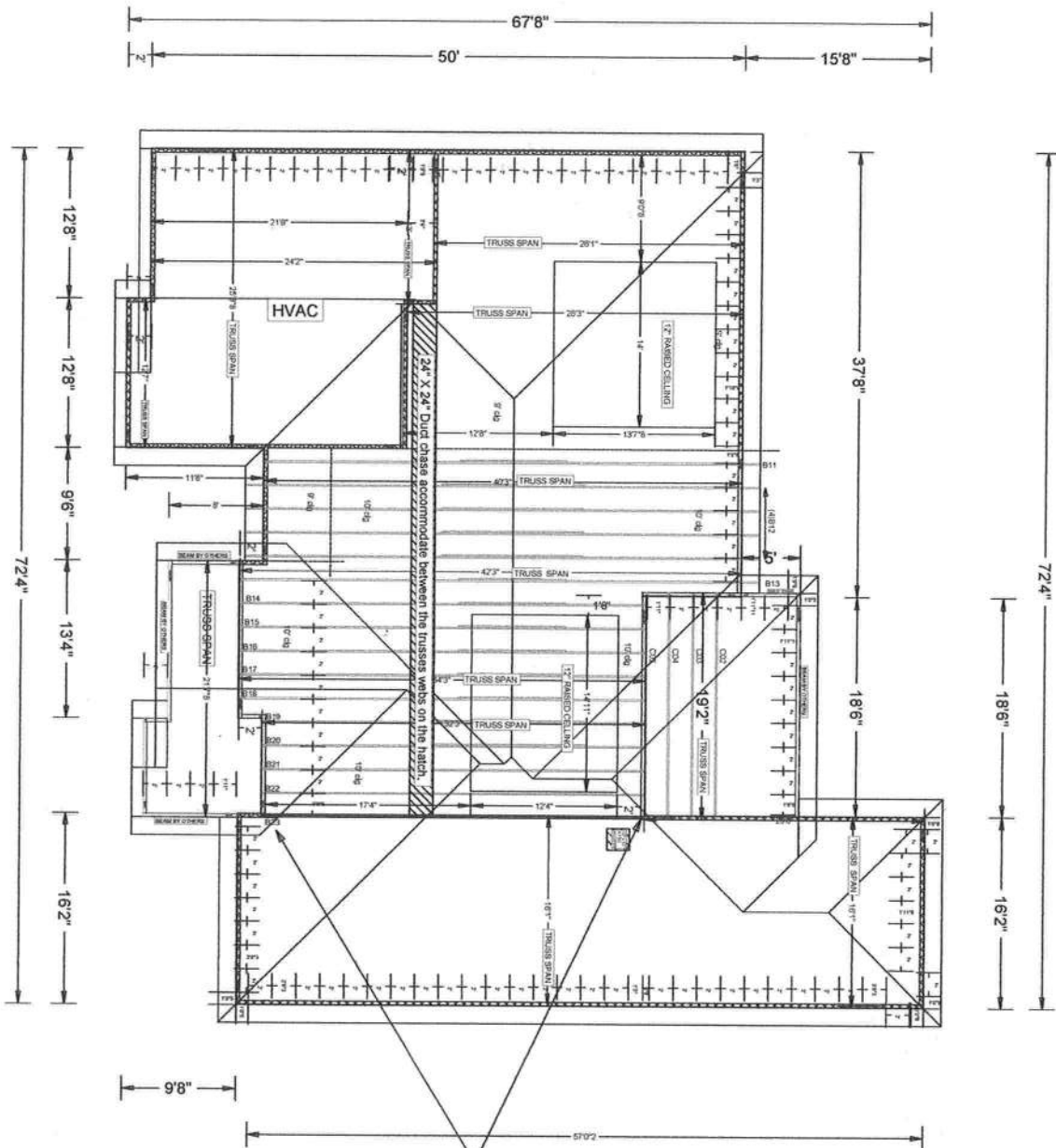




Total Truss Quantity = 154.

**B23 bearing at 9' height
**C02-C05 bearing at 11' with leg down to 9'

BEARING WALL & BEAM HEIGHTS	
09'00"00 ELEVATION	10'00"00
01'00"00 ELEVATION 1 PLY	11'00"00

JOB #: 21-6101RB

Job Name: Lot 20 Country Lakes - Ba
Customer: Gibraltar Contr.
Designer: Fill in later
ADDRESS:
SALESMAN: DB
: <Not Found>

JOB NO:
21-6101RB

PAGE NO:
1 OF 1



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



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

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



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 21-6101RB
Job Description: Lot 20 Country Lakes - Barnett	
Address:	

Job Engineering Criteria:
Design Code: FBC 7th Ed. 2020 Res.
IntelliVIEW Version: 21.01.01A
JRef #: 1XbK2150009
Wind Standard: ASCE 7-16 Wind Speed (mph): 130
Design Loading (psf): 40.00
Building Type: Closed

This package contains general notes pages, 17 truss drawing(s) and 1 detail(s).

Item	Drawing Number	Truss
1	356.21.1507.10537	B11
3	356.21.1507.15127	B13
5	356.21.1507.19010	B15
7	356.21.1507.23087	B17
9	356.21.1507.27583	B19
11	356.21.1507.31420	B21
13	356.21.1507.45333	B23
15	356.21.1507.50767	C03
17	356.21.1507.56043	C05

Item	Drawing Number	Truss
2	356.21.1507.12970	B12
4	356.21.1507.16933	B14
6	356.21.1507.21050	B16
8	356.21.1507.25173	B18
10	356.21.1507.29403	B20
12	356.21.1507.33287	B22
14	356.21.1507.47590	C02
16	356.21.1507.52647	C04
18	BRCLBSUB0119	

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

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

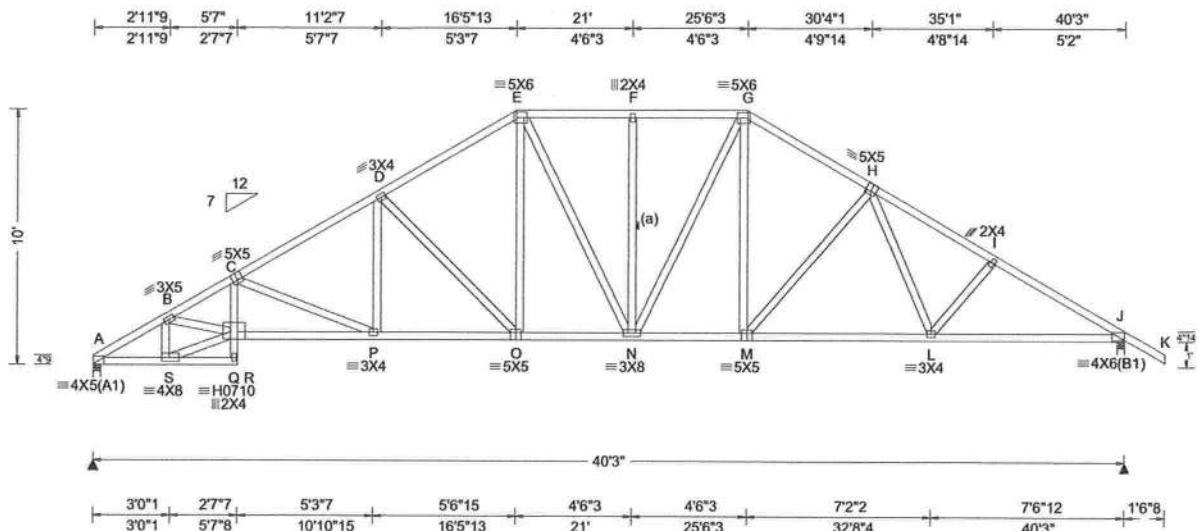
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

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

SEQN: 411298 FROM:	SPEC Qty: 1	Ply: 1 Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B11	Cust: R 215 JRef: 1Xbk2150009 T38 DrwNo: 356.21.1507.10537 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.02 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.190 O 999 240 VERT(CL): 0.393 O 999 180 HORZ(LL): 0.107 J - - HORZ(TL): 0.221 J - - Creep Factor: 2.0 Max TC CSI: 0.582 Max BC CSI: 0.886 Max Web CSI: 0.939 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1671 - / - / - / 989 / 57 / 290 J 1780 - / - / - / 1053 / 35 / - Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 2.0 J Brg Wid = 3.5 Min Req = 2.1 Bearings A & 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

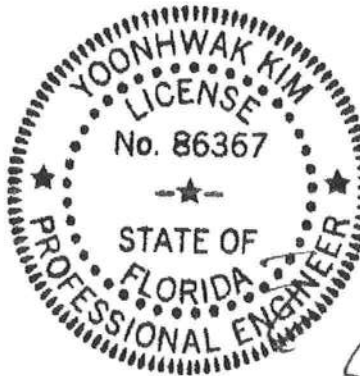
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



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12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - S	2344 -560	N - M	1782 -324
Q - P	3652 -864	M - L	2089 -439
P - O	2414 -518	L - J	2332 -536
O - N	1857 -346		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - S	298 -1078	P - D	552 -59
B - Q	1364 -318	D - O	248 -803
S - Q	2430 -576	E - O	679 -130
Q - C	924 -173	G - M	508 -84
C - P	373 -1322	M - H	180 -481

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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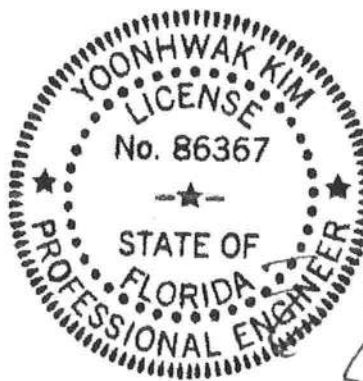
The drawing shows a roof truss system with the following details:

- Top Chord Members:**
 - A-B: 4X5(A1)
 - B-C: 3X5
 - C-D: 5X5
 - D-E: 3X4
 - E-F: 5X6
 - F-G: 2X4
 - G-H: 6X6
 - H-I: 5X5
 - I-J: 4X5(B1)
- Bottom Chord Members:**
 - A-B: 4X5(A1)
 - B-C: 4X8
 - C-D: H0710
 - D-E: 2X4
 - E-F: 3X4
 - F-G: 5X6
 - G-H: 3X8
 - H-I: 5X6
 - I-J: 2X4
 - J-K: 4X5(B1)
- Vertical Members:**
 - C-D: 5X5
 - E-F: 3X4
 - F-G: 2X4
 - G-H: 6X6
 - H-I: 5X5
 - I-J: 4X5(B1)
- Dimensions:**
 - Overall Width:** 40'3"
 - Overall Height:** 9'11 1/2"
 - Horizontal Spacing (from left to right):** 1'6"8, 3'0"1, 2'7"7, 5'2"10, 4'2"2, 5'11"12, 5'11"12, 6'5"5, 6'9"15, 1'6"8.
 - Horizontal Spacing (from right to left):** 40'3", 6'11"3, 6'4"1, 26'11"12, 5'11"12, 21', 15'0"4, 10'10"2, 5'7"8, 3'0"1, 1'6"8.
 - Vertical Spacing (from bottom to top):** 4", 1'1", 10', 9'11 1/2".
 - Roof Pitch:** 12/7

Lumber	C - D	1100 - 4176	G - H	802 - 2130
Top chord: 2x4 SP #2;	D - E	843 - 2885	H - I	758 - 2288
Bot chord: 2x4 SP #2;	E - F	810 - 2366	I - J	752 - 2768

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

The overall height of this truss excluding overhang is 9-1-12.



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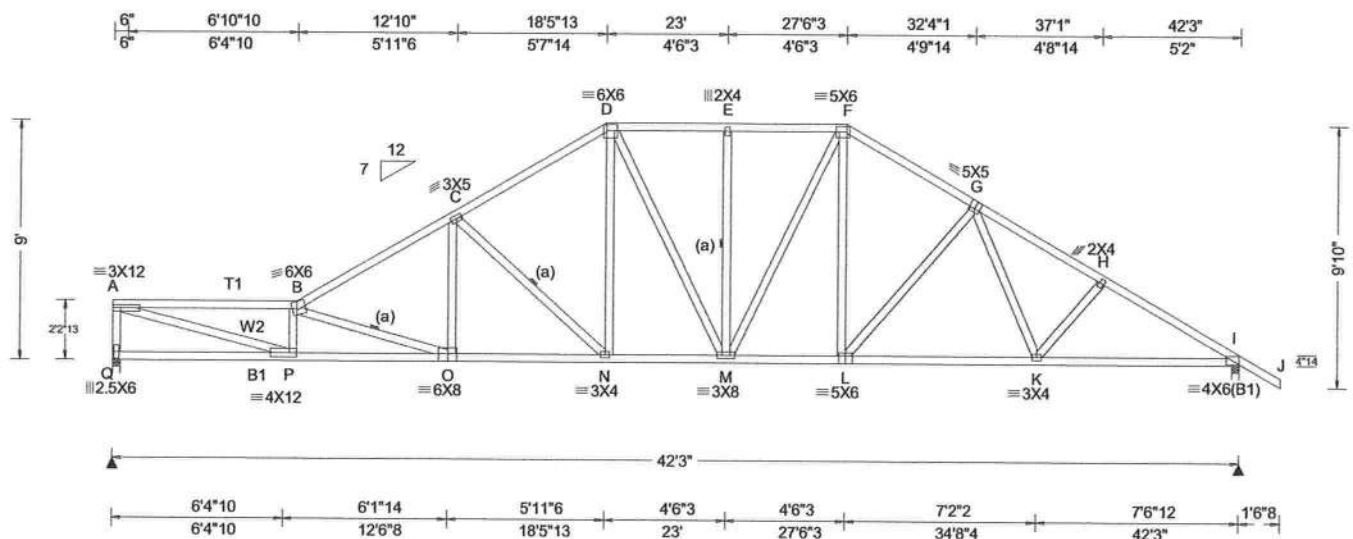
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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



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 Orlando FL, 32821

SEQN: 411310 FROM:	COMN Qty: 1	Ply: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B13	Cust: R 215 JRef: 1XbK2150009 T1 DrwNo: 356.21.1507.15127 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.57 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.22 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.308 O 999 240 VERT(CL): 0.637 O 793 180 HORZ(LL): 0.077 I - - HORZ(TL): 0.159 I - - Creep Factor: 2.0 Max TC CSI: 0.780 Max BC CSI: 0.888 Max Web CSI: 0.616 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1748 - / - / 961 - / 250 I 1869 - / - / 1119 - / - Wind reactions based on MWFRS Q Brg Wid = 3.5 Min Req = 1.5 I Brg Wid = 3.5 Min Req = 2.2 Bearings Q & 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.

