



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: 21-6017
Job Description: Fierce Const-Brinkley	
Address: 2054 sw Salem rd , Lake City, FL	

Job Engineering Criteria:		
Design Code: FBC 7th Ed. 202	0 Res.	IntelliVIEW Version: 21.01.01A
		JRef #: 1Xc72150001
Wind Standard: ASCE716	Wind Speed (mph): 0	Design Loading (psf): 55.00
Building Type:		

This package contains general notes pages, 7 truss drawing(s) and 1 detail(s).

Item	Drawing Number	Truss
1	014.22.1354.33577	F01
3	014.22.1354.35690	F03
5	014.22.1354.41407	F05
7	014.22.1354.45577	F07

Item	Drawing Number	Truss
2	014.22.1354.38167	F02
4	014.22.1354.44103	F04
6	014.22.1354.51610	F06
8	STRBRIBR1014	

# **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.

Job Number: 21-6017 Cust: R 215 JRef: 1Xc72150001 SEQN: 634515 SY42 Ply: 1 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.33577 Qty: 12 Truss Label: F01 SSB / WHK 01/14/2022 11'10"8 13'10"8 23'1"8 11'10"8 2 9'3" 2'6" -1'3"12 1'4"8 2'6"12 -(TYP) ≡W=3X4 ⊪2.5X6 GH ≡4X4 ≡W=3X4 DE =6X6 =1.5X3 =6X6 =5X6 C =4X5**||12.5X6** ≡5X5  $\equiv$ 5X6  $\equiv$ 6X6 **∥7X6** AD 3"8 14 1 ⊒128 W V I ∥2.5X6 =5X5 ||2.5X6 ≡6X6 =6X8 ||3X4 = AA = 6X6 =5X5 ||2.5X6 ≡5X5 **Ⅲ3**X4 ≡W=H0308 ≡W=H0308 23'1"8 -Snow Criteria (Pg,Pf in PSF) ▲ Maximum Reactions (lbs) Loading Criteria (psf) Wind Criteria Defl/CSI Criteria Non-Gravity Wind Std: NA Gravity TCLL: 40.00 Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Speed: NA mph / R-/Rw /U / RL Loc TCDL: 10.00 Pf: NA Ce: NA VERT(LL): 0.494 G 551 480 Enclosure: NA BCLL: VERT(CL): 0.679 G 400 360 0.00 Lu: NA Cs: NA AC 1256 /-/-/-Category: NA BCDI · 5.00 Snow Duration: NA HORZ(LL): 0.054 B N 1275 /-/-/-/-EXP: NA Kzt: NA AC Brg Wid = 7.5 Min Req = 1.5 HORZ(TL): 0.074 B Des Ld: 55.00 Mean Height: NA ft N Brg Wid = -**Building Code:** Creep Factor: 2.0 NCBCLL: 10.00 TCDL: NA psf Bearing AC is a rigid surface. FBC 7th Ed. 2020 Res. Max TC CSI: 0.568 Soffit: 0.00 BCDL: NA psf Members not listed have forces less than 375# TPI Std: 2014 Max BC CSI: Load Duration: 1.00 0.756 MWFRS Parallel Dist: NA Maximum Top Chord Forces Per Ply (lbs) Spacing: 24.0 " Rep Fac: Yes Max Web CSI: 0.840 C&C Dist a: NA ft Chords Tens.Comp. Chords Tens. Comp. FT/RT:12(0)/10(0) Loc. from endwall: NA Plate Type(s): I: NA GCpi: NA

### Lumber

Top chord: 4x2 SP #2; Bot chord: 4x2 SP M-31; B2 4x2 SP #2; Webs: 4x2 SP #3;

## **Additional Notes**

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations

Truss must be installed as shown with top chord up.

