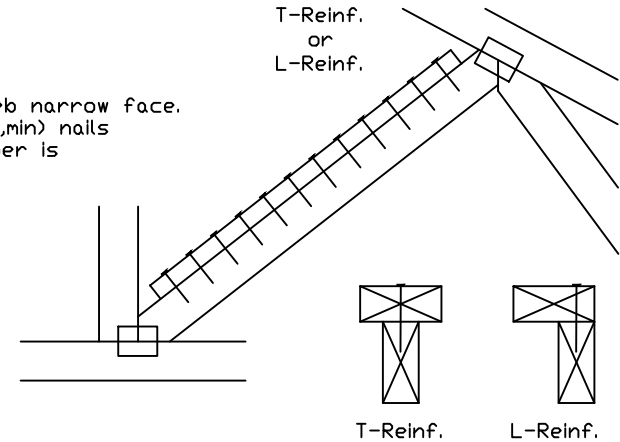
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x6(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

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

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

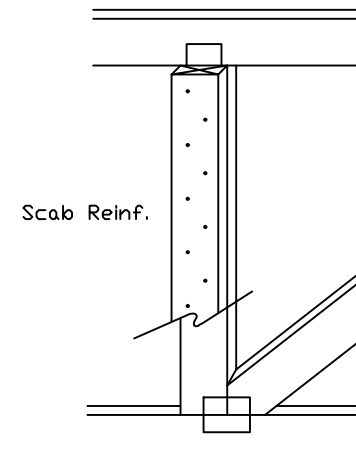
## T-Reinforcement or L-Reinforcement:

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



## Scab Reinforcement:

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



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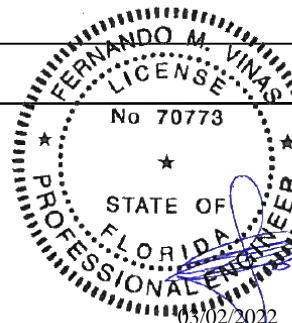
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COA#0-278

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

# NAIL SPACING DETAIL

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

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

LOAD PERPENDICULAR TO GRAIN

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

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

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

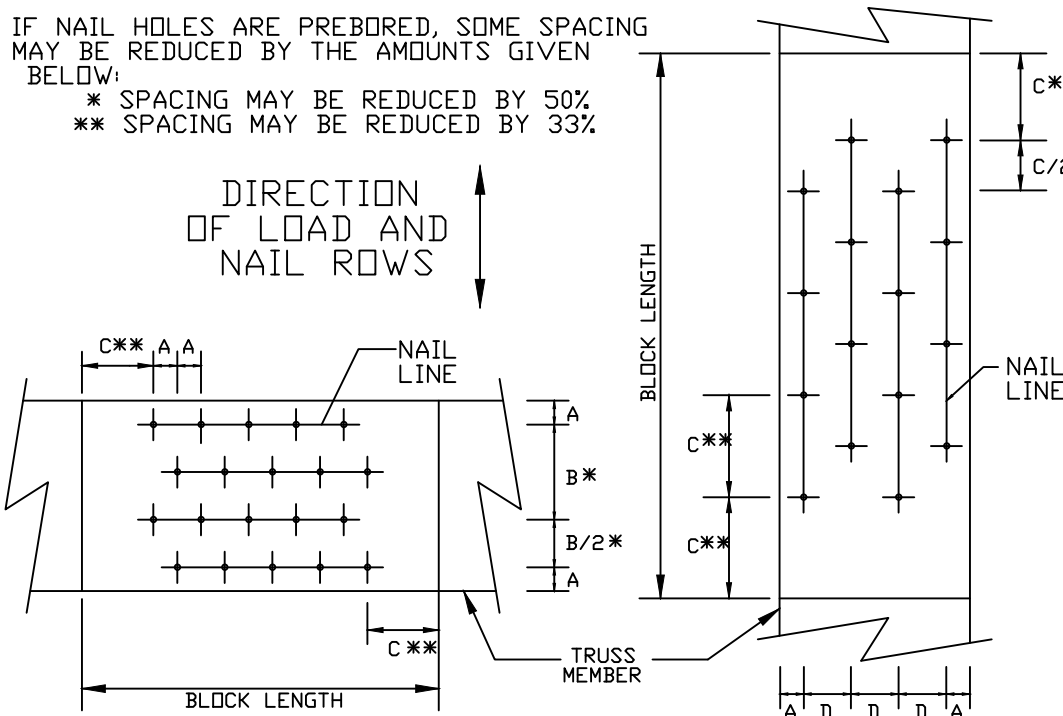
C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