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; W2 2x4 SP M-31;

Bracing

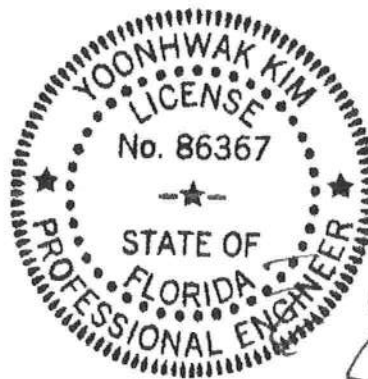
(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

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

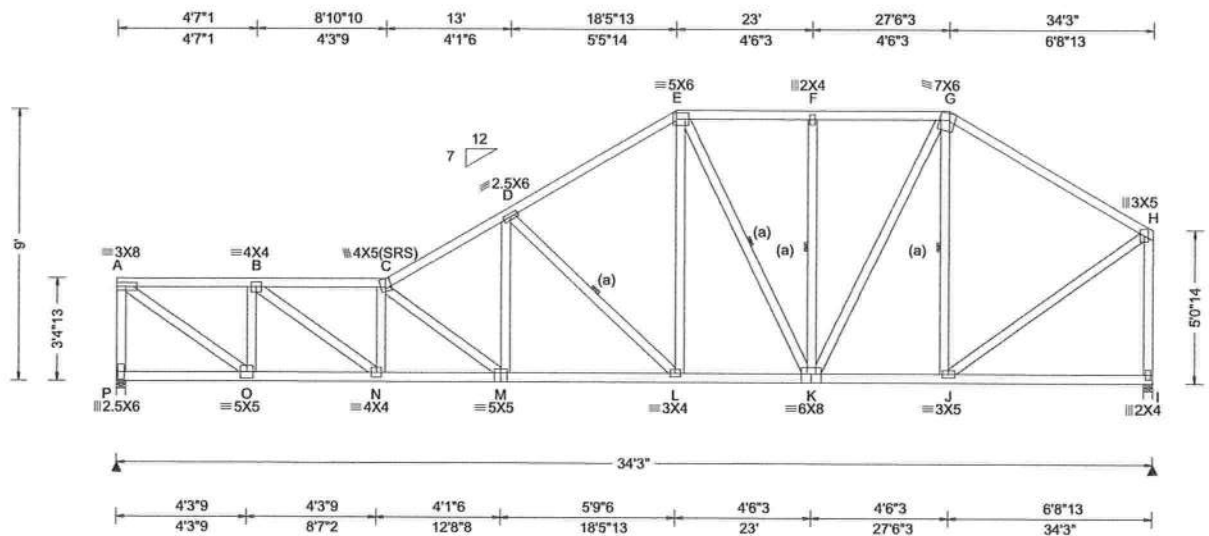


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12/22/2021

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SEQN: 411307 FROM:	COMN Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B14	Cust: R 215 JRef: 1Xbk2150009 T36 DrwNo: 356.21.1507.16933 / YK 12/22/2021
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria				▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#				Gravity			Non-Gravity			
TCDL: 10.00		Speed: 130 mph		Pf: NA Ce: NA			VERT(LL): 0.144 M 999 240				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA			VERT(CL): 0.298 M 999 180				P	1424	/-	/-	/770	/31	/148
BCDL: 10.00		Risk Category: II		Snow Duration: NA			HORZ(LL): 0.043 A - -				I	1424	/-	/-	/747	/-	/-
Des Ld: 40.00		EXP: C Kzt: NA		Building Code:			HORZ(TL): 0.089 A - -				Wind reactions based on MWFRS						
NCBCLL: 10.00		Mean Height: 17.52 ft		FBC 7th Ed. 2020 Res.			Creep Factor: 2.0				P	Brg Wid = 3.5		Min Req = 1.7			
Soffit: 2.00		TCDL: 5.0 psf		TPI Std: 2014			Max TC CSI: 0.815				I	Brg Wid = 3.5		Min Req = 1.7			
Load Duration: 1.25		BCDL: 5.0 psf		Rep Fac: Yes			Max BC CSI: 0.705				Bearings P & I are a rigid surface.						
Spacing: 24.0 *		MWFRS Parallel Dist: > 2h		FT/RT:20(0)/10(0)			Max Web CSI: 0.822				Members not listed have forces less than 375#						
		C&C Dist a: 3.42 ft		Plate Type(s):							Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: not in 9.00 ft		GCpi: 0.18							Chords	Tens.Comp.		Chords	Tens. Comp.		
		Wind Duration: 1.60		WAVE			VIEW Ver: 21.01.01A.0521.20				A - B	412 -1756		E - F	148 -1245		

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	1865 - 508	L - K	1414 - 78
N - M	3031 - 592	K - J	922 - 3
M - L	2136 - 318		

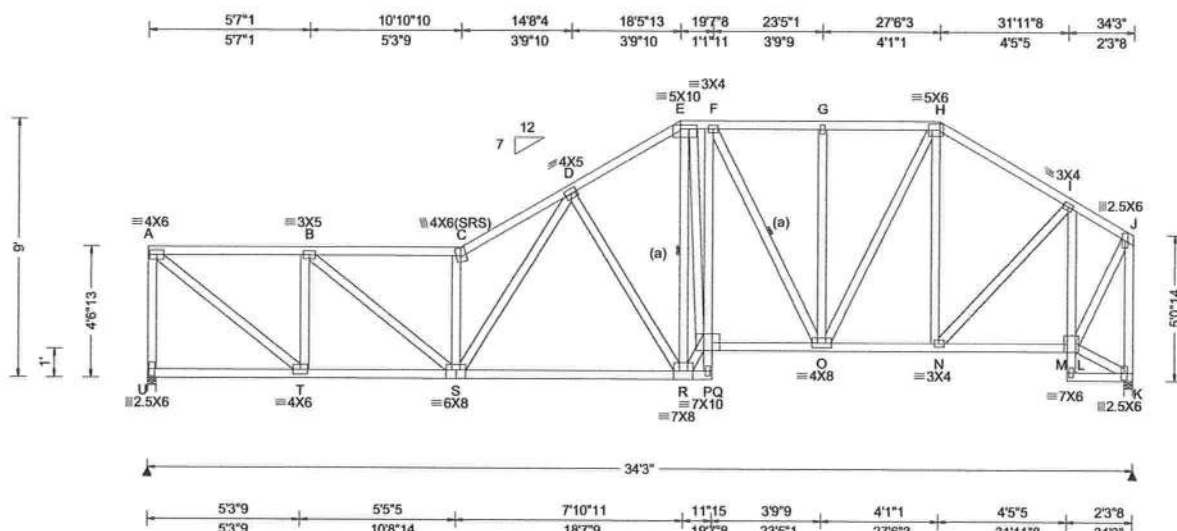
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - P	400 - 1385	D - L	336 - 1010
A - O	2157 - 504	E - L	820 - 178
O - B	347 - 1172	K - G	700 - 0
B - N	1382 - 95	G - J	73 - 511
N - C	97 - 783	J - H	1129 - 4
C - M	344 - 1110	H - I	115 - 1369
M - D	805 - 167		

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

ALPINE
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6750 Forum Drive
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SEQN: 411314 FROM:	COMN Qty: 1	Ply: 1 Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B15	Cust: R 215 JRef: 1Xbk2150009 T46 DrwNo: 356.21.1507.19010 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.78 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.42 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): 0.155 C 999 240 VERT(CL): 0.322 C 999 180 HORZ(LL): 0.078 K - - HORZ(TL): 0.162 K - - Creep Factor: 2.0 Max TC CSI: 0.460 Max BC CSI: 0.778 Max Web CSI: 0.982 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U 1424 /- /- /743 /135 /116 K 1424 /- /- /743 /81 /- Wind reactions based on MWFRS U Brg Wid = 3.5 Min Req = 1.7 K Brg Wid = 3.5 Min Req = 1.7 Bearings U & 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.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

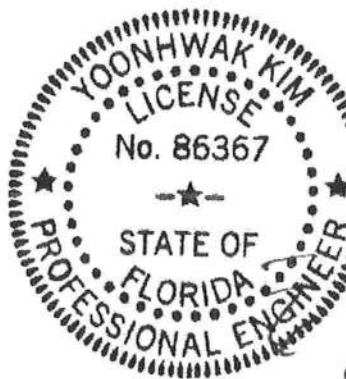
All plates are 2X4 except as noted.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	1616 - 722	O - N	1017 - 370
S - R	1864 - 737	N - L	626 - 231
P - O	1655 - 636		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - U	656 - 1381	R - P	2577 - 942
A - T	1978 - 852	P - F	444 - 93
T - B	589 - 1125	F - O	211 - 582
B - S	1117 - 352	O - H	780 - 362
S - C	772 - 1711	N - I	591 - 211
S - D	1296 - 547	I - L	396 - 930
D - R	405 - 867	L - J	1178 - 434
E - R	549 - 1180	J - K	520 - 1396
E - P	1822 - 810		

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

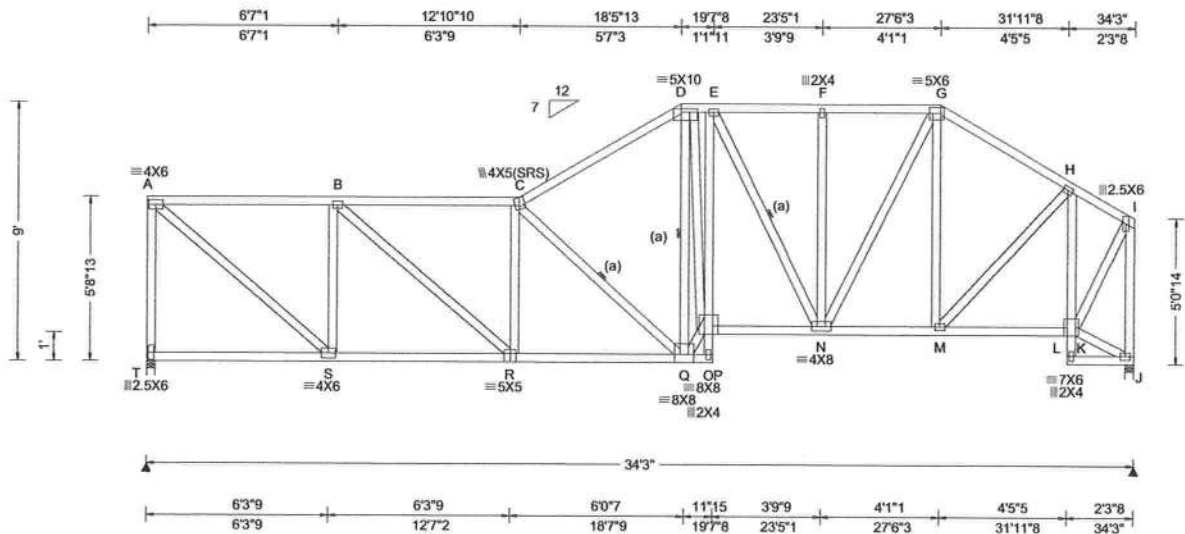
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6750 Forum Drive
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SEQN: 411317 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B16	Cust: R 215 JRef: 1XbK2150009 T49 DrwNo: 356.21.1507.21050 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.35 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.42 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): 0.135 O 999 240 VERT(CL): 0.282 O 999 180 HORZ(LL): 0.078 J - - HORZ(TL): 0.163 J - - Creep Factor: 2.0 Max TC CSI: 0.592 Max BC CSI: 0.697 Max Web CSI: 0.982 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL T 1424 /- /- /734 /82 /105 J 1424 /- /- /803 /- /- Wind reactions based on MWFRS T Brg Wid = 3.5 Min Req = 1.7 J Brg Wid = 3.5 Min Req = 1.7 Bearings T & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	1456 -197	N - M	1017 0
R - Q	2137 -92	M - K	626 -6
O - N	1655 0		