Wind Duration: NA

The overall height of this truss excluding overhang is

A - B	0 - 1360	G-H	0	- 6366
B - C	0 - 3617	H - I	0	- 6366
C - D	0 - 5258	l - J	0	-6349
D-E	0 -6180	J - K	0	- 5197
E-F	0 -6180	K-L	0	- 3567
F-G	0 -6364	L - M	0	- 1299

# Maximum Bot Chord Forces Per Ply (lbs)

Choras	rens.co	mp.	Choras	rens. Co	omp.
AB-AA	2654	0	U - T	6486	0
AA- Z	4584	0	T - S	6366	0
Z - Y	4584	0	S-R	5847	0
Y - X	5869	0	R-Q	4551	0
X - W	6486	0	Q - P	4551	0
W - V	6486	0	P-0	2589	0
V - U	6486	0			



VIEW Ver: 21.01.01A.0521.20

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
AD-AC	0 - 1245	F-T	504	- 585
A -AD	0 - 1229	I-S	0	- 395
A -AB	1764 0	S-J	985	0
AB- B	0 - 1712	J-R	0	- 860
B -AA	1274 0	R-K	837	0
AA- C	0 - 1253	K - P	0	- 1276
C - Y	874 0	P-L	1295	0
Y - D	0 -809	L-O	0	- 1707
D - X	445 0	O - M	1705	0
X-F	0 -417	M - N	0	- 1300

01/14/2022

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

WAVE, HS

\*\*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.



SEQN: 634508 Job Number: 21-6017 Cust: R 215 JRef: 1Xc72150001 SY42 Ply: 1 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.38167 Qty: 9 Truss Label: F02 SSB / WHK 01/14/2022 11'10"8 23'9" 13'3" 11'10"8 1'4"8 10'6" — 2'6" — 1'4"8 2'6" -- 2'6" -2'6"12 -(TYP) ≡W=3X4 ⊪2.5X6 F G =6X6 =1.5X3 4X4 ≡W=3X4 =1.5X3 M MN =6X6 =7X6 =4X4 =4X6 **∥4X5** =7X6 =6X6 ΑF 7 3"8 14" 1 ⊒128 V U ||2.5X6 ||4X5 AB AA ⊪2.5X6 ≡5X5 Y X I ∥2.5X6 =H0308 O AC ≡6X6 P ≡6X8 ||3X4 **∥3**X4 =W=H0308

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.520 F 539 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.715 F 392 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.056 B
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.077 B
NCBCLL: 10.00	Mean Height: NA ft TCDL: NA psf	Building Code:	Creep Factor: 2.0
Soffit: 0.00	BCDL: NA psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.416
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.806
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Yes	Max Web CSI: 0.868
, ,	Loc. from endwall: NA	FT/RT:12(0)/10(0)	
	I: NA GCpi: NA	Plate Type(s):	
	Wind Duration: NA	WAVE, HS	VIEW Ver: 21.01.01A.0521.20

## ▲ Maximum Reactions (lbs) Gravity

= maximum redestrone (150)							
	Gravity				vity		
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
AE 1294	l /-	/-	/-	/-	/-		
O 1294	1 /-	/-	/-	/-	/-		
AE Brg Wid = 7.5 Min Reg = 1.5							
O Brg	Wid = 7.5	Min R	eq = 1.5	5			
Bearings AE & O are a rigid surface.							
Members not listed have forces less than 375#							
Maximum Top Chord Forces Per Ply (lbs)							
Chords	Tens.Cor	np. C	hords	Tens.	Comp.		

A - B 0 - 1406 -6862 B-C 0 - 3750 0 -6492 C-D 0 - 5482 I - J 0 -6492 D-E 0 -6491 J - K 0 - 5482 F-F 0 -6858 K-L 0 - 3751 F-G 0 -6862 0 - 1406

## Lumber

Top chord: 4x2 SP #2; Bot chord: 4x2 SP #2; B2,B3 4x2 SP M-31; Webs: 4x2 SP #3;

## Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Co	mp.	Chords	Tens. Co	omp.
AD-AC	2743	0	W - V	6862	0
AC-AB	4762	0	V - U	6858	0
AB-AA	4762	0	U - T	6132	0
AA- Z	6138	0	T-S	6132	0
Z - Y	6833	0	S-R	4763	0
Y - X	6833	0	R-Q	4763	0
X - W	6833	0	Q-P	2743	0



Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens.	Comp.	
AF-AE	0 - 1283	H-U	64	- 768	
A -AF	0 - 1266	U-J	632	0	
A -AD	1823 0	J-S	0	- 860	
AD- B	0 - 1770	S-K	933	0	
B -AC	1332 0	K - Q	0	- 1313	
AC- C	0 - 1312	Q-L	1333	0	
C -AA	934 0	L-P	0	- 1770	
AA- D	0 -868	P - M	1823	0	
D - Z	494 0	M - N	0	- 1266	
Z-E	0 -462	N - O	0	- 1272	
E - W	575 -450				

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

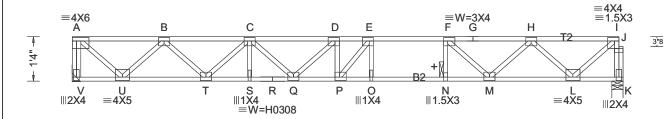
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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.



SEQN: 634523 Job Number: 21-6017 Cust: R 215 JRef: 1Xc72150001 SY42 Ply: 1 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.35690 Qty: 6 Truss Label: F03 SSB / WHK 01/14/2022





<b>_</b>	16'6" —	_

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.260 E 742 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.360 E 535 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.040 B
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.056 B
NCBCLL: 10.00	Mean Height: NA ft TCDL: NA psf	Building Code:	Creep Factor: 2.0
Soffit: 0.00	BCDL: NA psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.500
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.727
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Yes	Max Web CSI: 0.538
1,111	Loc. from endwall: NA	FT/RT:12(0)/10(0)	
	I: NA GCpi: NA	Plate Type(s):	
	Wind Duration: NA	WAVE, HS	VIEW Ver: 21.01.01A.0521.20

### ▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ / R-/ Rw /U / RL V 911 /-/-/-/-K 891 /-/-Brg Wid = -Min Req = -Brg Wid = 4.0 Bearing K is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 - 797 E-F 0 - 2736 B - C 0 - 2076 F-G 0 -2115 C-D 0 - 2771 G-H 0 -2115 D-E 0 - 2948H - I 0 - 831

## Lumber

Top chord: 4x2 SP M-31; T2 4x2 SP #2; Bot chord: 4x2 SP #2; B2 4x2 SP M-31; Webs: 4x2 SP #3;

## **Plating Notes**

All plates are 3X4 except as noted.

# **Additional Notes**

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

onp.	
0	
0	
0	
0	

# Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp. vvebs rens		rens.	Comp.
A - V	0 -902	F - M	0	- 890
A - U	1112 0	M - H	721	0
U - B	0 - 1092	H-L	0	- 1064
B - T	686 0	L-I	1130	0
T - C	0 -661	l - J	0	- 877
P-E	542 - 193	J-K	0	- 882



\*\*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.



Job Number: 21-6017 SEQN: 634519 SY42 Cust: R 215 JRef: 1Xc72150001 Ply: 1 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.44103 Qty: 9 Truss Label: F04 SSB / WHK 01/14/2022 9'0"4 16'6"8 11'2" 2'10"8 9"4 5'4"8 2'1"12 5'4"8 2'6" -- 2'6"12 -— 2'6"12 -(TYP) =3X5 D ≡W=3X4 E =1.5X3 =3X5 В С G Н 3"8 U T S ||1X4 ||1X4 R M ∥1X4 N ∥1X4 ∥2X4 **∥2X4** 111X4 =W=3X4 6'4" -10'2"8 16'6"8

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.118 M 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.176 M 677 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.014 I
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.023 I
NCBCLL: 10.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
	TCDL: NA psf BCDL: NA psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.643
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.899
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Yes	Max Web CSI: 0.327
	Loc. from endwall: NA	FT/RT:12(0)/10(0)	
	I: NA GCpi: NA	Plate Type(s):	
	Wind Duration: NA	WAVE	VIEW Ver: 21.01.01A.0521.20
	1	•	