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

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

\* SPACING MAY BE REDUCED BY 50%

\*\* SPACING MAY BE REDUCED BY 33%



MINIMUM NAIL SPACING DISTANCES

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

LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

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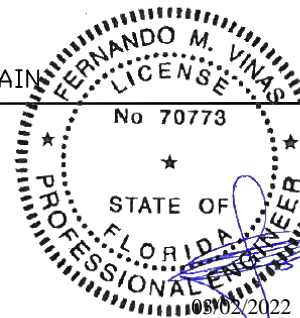
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COA#0-278

REF NAIL SPACE  
 DATE 10/01/14  
 DRWG CNNAILSP1014

## Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)  
D = Depth of Truss at Deflection Point (inches)

### Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

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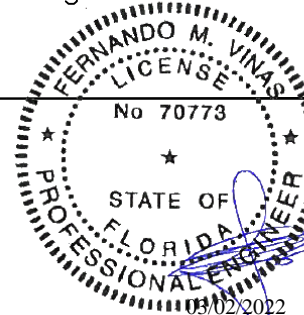
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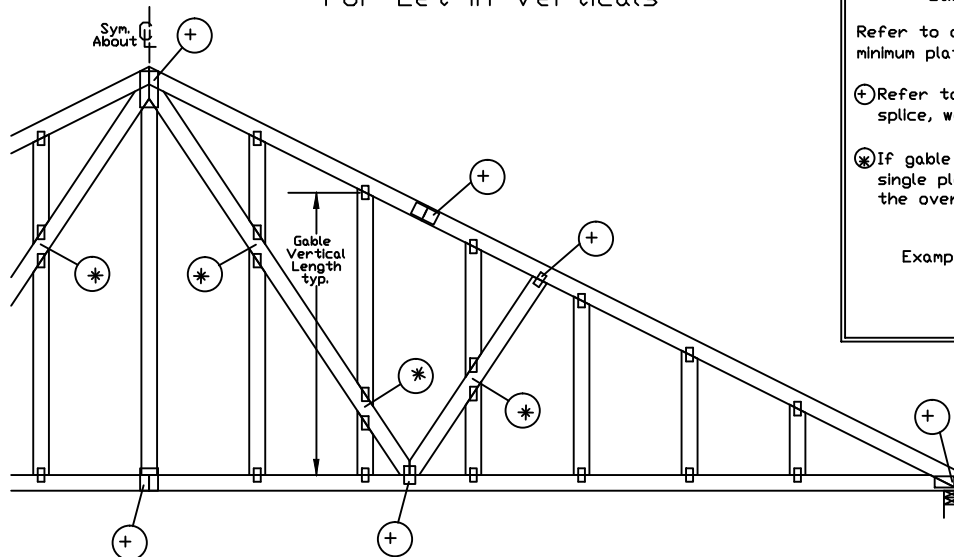
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COA#0-278

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

# Gable Detail For Let-in Verticals



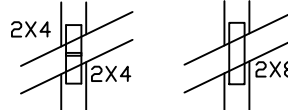
## Gable Truss Plate Sizes

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

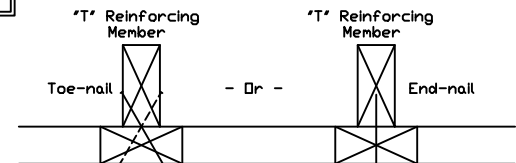
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



## "T" Reinforcement Attachment Detail



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

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

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

## Web Length Increase w/ "T" Brace

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

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

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

"T" Reinforcing Member Size = 2x4

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

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

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

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

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

(4) nails in the top and bottom chords.

Toenailed Nails:

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

(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,

A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,

A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,

A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,

A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,

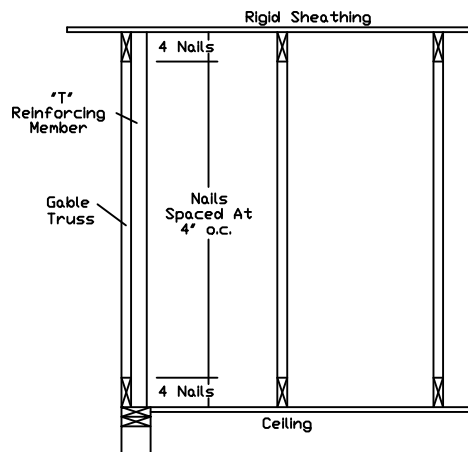
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S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,