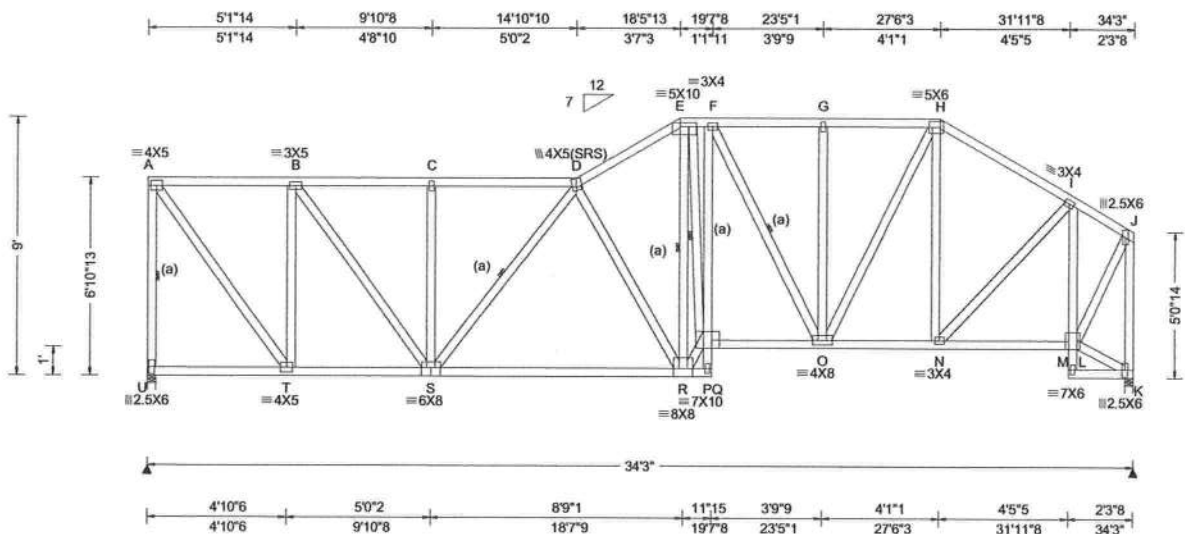
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - T	418 -1374	Q - O	2577 0
A - S	1849 -420	O - E	508 -3
S - B	348 -1062	E - N	18 -581
B - R	884 0	N - G	780 0
R - C	0 -497	M - H	591 0
C - Q	259 -1002	H - K	38 -930
D - Q	0 -1294	K - I	1178 -9
D - O	1806 0	I - J	19 -1396

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
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SEQN: 411320 FROM:	COMN Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B17	Cust: R 215 JRef: 1XbK2150009 T53 DrwNo: 356.21.1507.23087 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCDL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.04 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.42 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): 0.123 P 999 240 VERT(CL): 0.257 P 999 180 HORZ(LL): 0.076 K - - HORZ(TL): 0.157 K - - Creep Factor: 2.0 Max TC CSI: 0.340 Max BC CSI: 0.862 Max Web CSI: 0.982 VIEW Ver: 21.01.01A.0521.20	Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U 1424 - / - / 711 / 202 / 103 K 1424 - / - / 763 / 72 - / - Wind reactions based on MWFRS U Brg Wid = 3.5 Min Req = 1.7 K Brg Wid = 3.5 Min Req = 1.7 Bearings U & 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. A - B 460 -920 F - G 728 -1383 B - C 751 -1543 G - H 729 -1384 C - D 751 -1543 H - I 586 -1251 D - E 806 -1690 I - J 298 -722 E - F 843 -1639

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

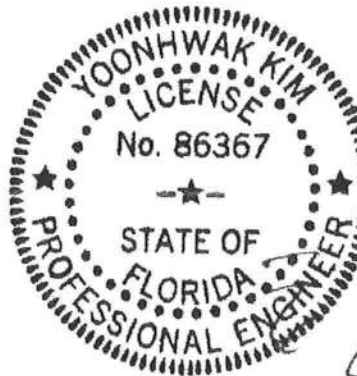
All plates are 2X4 except as noted.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	971 -455	O - N	1017 -409
S - R	1821 -844	N - L	626 -246
P - O	1655 -725		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - U	742 -1383	R - P	2579 -1086
A - T	1553 -777	P - F	440 -148
T - B	671 -1151	F - O	281 -582
B - S	983 -448	O - H	780 -421
S - D	216 -461	N - I	591 -246
D - R	493 -844	I - L	419 -930
E - R	592 -1189	L - J	1178 -461
E - P	1818 -898	J - K	551 -1396

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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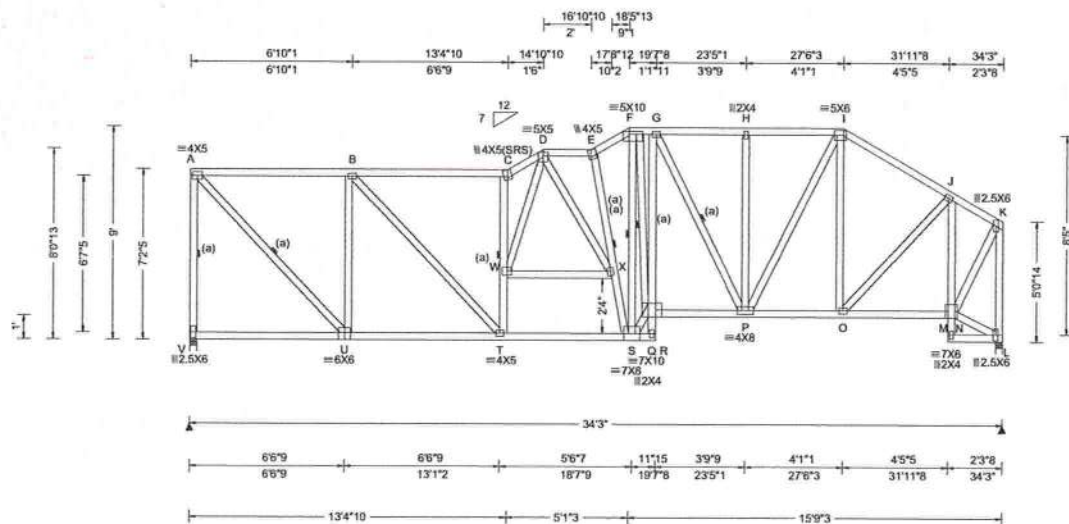
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ALPINE
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 411323 FROM:	COMN Qty: 1	Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B18	Cust: R 215 JRef: 1Xbk2150009 T19 DrwNo: 356.21.1507.25173 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.04 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.42 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 U/# VERT(LL): 0.153 C 999 240 VERT(CL): 0.319 C 999 180 HORZ(LL): 0.072 L - - HORZ(TL): 0.150 L - - Creep Factor: 2.0 Max TC CSI: 0.857 Max BC CSI: 0.775 Max Web CSI: 0.980 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL V 1424 /- /- /712 /207 /103 L 1424 /- /- /768 /79 /- Wind reactions based on MWFRS V Brg Wid = 3.5 Min Req = 1.7 L Brg Wid = 3.5 Min Req = 1.7 Bearings V & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

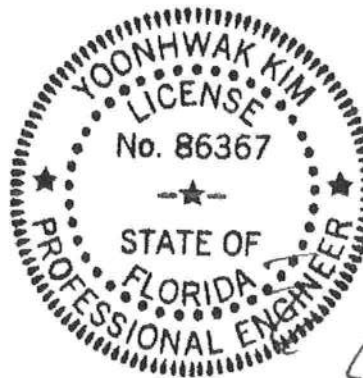
All plates are 3X4 except as noted.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
U - T	1189 -548	P - O	1017 -422
T - S	1631 -734	O - M	626 -253
Q - P	1655 -734		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - V	762 -1374	F - Q	1847 -867
A - U	1664 -844	S - Q	2572 -1118
U - B	681 -1045	Q - G	416 -125
B - T	713 -308	G - P	278 -582
T - W	311 -455	P - I	780 -417
W - C	703 -1229	O - J	591 -256
W - D	813 -419	J - M	430 -930
E - X	533 -985	M - K	1178 -474
X - S	471 -854	K - L	557 -1396
F - S	480 -1097		

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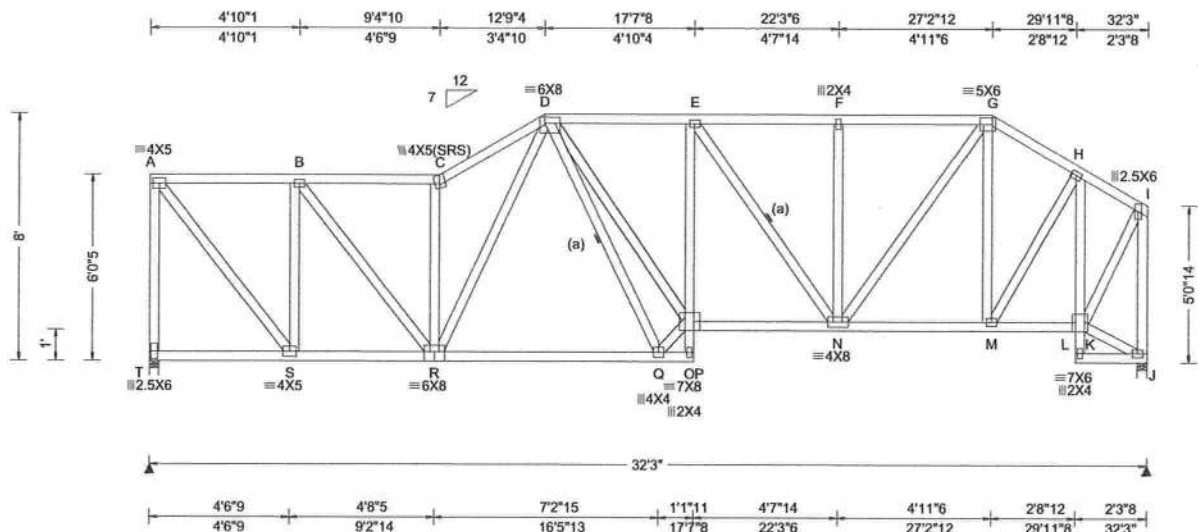
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ALPINE
ANTW COMPANY
6750 Forum Drive
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SEQN: 411326 FROM:	COMN Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B19	Cust: R 215 JRef: 1Xbk2150009 T52 DwnNo: 356.21.1507.27583 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.35 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.22 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): 0.094 O 999 240 VERT(CL): 0.196 O 999 180 HORZ(LL): 0.048 J - - HORZ(TL): 0.100 J - - Creep Factor: 2.0 Max TC CSI: 0.325 Max BC CSI: 0.590 Max Web CSI: 0.840 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL T 1341 /- /- /688 /28 /78 J 1341 /- /- /725 /- /- Wind reactions based on MWFRS T Brg Wid = 3.5 Min Req = 1.6 J Brg Wid = 3.5 Min Req = 1.6 Bearings T & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

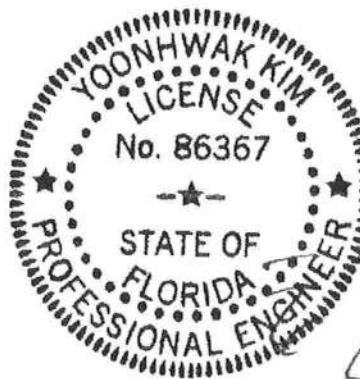
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

Plating Notes
All plates are 3X4 except as noted.

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

Additional Notes
The overall height of this truss excluding overhang is 8-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	994 -187	N - M	865 0
R - Q	1349 -31	M - K	576 0
O - N	1688 0		

Webs	Tens.Comp.	Webs	Tens. Comp.
A - T	344 -1303	Q - O	1417 0
A - S	1510 -297	E - N	64 -491
S - B	280 -1085	N - G	905 0
B - R	920 0	G - M	0 -476
R - C	303 -1131	M - H	600 0
D - D	560 -313	H - K	0 -858
R - Q	82 -995	K - I	1083 0
D - O	1282 0	I - J	0 -1312

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

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

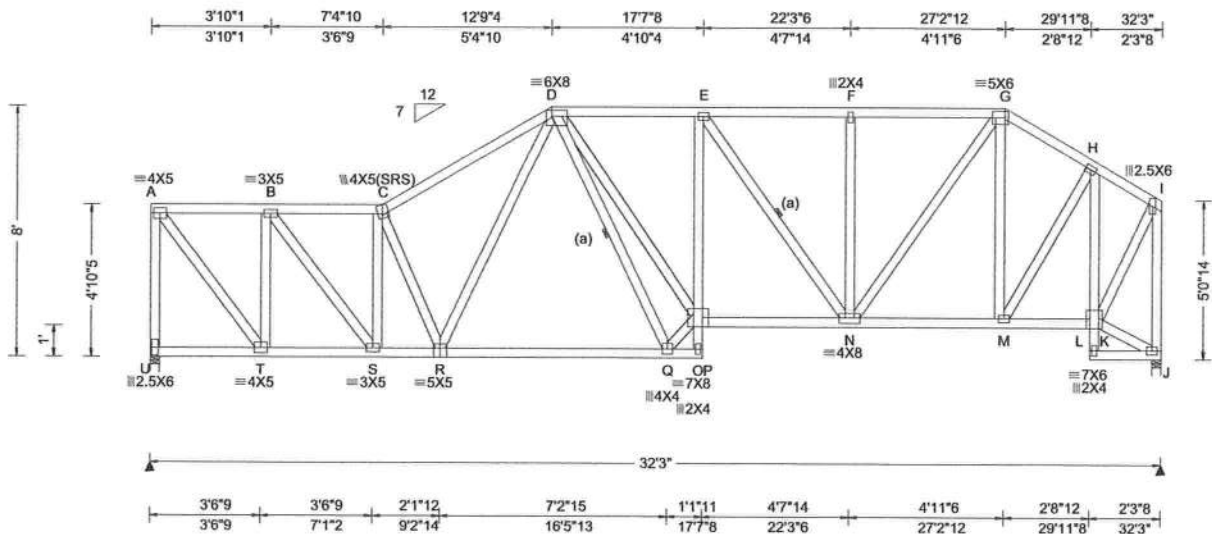
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

SEQN: 411329 FROM:	COMN Qty: 1	Ply: 1 Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B20	Cust: R 215 JRef: 1XBK2150009 T5 DrwNo: 356.21.1507.29403 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.25 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.22 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): 0.094 O 999 240 VERT(CL): 0.196 O 999 180 HORZ(LL): 0.050 J - - HORZ(TL): 0.105 J - - Creep Factor: 2.0 Max TC CSI: 0.351 Max BC CSI: 0.588 Max Web CSI: 0.631 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U 1341 - / - / 709 - / 84 J 1341 - / - / 717 - / - Wind reactions based on MWFRS U Brg Wid = 3.5 Min Req = 1.6 J Brg Wid = 3.5 Min Req = 1.6 Bearings U & 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 8'-0".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	1013 -171	O - N	1686 0
S - R	1694 -162	N - M	865 0
R - Q	1355 0	M - K	576 0