▲ Maximum Reactions (lbs)	
Gravity	Non-Gravity

LO	C K+	/ K-	/ Kn	/ RW	/ U	/ KL
v	435	/-	/-	/-	/-	/-
Q	813	/-	/-	/-	/-	/-
J	611	/-	/-	/-	/-	/-
V	Brg \	Vid = 8	.0 Min F	Req = 1.5	5	
Q	Brg \	Vid = 8	.0 Min F	Req = 1.5	5	
J		Vid = -				
Be	arings	V & Q a	are a rigid	surface.		
			ed have fo		s than	375#

**Maximum Top Chord Forces Per Ply (lbs)** Chords Tens.Comp. Chords Tens. Comp.

0110100	. 01.10.001.11p1	0110100	. o o op.
B-C	0 -645	F-G	0 - 1213
C - D	0 - 545	G-H	0 -1140
D-E	0 - 736	H - I	0 - 491
E-F	0 - 736		

## Lumber

Top chord: 4x2 SP #2; Bot chord: 4x2 SP #2; Webs: 4x2 SP #3;

## **Plating Notes**

All plates are 3X4 except as noted.

# **Additional Notes**

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. C	omp.
U - T	642	0	P-0	424	-20
T-S	645	0	O - N	1206	0
S-R	648	0	N - M	1213	0
R-Q	424	-20	M - L	1218	0
Q-P	424	-20	L-K	975	0

# Maximum Web Forces Per Ply (lbs)

comp.
0
- 677
- 673
0
- 586



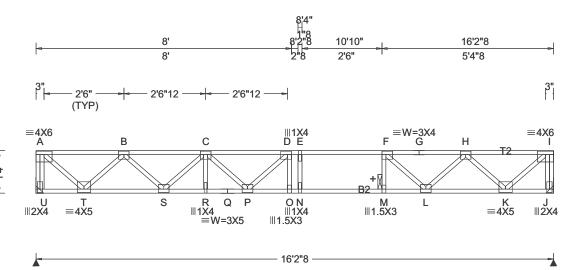
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

\*\*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.



SEQN: 634526 SY42 Job Number: 21-6017 Cust: R 215 JRef: 1Xc72150001 Ply: 1 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.41407 Qty: 2 Truss Label: F05 SSB / WHK 01/14/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.289 O 652 480	<u> </u>
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.442 D 426 360	U
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.046 B	J
Des Ld: 55.00	EXP: NA Kzt: NA Mean Height: NA ft		HORZ(TL): 0.071 B	U
NCBCLL: 10.00	TCDL: NA psf	Building Code:	Creep Factor: 2.0	J
Soffit: 0.00	BCDL: NA psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.552	N
Load Duration: 1.00	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.715	N
Spacing: 24.0 "	C&C Dist a: NA ft	Rep Fac: Yes	Max Web CSI: 0.515	=
	Loc. from endwall: NA	FT/RT:12(0)/10(0)		Α
	I: NA GCpi: NA	Plate Type(s):		В
	Wind Duration: NA	WAVE	VIEW Ver: 21.01.01A.0521.20	C
Lumber	·	·	· · · · · · · · · · · · · · · · · · ·	

	▲ N		um Rea	ctions	(lbs)				
#		(	Gravity			IN	on-Gra	vity	
80	Loc	R+	/ R-	/ Rh	1	/ Rw	/ U	/ RL	
60	υ	891	/-	/-		/-	/-	/-	
-	J	891	/-	/-		/-	/-	/-	
-	U		Wid = -						
	J	Brg	Wid = -						
	Mei	mbers	not liste	ed have	e forc	es les	s than :	375#	
	Max	ximu	m Top C	hord I	Force	s Per	Ply (lb	s)	
	Cho	ords	Tens.Co	mp.	Ch	ords	Tens.	Ćomp.	_
	Α-	В	0	- 775	E-	F	0	- 2667	
	В-	С	0 -	2020	F-	G	0	- 2034	
	C-	D		2666	G-	Н	0		
	D -	E	0 -	2667	Н-	I	0	- 772	

Top chord: 4x2 SP M-31; T2 4x2 SP #2; Bot chord: 4x2 SP #2; B2 4x2 SP M-31; Webs: 4x2 SP #3;

## **Plating Notes**

All plates are 3X4 except as noted.