S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,

S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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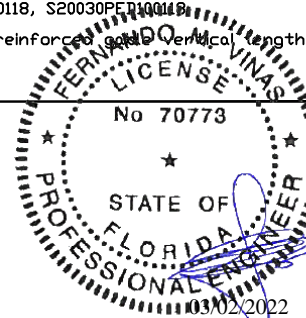
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COA#0-278

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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

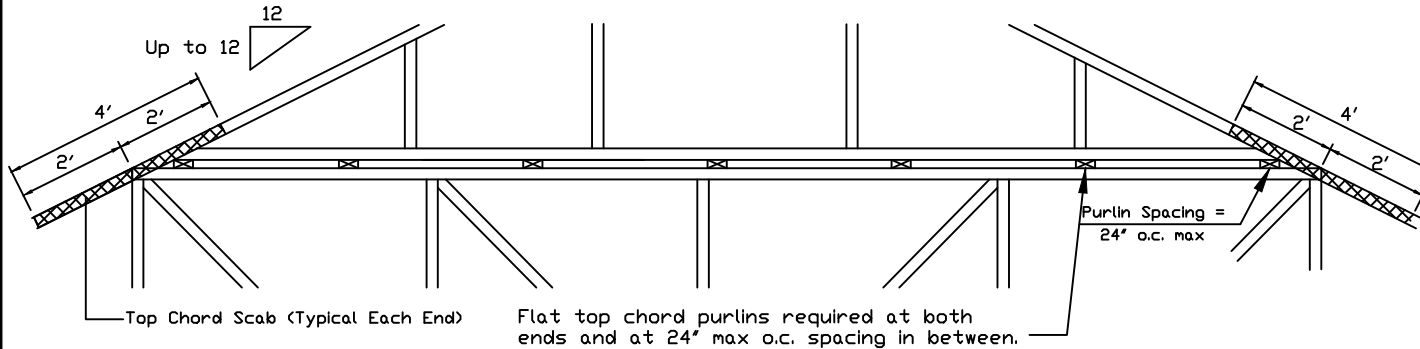
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.  
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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

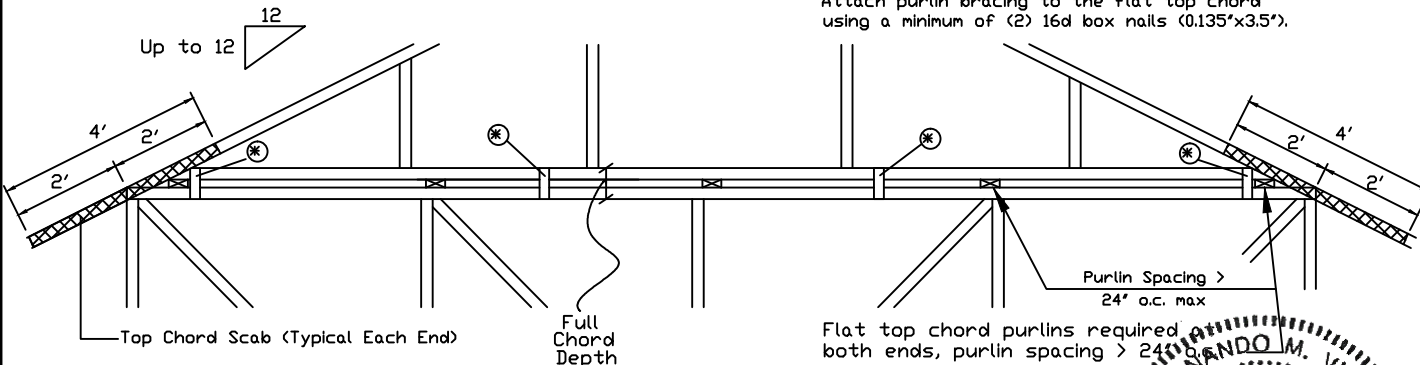


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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

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

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



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

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

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

**Trulox**  
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120x1.375 nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

**APA Rated Gusset**  
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

**2x4 Vertical Scabs**  
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

**28PB Wave Piggyback Plate**  
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120x1.375 nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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

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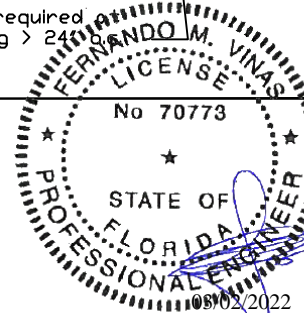
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COA#0-278

REF PIGGYBACK

DATE 01/02/2018

DRWG PB160160118

SPACING 24.0"