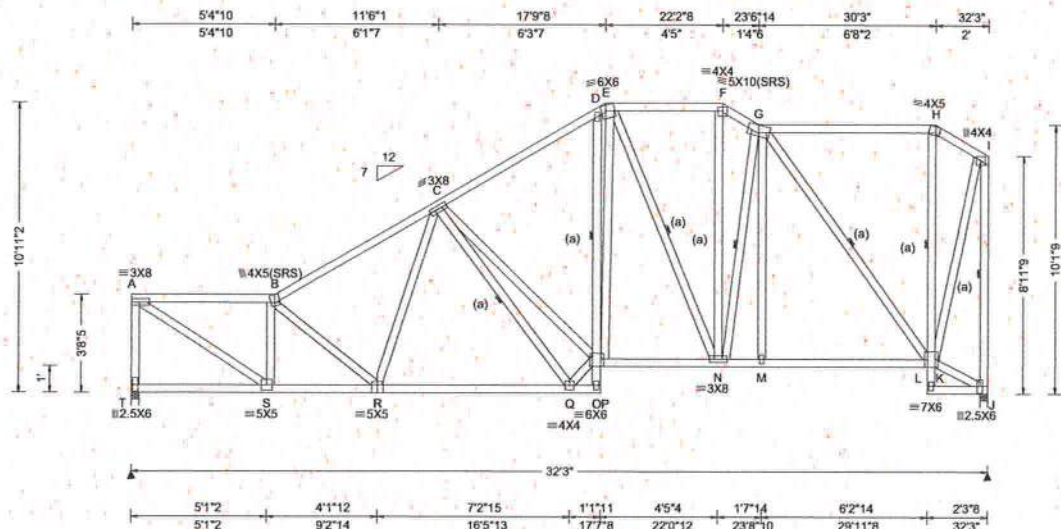
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - U	277 -1312	Q - O	1423 0
A - T	1534 -234	E - N	36 -488
T - B	228 -1127	N - G	905 0
B - S	1079 0	G - M	0 -476
S - C	6 -854	M - H	600 0
R - D	484 -200	H - K	0 -858
D - Q	50 -1001	K - I	1083 0
D - O	1274 0	I - J	0 -1312

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSA (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSA. 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 BCSA 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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6750 Forum Drive
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SEQN: 411332 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B21	Cust: R 215 JRef: 1XbK2150009 T60 DrwNo: 356.21.1507.31420 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.31 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.22 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): 0.089 D 999 240 VERT(CL): 0.185 D 999 180 HORZ(LL): 0.048 J - - HORZ(TL): 0.100 J - - Creep Factor: 2.0 Max TC CSI: 0.497 Max BC CSI: 0.593 Max Web CSI: 0.787 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL T 1341 /- /- /753 /66 /192 J 1341 /- /- /731 /175 /- Wind reactions based on MWFRS T Brg Wid = 3.5 Min Req = 1.6 J Brg Wid = 3.5 Min Req = 1.6 Bearings T & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

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

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

Plating Notes
All plates are 2X4 except as noted.

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

Additional Notes
The overall height of this truss excluding overhang is 10-11-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

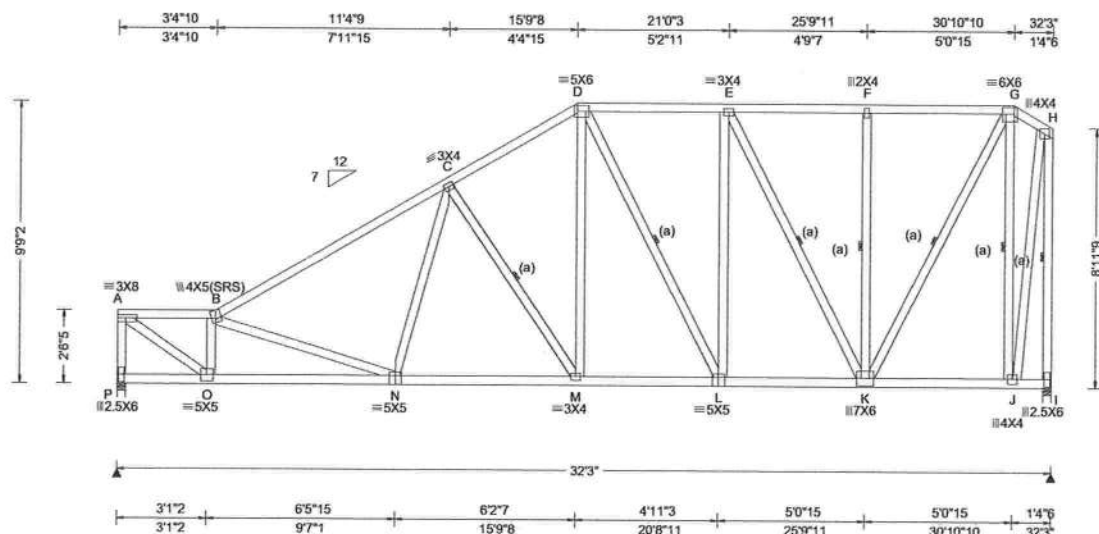
Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	1821 -763	N - M	987 -423
R - Q	1459 -590	M - K	990 -423
O - N	1151 -468		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
A - T	483 -1291	O - E	808 -274
A - S	2066 -626	E - N	145 -415
S - B	398 -1064	N - F	475 -205
R - C	396 -75	G - K	457 -1101
C - Q	509 -1025	K - I	1187 -543
C - O	440 -255	I - J	573 -1315
Q - O	1319 -438		

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 411335 FROM:	COMN Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B22	Cust: R 215 JRef: 1XbK2150009 T56 DrwNo: 356.21.1507.33287 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.14 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.22 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): 0.085 C 999 240 VERT(CL): 0.176 C 999 180 HORZ(LL): 0.027 A - - HORZ(TL): 0.055 A - - Creep Factor: 2.0 Max TC CSI: 0.871 Max BC CSI: 0.588 Max Web CSI: 0.905 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P 1341 - / - / 776 / 84 / 189 I 1341 - / - / 726 / 212 / - Wind reactions based on MWFRS P Brg Wid = 3.5 Min Req = 1.6 I Brg Wid = 3.5 Min Req = 1.6 Bearings P & 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 537 - 1774 D - E 525 - 1063 B - C 582 - 1915 E - F 387 - 750 C - D 591 - 1434 F - G 387 - 750

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	1929 - 835	M - L	1155 - 509
N - M	1481 - 638	L - K	1054 - 498

Maximum Web Forces Per Ply (lbs)

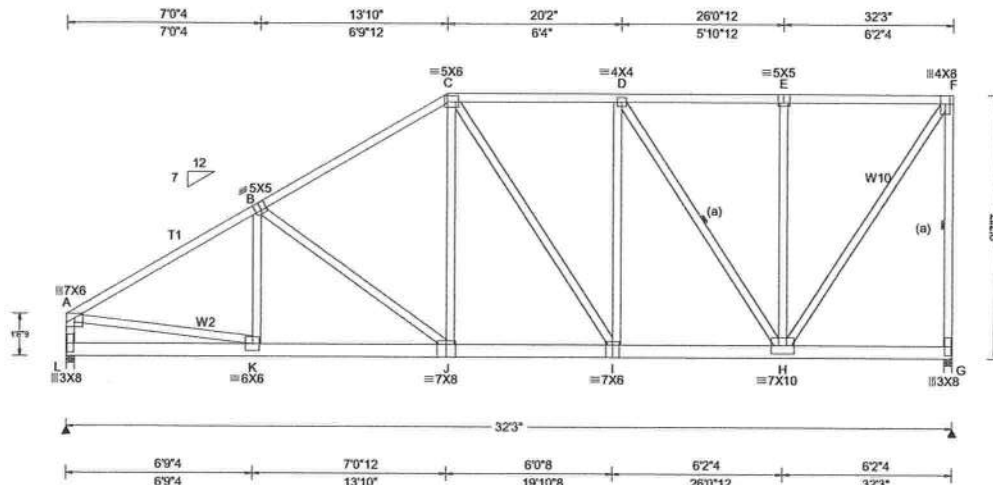
Webs	Tens.Comp.	Webs	Tens. Comp.
A - P	438 - 1315	E - K	308 - 675
O - B	2183 - 659	K - G	1182 - 570
A - B	451 - 1194	G - J	629 - 1155
B - N	208 - 403	J - H	1222 - 580
C - M	236 - 594	H - I	608 - 1326
D - M	607 - 141		

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AN ITW COMPANY
6750 Forum Drive
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Orlando FL, 32821

SEQN: 411370 FROM:	HIPM Qty: 1	Ply: 2 Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: B23	Cust: R 215 JRef: 1XbK2150009 T3 DrwNo: 356.21.1507.45333 / YK 12/22/2021
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 10.00 BCCL: 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 TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.22 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: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.124 J 999 240 VERT(CL): 0.249 J 999 180 HORZ(LL): 0.034 B - - HORZ(TL): 0.069 B - - Creep Factor: 2.0 Max TC CSI: 0.491 Max BC CSI: 0.481 Max Web CSI: 0.895 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 5796 /- /- /- /1174 /- G 5849 /- /- /- /1003 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.4 G Brg Wid = 3.5 Min Req = 2.4 Bearings L & 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 786 - 3898 D - E 290 - 1674 B - C 575 - 3052 E - F 290 - 1674 C - D 444 - 2499

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x6 SP 2400F-2.0E;
Webs: 2x4 SP #3; W2,W10 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 4.75" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 3.06
TC: From 32 plf at 3.06 to 32 plf at 32.25
BC: From 20 plf at 0.00 to 20 plf at 3.06
BC: From 10 plf at 3.06 to 10 plf at 32.25
BC: 1134 lb Conc. Load at 3.06
BC: 646 lb Conc. Load at 5.06, 7.06, 9.06, 11.06
15.06, 17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06
31.06
BC: 644 lb Conc. Load at 13.06

Wind

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

Additional Notes

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

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

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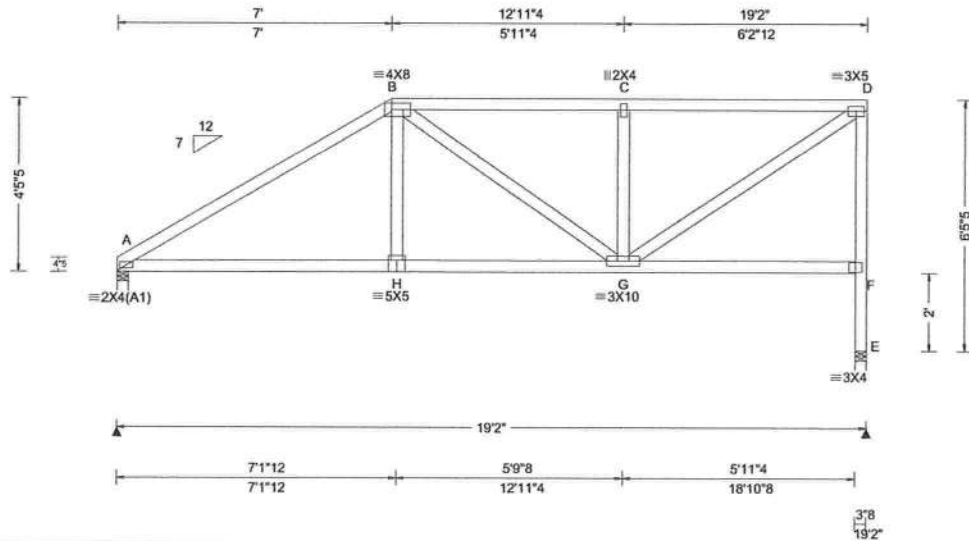
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ALPINE
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6750 Forum Drive
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Orlando FL, 32821

SEQN: 411338 FROM:	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: C02	Cust: R 215 JRef: 1XbK2150009 T43 DrwNo: 356.21.1507.47590 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.027 C 999 240 VERT(CL): 0.056 C 999 180 HORZ(LL): 0.010 B - - HORZ(TL): 0.020 B - - Creep Factor: 2.0 Max TC CSI: 0.554 Max BC CSI: 0.488 Max Web CSI: 0.937 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 797 /- /- /480 /118 /217 E 791 /- /- /408 /167 /- Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 3.5 Min Req = 1.5 Bearings A & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 531 -1136 C - D 596 -848 B - C 597 -848

Lumber

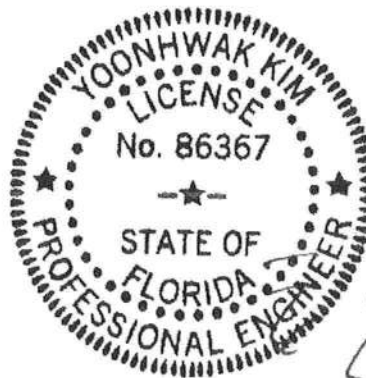
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-5".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	896 -656	H - G	901 -654

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
G - D	1046 -727	F - E	549 -791
C - G	507 -425	F - D	571 -739