# **Additional Notes**

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Co	mp.	Chords	Tens. Co	omp.
T-S	1539	0	O - N	2667	0
S-R	2489	0	N - M	2667	0
R-Q	2489	0	M - L	2656	0
Q-P	2489	0	L-K	1517	0
P - O	2676	0			

Maximum Web Forces Per Ply (lbs)

vvebs	rebs rens.comp.		vvebs	i ens.	Comp.		
A - U	0 -8	83	F-L	0	- 936		
A - T	1082	0	L-H	719	0		
T - B	0 - 10	62	H - K	0	- 1037		
B - S	670	0	K-I	1077	0		
S-C	0 -6	38	I - J	0	- 871		
$D \cap C$	100 2	Ω1					



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

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

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

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

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

6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 634529 Cust: R 215 JRef: 1Xc72150001 Ply: 1 Job Number: 21-6017 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.51610 Qty: 1 Truss Label: F06 SSB / WHK 01/14/2022 16'2"8 - 2'6" -2'6"12 -(TYP) =3X4 =3X4≡W=3X4 D E F =3X6 G **∥7X6** ≡4X6 B =3X6 C ≡4X6 H =4X8 1'4" +

16'2"8 -

Q P

Loading Criteria (psf) TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDI · 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "

Wind Criteria Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA

GCpi: NA

Wind Duration: NA

=6X8

**∥2X4** 

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

S

R ≡3X4

T ≡4X5

**Building Code:** FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS

Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.276 E 683 480 VERT(CL): 0.379 E 497 360 HORZ(LL): 0.043 K HORZ(TL): 0.059 K Creep Factor: 2.0

=3X4

Ν

**≡**W=H0308

Max TC CSI: 0.677 Max BC CSI: 0.649 Max Web CSI: 0.898

VIEW Ver: 21.01.01A.0521.20

	G	ravity	•	N	on-Gra	vity
Lo	c R+	/ R-	/ Rh	/ Rw	/ U	/ F
v	1425	/-	/-	/-	/-	/-
l i	1207	,	,	,	1	- /

▲ Maximum Reactions (lbs)

/ RL /-/-Brg Wid = -V

K ≡4X10

**∥2X4** 

Brg Wid = -

=4X6

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

rens.comp.	Cnoras	rens. Comp.
0 - 1355	E-F	0 -4558
0 - 3519	F-G	0 -4558
0 -4638	G-H	0 - 3251
0 -4902	H - I	0 -1177
	0 - 1355 0 - 3519 0 - 4638	0 - 1355 E - F 0 - 3519 F - G 0 - 4638 G - H

## Lumber

Top chord: 4x2 SP M-31; Bot chord: 4x2 SP M-31; Webs: 4x2 SP #3;

# Special Loads

---(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) 10.35 TC: From 50 plf at 0.00 to 50 plf at TC: From BC: From 100 plf at 5 plf at 10.35 to 0.00 to 100 plf at 5 plf at 16.21 10.35 10 plf at 10.35 to 10 plf at BC: From 16.21 300 lb Conc. Load at 2.15, 4.15, 6.35, 8.35 TC:

I· NA

## **Plating Notes**

All plates are 1X4 except as noted.

# Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

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.



Maximum Bot Chord Forces Per Ply (lbs)

Tens.Comp.		Chords	Tens. Co	Comp.	
2717	0	P-0	4904	0	
4333	0	O - N	4157	0	
4333	0	N - M	4157	0	
4901	0	M - L	4157	0	
4902	0	L-K	2349	0	
	2717 4333 4333 4901	2717 0 4333 0 4333 0 4901 0	2717 0 P - O 4333 0 O - N 4333 0 N - M 4901 0 M - L	2717 0 P - O 4904 4333 0 O - N 4157 4333 0 N - M 4157 4901 0 M - L 4157	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
A - V	0 - 1413	0 - G	546 0	
A - U	1886 0	G-L	0 - 1230	
U - B	0 - 1895	L-H	1255 0	
B - T	1116 0	H - K	0 - 1630	
T - C	0 - 1106	K-I	1642 0	
C-R	415 0	l - J	0 - 1259	
F - O	0 _481			

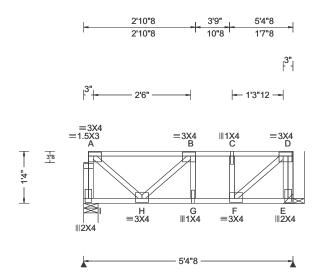
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

\*\*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.