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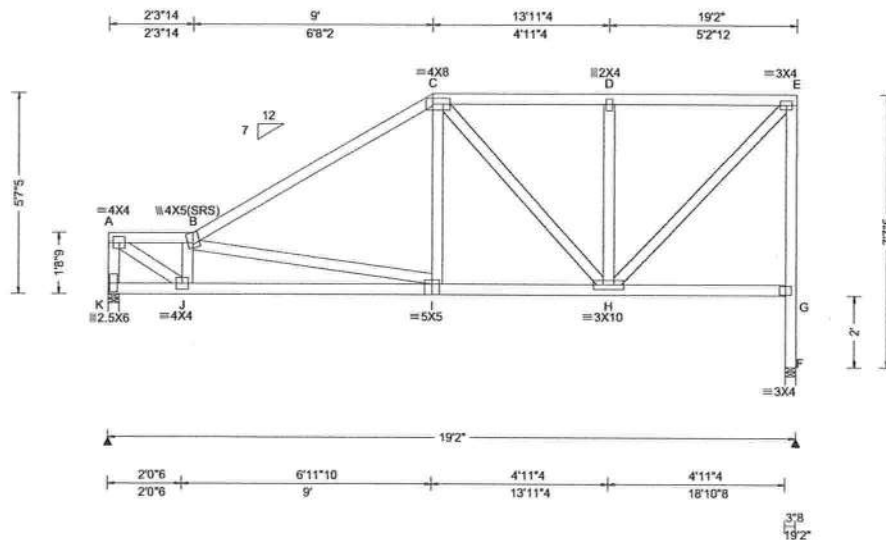
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 411341 FROM:	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: C03	Cust: R 215 JRef: 1Xbk2150009 T6 DrwNo: 356.21.1507.50767 / YK 12/22/2021
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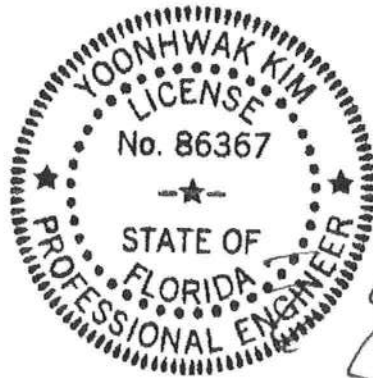


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.030 I 999 240 VERT(CL): 0.061 I 999 180 HORZ(LL): 0.013 A - - HORZ(TL): 0.026 A - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.510 Max Web CSI: 0.924 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 791 /- /- /457 /110 /212 F 797 /- /- /425 /175 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings K & 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 416 - 1119 C - D 406 - 590 B - C 428 - 977 D - E 406 - 589

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.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

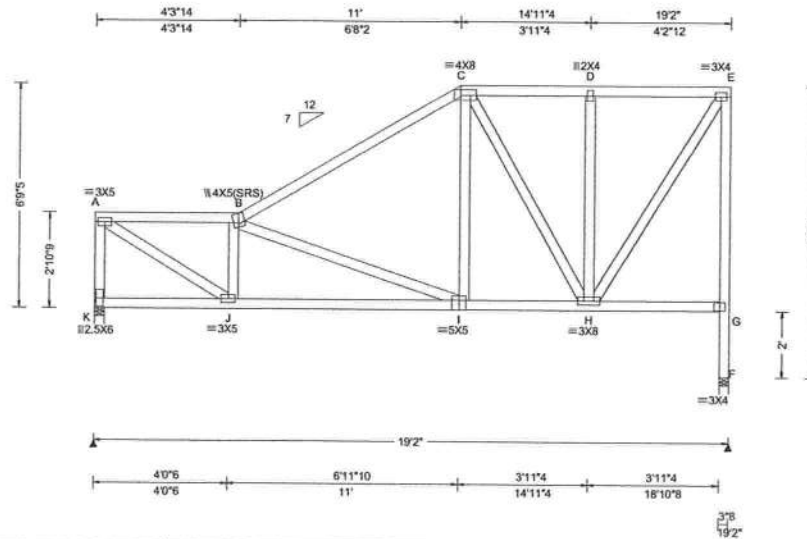
Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	1259 - 767	I - H	755 - 568

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
A - K	334 - 787	H - E	867 - 573
A - J	1363 - 504	D - H	427 - 343
J - B	371 - 695	G - F	540 - 797
B - I	215 - 516	G - E	557 - 754

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 411344 FROM:	HIPS Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: C04	Cust: R 215 JRef: 1Xbk2150009 T47 DrwNo: 356.21.1507.52647 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.83 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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): 0.032 B 999 240 VERT(CL): 0.065 B 999 180 HORZ(LL): 0.012 A - - HORZ(TL): 0.025 A - - Creep Factor: 2.0 Max TC CSI: 0.510 Max BC CSI: 0.477 Max Web CSI: 0.919 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 791 /- /- /444 /103 /213 F 797 /- /- /440 /183 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings K & 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 419 -1044 C - D 280 -407 B - C 335 -804 D - E 280 -407

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.

Additional Notes

The overall height of this truss excluding overhang is 6-9-5.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	1105 -736	I - H	603 -485

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - K	398 -762	C - H	154 -377
A - J	1233 -491	H - E	773 -498
J - B	336 -550	G - F	536 -797
B - I	276 -538	G - E	545 -761
C - I	383 -47		

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

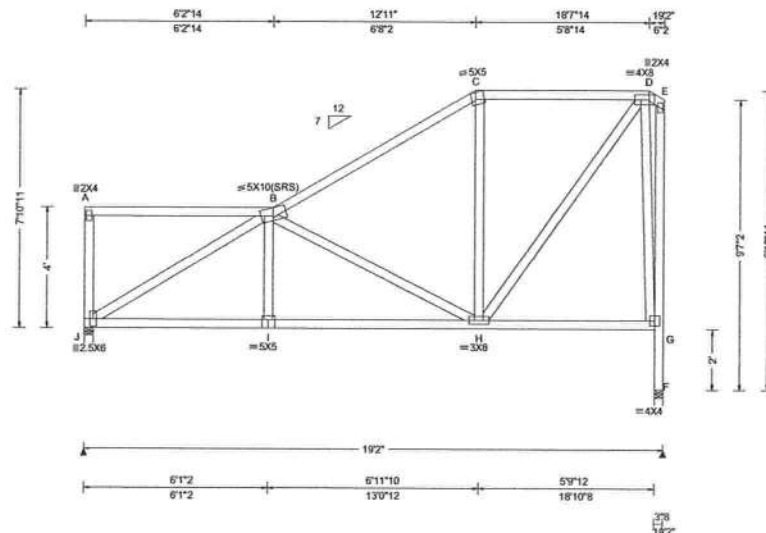
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 411347 FROM:	SPEC Qty: 1	Job Number: 21-6101RB Lot 20 Country Lakes - Barnett Truss Label: C05	Cust: R 215 JRef: 1XbK2150009 T30 DrwNo: 356.21.1507.56043 / YK 12/22/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.95 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.029 999 240 VERT(CL): 0.060 999 180 HORZ(LL): 0.010 A - - HORZ(TL): 0.020 A - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.473 Max Web CSI: 0.996 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J 791 /- /- /429 /100 /215 F 797 /- /- /451 /183 /- Wind reactions based on MWFRS J Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 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. B - C 245 -631 C - D 277 -466

Lumber

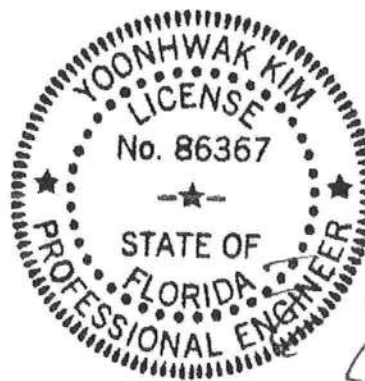
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/22/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	920 -635	I - H	914 -638

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
J - B	400 -1048	D - G	716 -844
B - H	264 -505	G - F	490 -797
H - D	710 -366		

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbacompoments.com; ICC: iccsafe.org; AWC: awc.org

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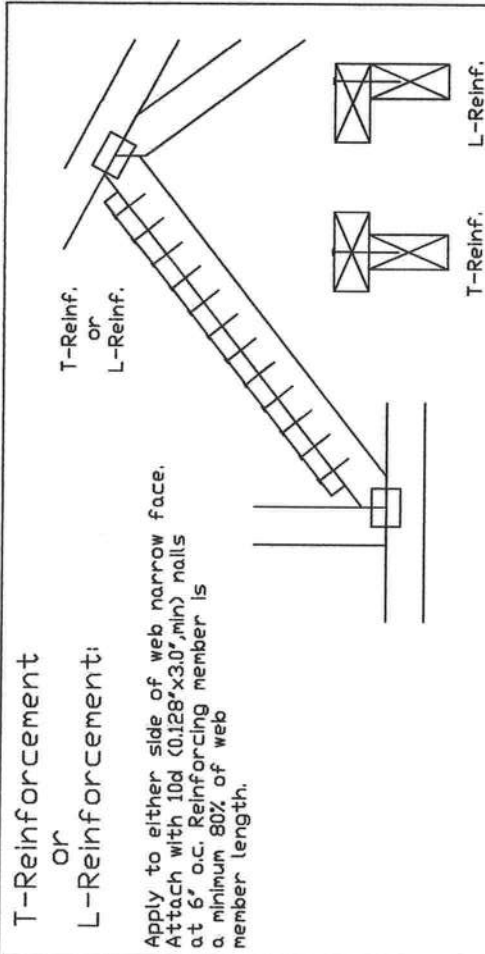
Member Substitution

Notes:

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

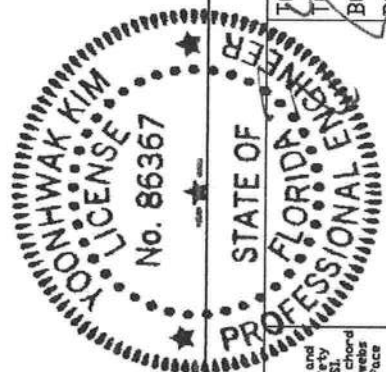
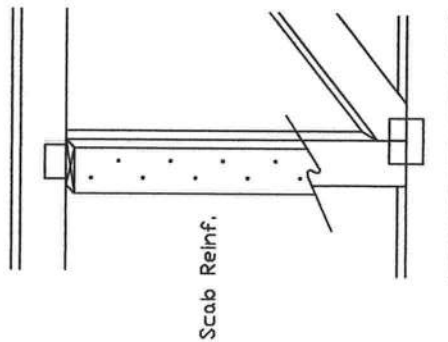
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf. Scab Reinf.
2x3 or 2x4	1 row	1-2x4
2x3 or 2x4	2 rows	2-2x4
2x6	1 row	1-2x6
2x6	2 rows	2-2x6
2x8	1 row	1-2x8
2x8	2 rows	2-2x8

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



Scab Reinforcement:

Apply scab(s) to wide face of web.
No more than (1) scab per face.
Attach with 10d (0.128"x30",min) nails
at 6" o.c. Reinforcing member is a
minimum 80% of web member length.



IMPORTANT! READ AND FOLLOW ALL NOTES ON THIS DRAWING
UNLESS NOTED OTHERWISE, TOP CHORD SHALL HAVE PROPERTIES SHOWN FOR PERMANENT LATERAL RESTRAINT OF WEBS
 Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSP Fabricating Component Safety Information, by TPI and SBCOA for safety and bracing information. Trusses shall have bracing installed per BCSP sections 35, 37 or 310, as applicable. Apply plates to each face of the chord. Refer to drawings 150A-2 for standard plates and 150B-2 for optional plates.

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

A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TP1 1 Sec.2.

ALPINE: www.alpinetw.com TPI: www.tpinst.org SBCA: www.sbcacomponents.com ICD: www.icd.com



514 Earth City Expressway
Suite 242
Earth City, MO 63045

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

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COA #0 278
01/12/2022



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



UPDATE 2/17/22



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 21-6101 REPAIR
Job Description: Lot 20 Country Lakes - Barnett	
Address:	

Job Engineering Criteria:		
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.01.01A through 21.02.00	
	JRef #: 1Xc42150006	
Wind Standard: ASCE 7-16	Wind Speed (mph): 130	Design Loading (psf): 40.00
Building Type: Closed		

This package contains general notes pages, 12 truss drawing(s) and 2 detail(s).

Item	Drawing Number	Truss
1	012.22.1529.31933	E09
3	012.22.1613.04150	E10
5	012.22.1529.35200	E11 rep
7	012.22.1529.40827	E13
9	012.22.1535.47723	E15
11	012.22.1613.12347	E16 rep
13	BRCLBSUB0119	

Item	Drawing Number	Truss
2	012.22.1529.33470	E10 rep
4	012.22.1612.57427	E11
6	012.22.1529.39297	E12
8	012.22.1529.42793	E14
10	012.22.1529.28893	E16
12	012.22.1643.36477	E09 rep
14	160TL	

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

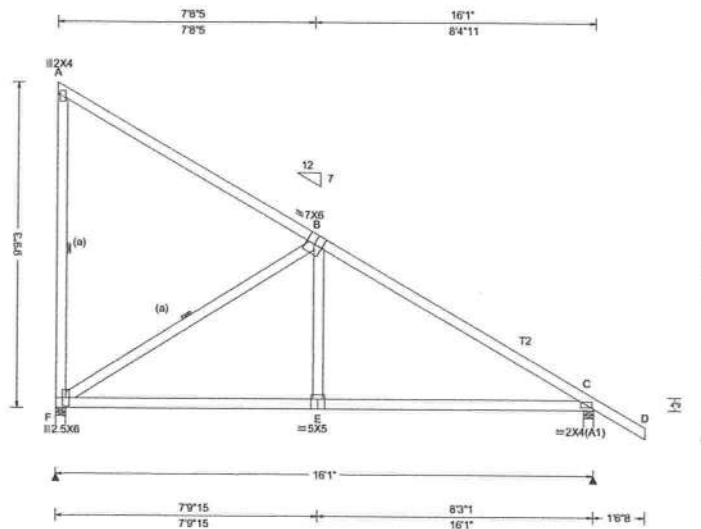
Fire Retardant Treated Lumber:

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

References:

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

SEQN: 29661 FROM:	MONO Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E09	Cust: R 215 JRef: 1Xc42150006 T39 DrwNo: 012.22.1529.31933 GA / WHK 01/11/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.014 E 999 240 VERT(CL): 0.029 E 999 180 HORZ(LL): 0.008 A - - HORZ(TL): 0.017 A - - Creep Factor: 2.0 Max TC CSI: 0.839 Max BC CSI: 0.810 Max Web CSI: 0.334 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 657 /- /- /483 /105 /265 C 785 /- /- /479 /- /- Wind reactions based on MWFRS F Brg Wid = 3.5 Min Req = 1.5 C Brg Wid = 3.5 Min Req = 1.5 Bearings F & C are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 0 -858

Lumber

Top chord: 2x4 SP M-31; T2 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.
Left end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



COA #0278
01/12/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
F - E	643 0	E - C	645 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - B	293 -761	B - E	379 0

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

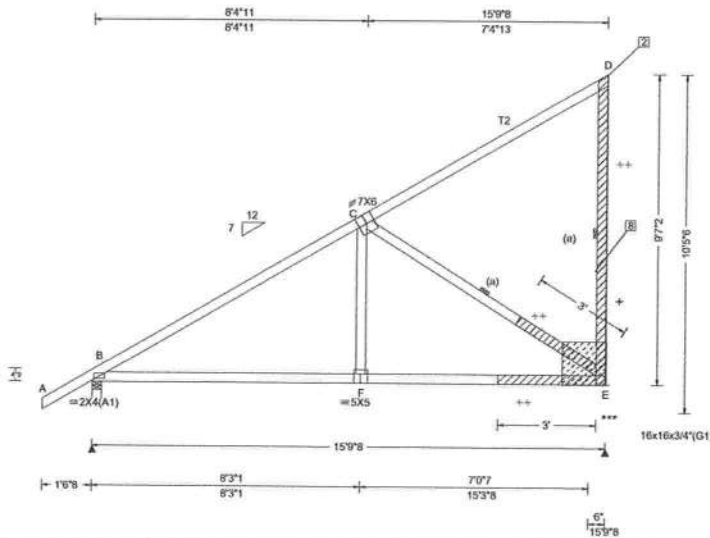
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 19734 FROM:	EJAC	Ply: 1 Qty: 9	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E10 rep	Cust: R 215 JRef: 1Xc42150006 T88 DrwNo: 012.22.1529.33470 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.013 F 999 240 VERT(CL): 0.026 F 999 180 HORZ(LL): 0.009 B - - HORZ(TL): 0.017 B - - Creep Factor: 2.0 Max TC CSI: 0.815 Max BC CSI: 0.780 Max Web CSI: 0.304 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 773 /- /- /503 /- /254 E 644 /- /- /472 /103 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) E 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. B - C 0 -831

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

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

Truss repaired to stub back the right side by 3.5" and modify the right end bearing *** as shown.

Refer to drawing 012.22.1613.04150 for plates and other data not given here.

Repair(s) must comply with Alpine designs and specifications.

Note: Prior to and during the repair operation, this truss and any supported spans must be temporarily braced and shored. The design and positioning of this bracing and shoring to be designed by others.

+ USE A SHARP METAL CUTTING SAW BLADE TO CAREFULLY REMOVE MATERIAL FROM THE TRUSS AS SHOWN. REMAINING PORTIONS OF TRUSS AND ALPINE PLATES MUST BE FREE FROM DAMAGE.

Repair specified to match what was previously performed in the field

***THIS BEARING CONDITION, FOUNDATION AND ANY SUPPORTS AND CONNECTIONS MUST BE APPROVED AND PROVIDED BY THE BUILDING DESIGNER. 3-Ply Hanger by others. ***

++(2) 2X4XCUT-TO-FIT) SP #2 (OR BETTER) SCAB. ATTACH ONE SCAB TO EACH FACE OF TRUSS AS SHOWN WITH 1 ROW OF 0.131"X3.0" NAILS AT 3.0"OC THROUGHOUT ALL MEMBERS, WITHOUT SPLITTING LUMBER.
MINIMUM NUMBER OF NAILS PER SCAB ARE SHOWN WITH NUMBER IN SQUARES.

(G)1/3"X(CUT TO FIT AS SHOWN) APA RATED 48/24 SHEATHING (PLYWOOD OR OSB) GUSSETS. ATTACH ONE GUSSET TO EACH FACE OF TRUSS (on top of the (++) Scabs) WITH 2 row(s) of (0.135"X3.5") NAILS @ 4" O.C. STAGGERED THROUGHOUT ALL WEBS AND CHORDS, WITHOUT SPLITTING LUMBER.
Notch Plywood for Hanger.



COA #0278
01/12/2022

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	622 -240	F - E	619 -241
Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.		
C - E	288 -741		

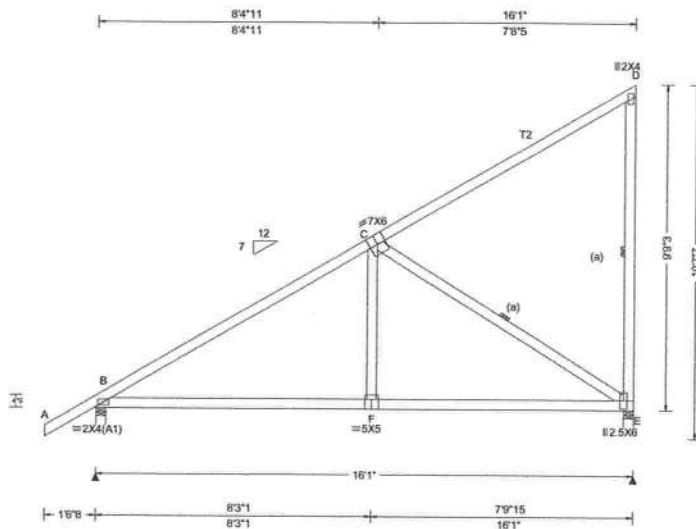
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 29668 FROM:	EJAC Qty: 9	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E10	Cust: R 215 JRef: 1Xc42150006 T97 DrwNo: 012.22.1613.04150 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpl: 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): 0.014 F 999 240 VERT(CL): 0.029 F 999 180 HORZ(LL): 0.008 B - - HORZ(TL): 0.017 B - - Creep Factor: 2.0 Max TC CSI: 0.839 Max BC CSI: 0.810 Max Web CSI: 0.334 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 785 /- /- /511 /- /258 E 657 /- /- /481 /105 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 3.5 Min Req = 1.5 Bearings B & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 0 -858

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
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 - F	645 -242	F - E	643 -243

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - C	379 0	C - E	288 -761



COA #0278

01/12/2022

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

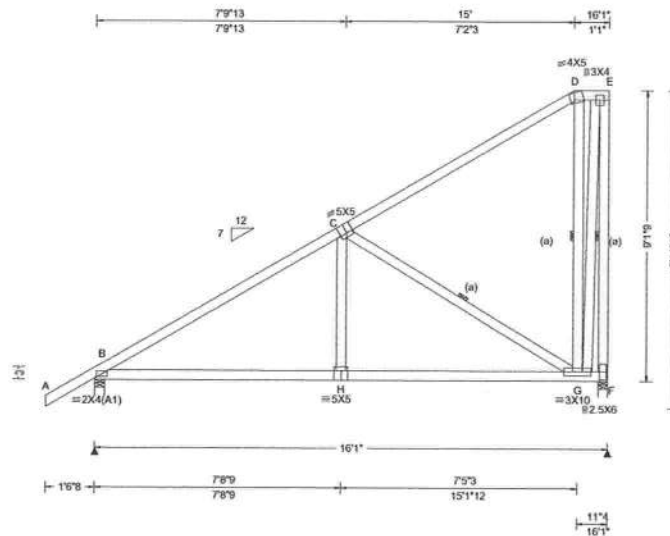
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 29672 FROM:	EJAC Qty: 1	Ply: 1 Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E11	Cust: R 215 JRef: 1Xc42150006 T96 DrwNo: 012.22.1612.57427 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 H 999 240 VERT(CL): 0.040 H 999 180 HORZ(LL): 0.008 C - - HORZ(TL): 0.016 C - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.542 Max Web CSI: 0.435 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 785 /- /- /515 /- /242 F 657 /- /- /460 /107 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 17 -873

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 - H	661 -252	H - G	659 -253

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	258 -672	E - F	231 -680
G - E	796 -288		



COA #0278

01/12/2022

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

Bracing

(S1) (1) 2x4x13-0-15 x SP #2 Top chord scab centered 9-5-2 from left end. Attach to front face of chord with (2) rows of 0.128"x3", min. nails @ 6" oc, staggered 3"

++(2) 2X4XCUT-TO-FIT) SP #2 (OR BETTER) SCAB.
ATTACH ONE SCAB TO EACH FACE OF TRUSS AS
SHOWN WITH 1 ROW OF 0.131"x3.0" NAILS
AT 3.0"OC THROUGHOUT ALL MEMBERS, WITHOUT
SPLITTING LUMBER.

(G1)3/4"X(CUT TO FIT AS SHOWN) APA RATED 48/24 SHEATHING (PLYWOOD OR OSB) GUSSETS. ATTACH ONE GUSSET TO EACH FACE OF TRUSS WITH 2 row(s) of (0.135"X3.5") NAILS @ 4" O.C. STAGGERED THROUGHOUT ALL WEBS AND CHORDS, WITHOUT SPLITTING LUMBER.

Truss repaired to stub back the right side by 3.5" and modify the right end bearing *** as shown.

Repair(s) must comply with Alpine designs and specifications.

WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

COA #0278

01/12/2022

Maximum Bot Chord Forces Per Ply (lbs)					
Chords		Tens.		Comp.	
Chords		Tens.		Comp.	
B - H	671	-262	H - G	667	-263

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
H - C	390	0	C - G	312	-791

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ALPINE
AN ITW COMPANY

6750 Forum Drive
Suite 305
Orlando FL 32821

SEQN: 19730	EJAC	Ply: 1	Job Number: 21-6101 REPAIR	Cust: R 215 JRef: 1Xc42150006 T89
FROM:		Qty: 1	Lot 20 Country Lakes - Barnett	DrwNo: 012.22.1529.35200
Page 2 of 2			Truss Label: E11 rep	GA / WHK 01/12/2022

THIS BEARING CONDITION, FOUNDATION AND ANY SUPPORTS AND CONNECTIONS MUST BE APPROVED AND PROVIDED BY THE BUILDING DESIGNER. 3-PLY HANGER by OTHERS.



COA #0278

01/12/2022

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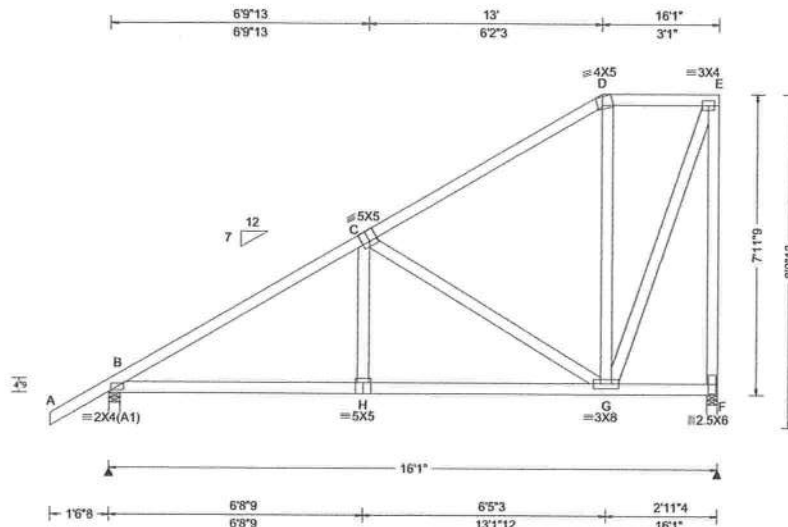
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 29676 FROM:	EJAC Qty: 1	Ply: 1 Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E12	Cust: R 215 JRef: 1Xc42150006 T91 DrwNo: 012.22.1529.39297 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 H 999 240 VERT(CL): 0.038 H 999 180 HORZ(LL): 0.007 G - - HORZ(TL): 0.013 G - - Creep Factor: 2.0 Max TC CSI: 0.459 Max BC CSI: 0.417 Max Web CSI: 0.733 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 785 /- /- /519 /74 /293 F 657 /- /- /425 /177 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 92 -909

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	703 -283	H - G	701 -284

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	212 -560	E - F	357 -642
G - E	627 -283		



COA #0278

01/12/2022

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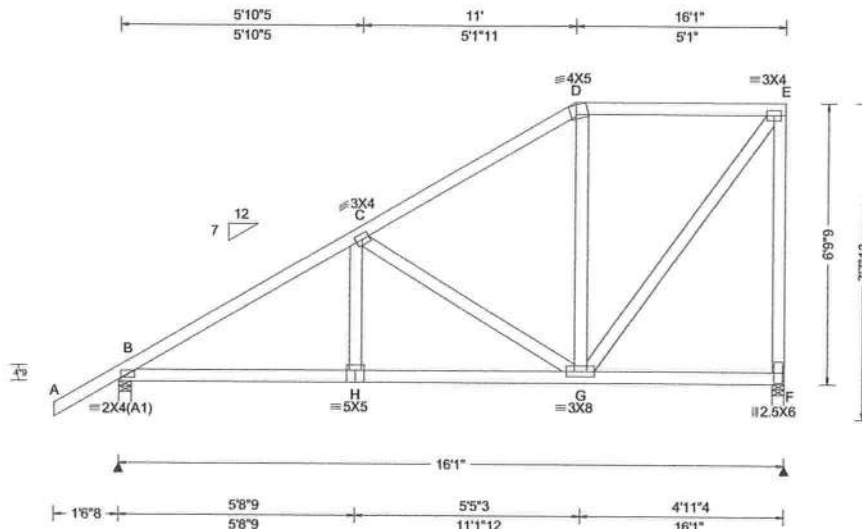
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 29680 FROM:	EJAC Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E13	Cust: R215 JRef: 1Xc42150006 T93 DrwNo: 012.22.1529.40827 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 H 999 240 VERT(CL): 0.038 H 999 180 HORZ(LL): 0.006 G - - HORZ(TL): 0.013 G - - Creep Factor: 2.0 Max TC CSI: 0.363 Max BC CSI: 0.328 Max Web CSI: 0.509 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 785 /- /- /518 /93 /252 F 657 /- /- /396 /161 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 -941 C - D 171 -514

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	739 -326	H - G	737 -327

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	153 -434	E - F	428 -618
G - E	609 -319		



COA #0278
01/12/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

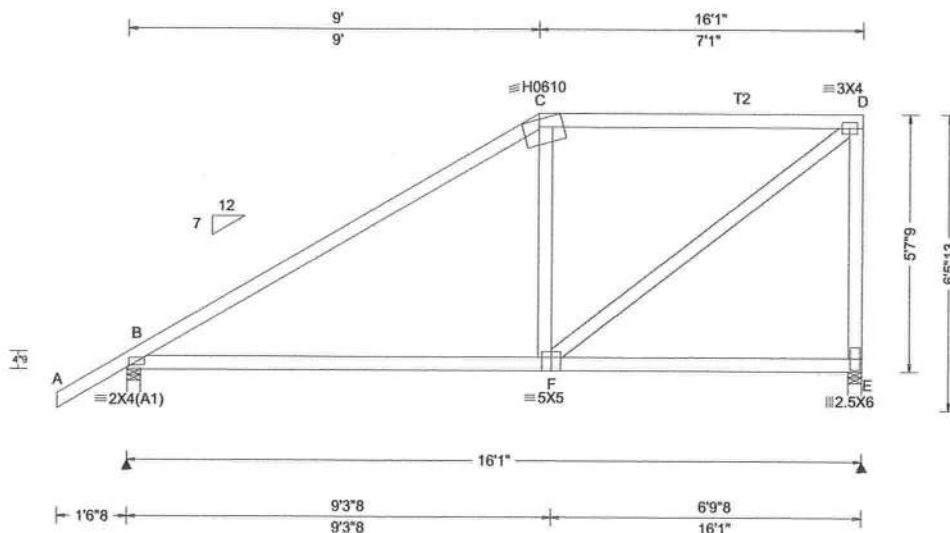
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 29684 FROM:	EJAC	Ply: 1 Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E14	Cust: R 215 JRef: 1Xc42150006 T90 DrwNo: 012.22.1529.42793 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.018 B 999 240 VERT(CL): 0.033 B 999 180 HORZ(LL): 0.015 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.877 Max BC CSI: 0.734 Max Web CSI: 0.564 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 785 /- /- /512 /110 /210 E 657 /- /- /371 /148 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 3.5 Min Req = 1.5 Bearings B & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 288 -803 C - D 317 -572

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

B - F 585 -335

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

F - D 728 -403 D - E 485 -615



COA #0228

01/12/2022

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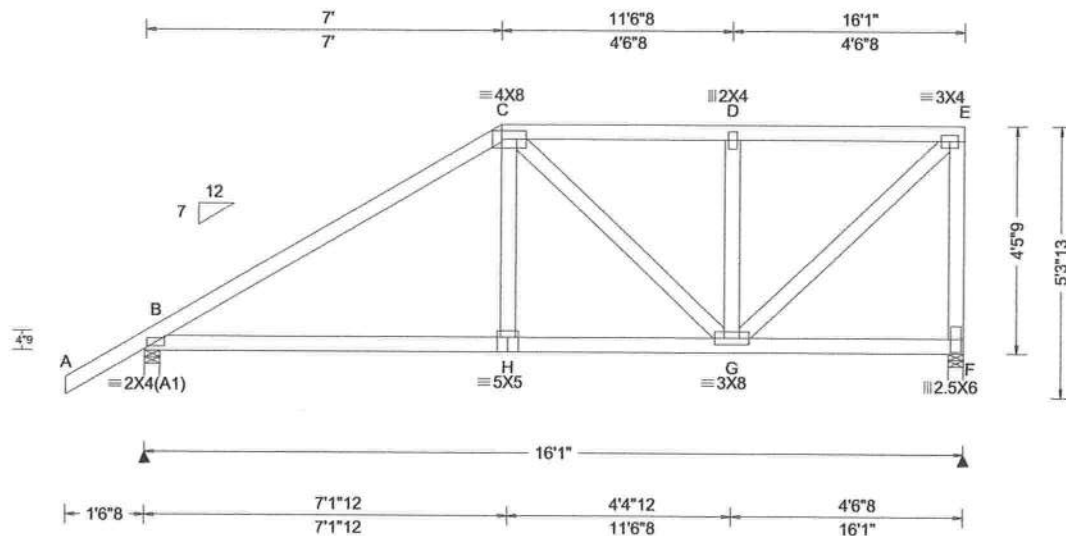
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 29688 FROM:	EJAC Qty: 1	Ply: 1 Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E15	Cust: R 215 JRef: 1Xc42150006 T92 DrwNo: 012.22.1535.47723 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.014 H 999 240 VERT(CL): 0.029 H 999 180 HORZ(LL): 0.006 B - - HORZ(TL): 0.012 B - - Creep Factor: 2.0 Max TC CSI: 0.524 Max BC CSI: 0.445 Max Web CSI: 0.371 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 785 /- /- /500 /123 /169 F 657 /- /- /351 /137 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 412 -878 D - E 403 -541 C - D 403 -542

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	668 -420	H - G	672 -419

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - G	413 -295	E - F	514 -616
G - E	735 -547		



COA #0278
01/12/2022

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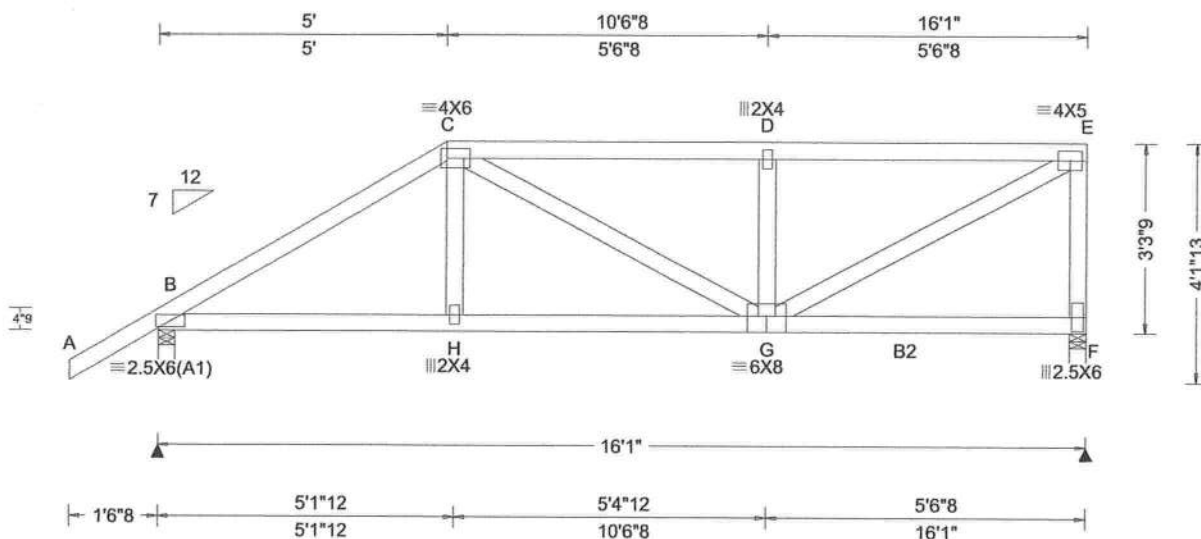
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 414633 FROM:	EJAC	Ply: 1 Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E16	Cust: R215 JRef: 1Xc42150006 T23 DrwNo: 012.22.1529.28893 GA / WHK 01/11/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.044 D 999 240 VERT(CL): 0.088 D 999 180 HORZ(LL): 0.012 C - - HORZ(TL): 0.025 C - - Creep Factor: 2.0 Max TC CSI: 0.424 Max BC CSI: 0.710 Max Web CSI: 0.658 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1242 /- /- /- /266 /- F 1126 /- /- /- /281 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 394 - 1824 D - E 372 - 1537 C - D 372 - 1537

Lumber

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

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.54 to 63 plf at 5.00
TC: From 32 plf at 5.00 to 32 plf at 16.08
BC: From 5 plf at -1.54 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 5.06
BC: From 10 plf at 5.06 to 10 plf at 16.08
BC: 476 lb Conc. Load at 5.06
BC: 182 lb Conc. Load at 7.06, 9.06, 11.06, 13.06
15.06

Wind

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

Additional Notes

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



COA #0278

01/12/2022

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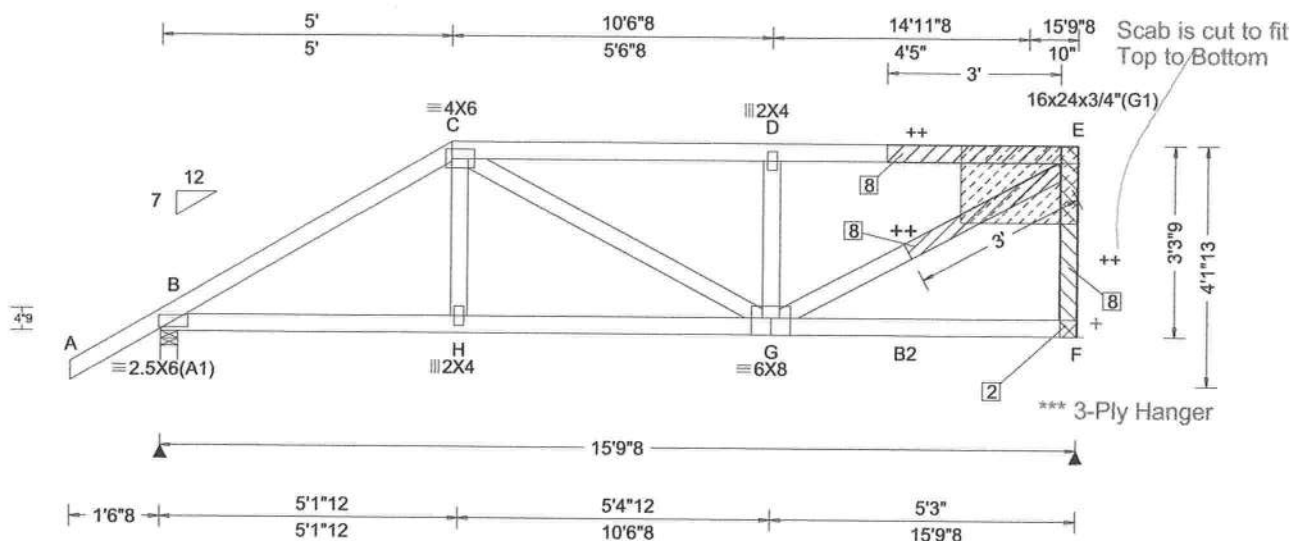
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 19725 FROM: Page 1 of 2	EJAC Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E16 rep	Cust: R 215 JRef: 1Xc42150006 T95 DrwNo: 012.22.1613.12347 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.041 D 999 240 VERT(CL): 0.080 D 999 180 HORZ(LL): 0.012 C - - HORZ(TL): 0.023 C - - Creep Factor: 2.0 Max TC CSI: 0.420 Max BC CSI: 0.653 Max Web CSI: 0.633 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1222 - / - / 478 / 168 / 128 F 1138 - / - / 331 / 127 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F 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 543 - 1790 D - E 640 - 1460 C - D 641 - 1460 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - H 1470 - 514 H - G 1503 - 511 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - H 676 - 65 G - E 1663 - 730 D - G 495 - 186 E - F 531 - 898

Special Loads

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.54 to 63 plf at 5.00
TC: From 32 plf at 5.00 to 32 plf at 15.79
BC: From 5 plf at -1.54 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 5.06
BC: From 10 plf at 5.06 to 10 plf at 15.79
BC: 476 lb Conc. Load at 5.06
BC: 182 lb Conc. Load at 7.06, 9.06, 11.06, 13.06
15.06

Hangers / Ties

3-PLY Hanger support required, by others. ***

+ USE A SHARP METAL CUTTING SAW BLADE TO CAREFULLY REMOVE MATERIAL FROM THE TRUSS AS SHOWN. REMAINING PORTIONS OF TRUSS AND ALPINE PLATES MUST BE FREE FROM DAMAGE.

Truss repaired to stub back the right side by 3.5" and modify the right end bearing *** as shown.

Refer to drawing 012.22.1529.28893 for plates and other data not given here.

Repair(s) must comply with Alpine designs and specifications.

Note: Prior to and during the repair operation, this truss and any supported spans must be temporarily braced and shored. The design and positioning of this bracing and shoring to be designed by others.

Repair specified to match what was previously performed in the field



COA #0238
01/12/2022

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

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

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

SEQN: 19725	EJAC	Ply: 1	Job Number: 21-6101 REPAIR	Cust: R 215 JRef: 1Xc42150006 T95
FROM:		Qty: 1	Lot 20 Country Lakes - Barnett	DrwNo: 012.22.1613.12347
Page 2 of 2			Truss Label: E16 rep	GA / WHK 01/12/2022

++(2) 2X4XCUT-TO-FIT) SP #2 (OR BETTER) SCAB.
ATTACH ONE SCAB TO EACH FACE OF TRUSS AS
SHOWN WITH 1 ROW OF 0.131"X3.0" NAILS
AT 3.0"OC THROUGHOUT ALL MEMBERS, WITHOUT
SPLITTING LUMBER.
MINIMUM NUMBER OF NAILS PER SCAB ARE SHOWN
WITH NUMBER IN SQUARES.

(G1)3/4"X(CUT TO FIT AS SHOWN) APA RATED 48/24
SHEATHING (PLYWOOD OR OSB) GUSSETS.
ATTACH ONE GUSSET TO EACH FACE OF TRUSS
(on top of the (++) Scabs) WITH 2 row(s) of
(0.135"X3.5") NAILS @ 4" O.C. STAGGERED
THROUGHOUT ALL WEBS AND
CHORDS, WITHOUT SPLITTING LUMBER.

THIS REPAIR IS VALID FOR ALL TRUSSES LISTED
BELOW FOR WHICH A SIMILAR CONDITION EXISTS:

DRAWING #: TRUSS LABEL:

012.22.1529.29993 "E16"
012.22.1535.47723 "E15"
012.22.1529.42793 "E14"
012.22.1529.40827 "E13"
012.22.1529.39297 "E12"



COA #0278

01/12/2022

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

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

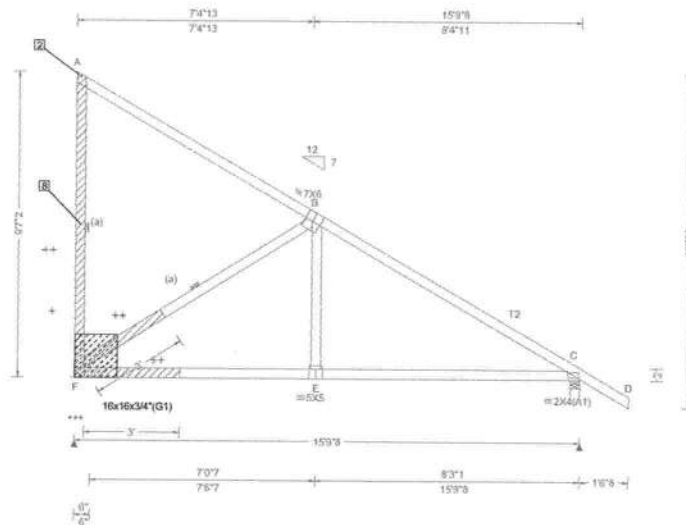
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.

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

SEQN: 19737 FROM:	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: 21-6101 REPAIR Lot 20 Country Lakes - Barnett Truss Label: E09 rep	Cust: R 215 JRef: 1Xc42150006 T98 DrwNo: 012.22.1643.36477 GA / WHK 01/12/2022
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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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.013 E 999 240 VERT(CL): 0.026 E 999 180 HORZ(LL): 0.008 C - - HORZ(TL): 0.016 C - - Creep Factor: 2.0 Max TC CSI: 0.815 Max BC CSI: 0.780 Max Web CSI: 0.304 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 644 /- /- /474 /103 /260 C 773 /- /- /472 /- /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - C Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing C is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 0 -831

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

THIS BEARING CONDITION, FOUNDATION AND ANY SUPPORTS AND CONNECTIONS MUST BE APPROVED AND PROVIDED BY THE BUILDING DESIGNER. 3-Ply Hanger by others.

Truss repaired to stub back the left side by 3.5" and modify the left end bearing *** as shown.

Refer to drawing 012.22.1529.31933 for plates and other data not given here.

Repair(s) must comply with Alpine designs and specifications.

Note: Prior to and during the repair operation, this truss and any supported spans must be temporarily braced and shored. The design and positioning of this bracing and shoring to be designed by others.

Repair specified to match what was previously performed in the field

+ USE A SHARP METAL CUTTING SAW BLADE TO CAREFULLY REMOVE MATERIAL FROM THE TRUSS AS SHOWN. REMAINING PORTIONS OF TRUSS AND ALPINE PLATES MUST BE FREE FROM DAMAGE.

++(2) 2X4XCUT-TO-FIT SP #2 (OR BETTER) SCAB. ATTACH ONE SCAB TO EACH FACE OF TRUSS AS SHOWN WITH 1 ROW OF 0.131"X3.0" NAILS AT 3.0"OC THROUGHOUT ALL MEMBERS, WITHOUT SPLITTING LUMBER. MINIMUM NUMBER OF NAILS PER SCAB ARE SHOWN WITH NUMBER IN SQUARES.

(G1)3/4"X(CUT TO FIT AS SHOWN) APA RATED 48/24 SHEATHING (PLYWOOD OR OSB) GUSSETS. ATTACH ONE GUSSET TO EACH FACE OF TRUSS (on top of the (++) Scabs) WITH 2 row(s) of (0.135"X3.5") NAILS @ 4" O.C. STAGGERED THROUGHOUT ALL WEBS AND CHORDS, WITHOUT SPLITTING LUMBER. Notch Plywood for Hanger.



COA #01278

01/12/2022

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

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

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

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

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



6750 Forum Drive
Suite 305
Orlando FL, 32821

Member Substitution

Notes:

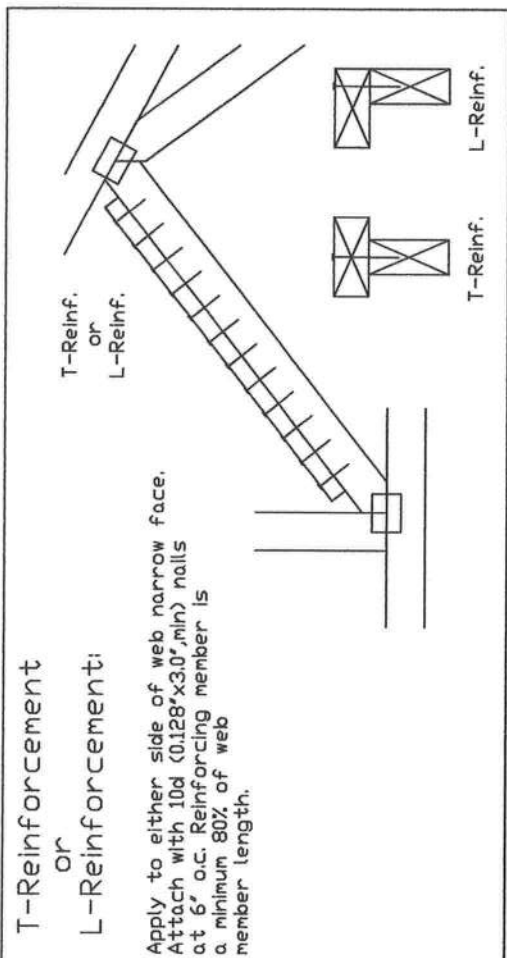
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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	1-2x4
2x3 or 2x4	2 rows	2-2x4
2x6	1 row	1-2x6
2x6	2 rows	2-2x6
2x8	1 row	1-2x8
2x8	2 rows	2-2x8

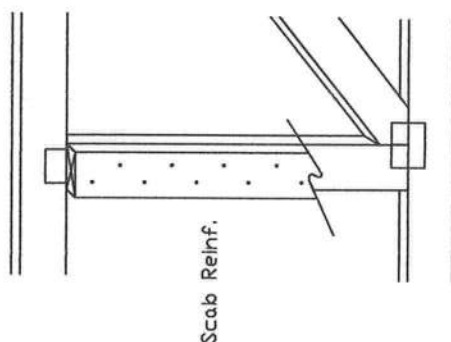
I-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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



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.



==IMPORTANT== READ AND FILL IN ALL NOTES ON THIS DRAWING

==IMPORTANT== FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of ECSS Guideline Component Safety Information, by TPI and SDCB for all truss practices prior to performing these functions. Installers shall provide temporary bracing per ECSS Notes noted otherwise; top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per ECSS section 35.7 or 36.0 as applicable. Lateral restraint of webs shall have bracing installed per ECSS sections 35.7 or 36.0 as applicable. Trusses are to be erected with the truss and position as shown and on the job as indicated, unless noted otherwise, to ensure proper fit and function.

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

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 SC2.

For more information see this Job's general notes page and these web sites:
 ALPINE www.alpinetx.com TPI www.tpinet.org SBCA www.sbca.com/components.com ICC www.iccsafe.org

REF CLR Subst.,

DATE 01/02/19

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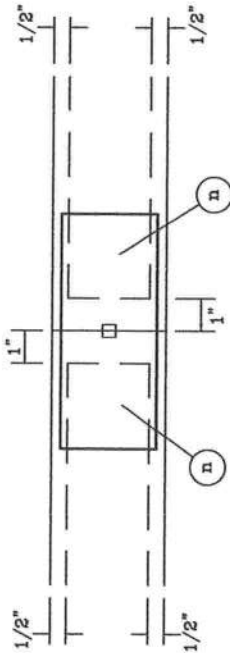
SPACING

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 10861
01/12/2022
COA #0278

COA #0378 01/12/2022

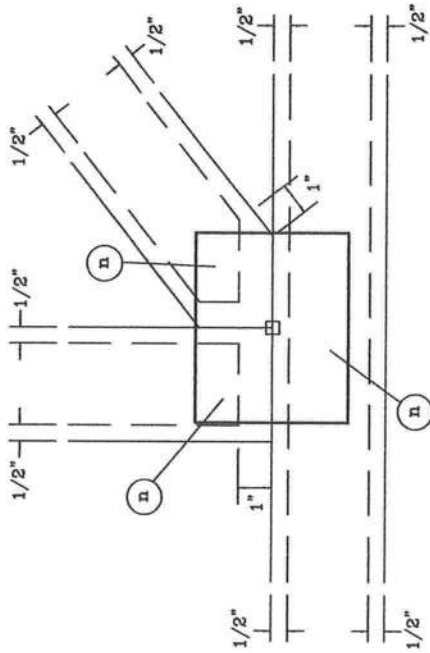
TRULOX INFORMATION DETAIL

TYPICAL OFF PANEL SPLICE

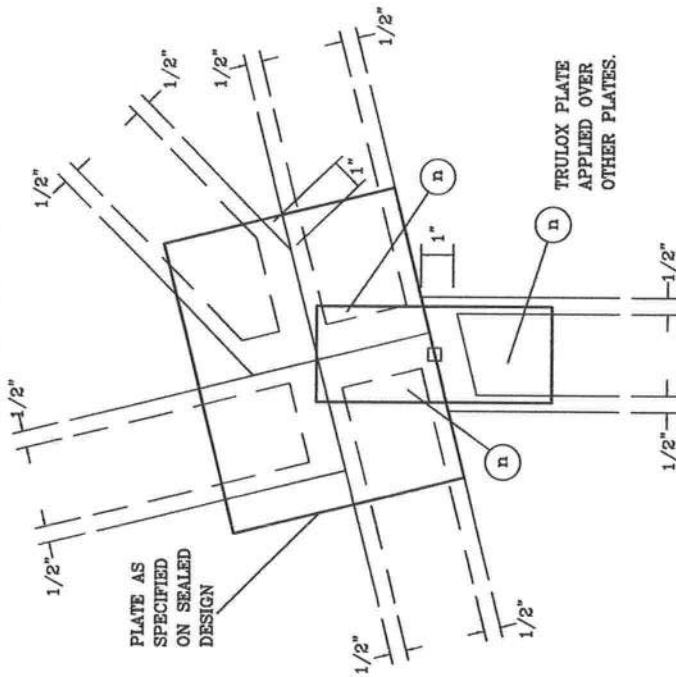


DO NOT APPLY NAILS WITHIN 1/2" OF LUMBER EDGES OR 1" OF LUMBER ENDS ON EACH FACE, AS SHOWN BY DASHED LINES.
NAILS MUST NOT SPLIT LUMBER.

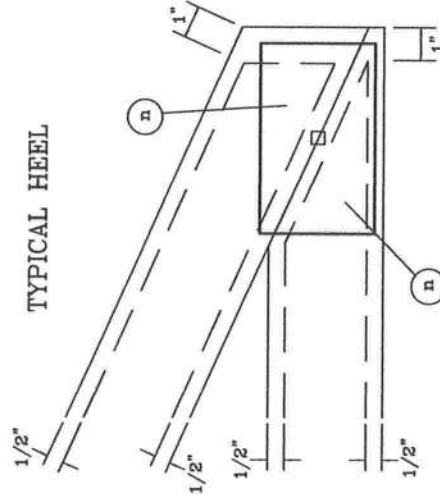
TYPICAL PANEL POINT WITHOUT SPLICE



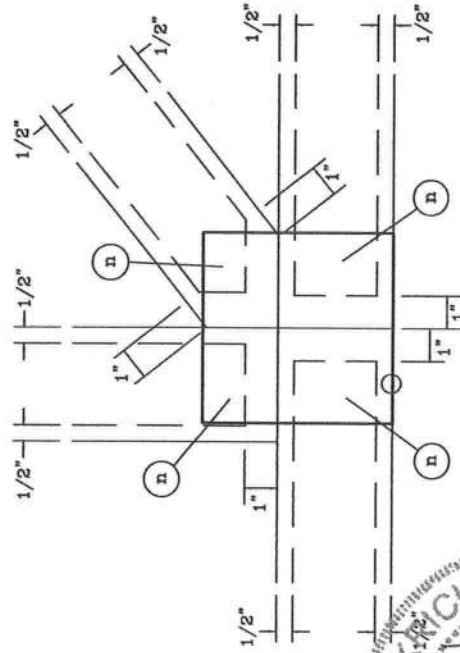
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



NOTES:

- (n) IS THE REQUIRED NUMBER OF 0.120" X 1.375" NAILS, OR EQUAL, PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL.
- LOCATES PLATE CORNER OR FLUSH EDGE.
- LOCATES PLATE CENTER.

TRULOX PLATING

160
TL

PAGE 1 OF 1

DATE 10/01/14



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