SEQN: 634442 Cust: R 215 JRef: 1Xc72150001 Ply: 1 Job Number: 21-6017 FROM: CDM Fierce Const-Brinkley DrwNo: 014.22.1354.45577 Qty: 5 Truss Label: F07 SSB / WHK 01/14/2022



Loading Criteria (psf)         Wind Criteria         Snow Criteria (Pg,Pf in PSF)         Defl/CSI Criteria           TCLL: 40.00         Wind Std: NA         Pg: NA         Ct: NA         CAT: NA           TCDL: 10.00         Speed: NA mph         Pf: NA         Ce: NA         VERT(LL): 0.021 B 999           BCDL: 5.00         Category: NA         Lu: NA         Cs: NA         VERT(CL): 0.031 B 999           BCDL: 55.00         EXP: NA Kzt: NA         Mean Height: NA ft         HORZ(IL): 0.007 B -         HORZ(IL): 0.010 B -           NCBCLL: 10.00         BCDL: NA psf         BUIlding Code:         Creep Factor: 2.0         Creep Factor: 2.0           Max TC CSI: 0.449         Max TC CSI: 0.449											
TCDL:         10.00         Speed:         NA mph         Pf: NA         Ce: NA         VERT(LL):         0.021 B         999           BCLL:         0.00         Enclosure: NA         Lu: NA         Cs: NA         VERT(CL):         0.031 B         999           BCDL:         5.00         Category: NA         Snow Duration: NA         HORZ(LL):         0.007 B         -           NCBCLL:         10.00         Mean Height: NA ft         TCDL: NA psf         Building Code:         Creep Factor: 2.0           Soffit:         0.00         BCDL: NA psf         FBC 7th Ed. 2020 Res.         Max TC CSI:         0.449	Loading		Wind Criteria	Snow C	<b>riteria</b> (Pg	,Pf in PSF)	Defl/CSI Cr	iteria			T
Load Duration: 1.00	TCLL: TCDL: BCLL: BCDL: Des Ld: NCBCLL: Soffit: Load Dur.	ft Dist: N : NA	Wind Std: NA Speed: NA mpl Enclosure: NA Category: NA EXP: NA Kzt: N, Mean Height: N/ TCDL: NA psf BCDL: NA psf MWFRS Paralle C&C Dist a: NA I Loc. from endwa I: NA GCpi: N	Pg: NA Pf: NA Lu: NA Snow Du  Building FBC 7th TPI Std: Rep Fac FT/RT:1: Plate Ty	Ct: NA  Cs: NA  uration: NA  Code: Ed. 2020 I 2014 : Yes 2(0)/10(0)	CAT: NA Ce: NA	PP Deflectic VERT(LL): VERT(CL): HORZ(LL): HORZ(TL): Creep Facts Max TC CS Max BC CS Max Web C	on in lo 0.021 0.031 0.007 0.010 or: 2.0 l: 0.4 l: 0.2 SI: 0.1	B 999 B 999 B - B - 49 94 74	9 480 9 360 - -	

### ▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ / R-/ Rw / U / RL 279 /-/-/-/-F 300 /-/-Brg Wid = 4.5 Min Req = 1.5 Brg Wid = -Е Bearing I is a rigid surface. Members not listed have forces less than 375#

## Lumber

Top chord: 4x2 SP #2; Bot chord: 4x2 SP #2; Webs: 4x2 SP #3;

## Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations.
Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating

Bearing at location x=5'1"8 uses the following

Bearing at location x=5\*1\*8 uses the support conditions: 5\*1\*8

Bearing E (5\*1\*8, 9\*1\*2) THA422

Supporting Member: (1)4x2 SP M-31 (2) 0.162\*x3.5" nails into supporting member, (4) 0.148"x1.5" nails in flange and

(6) 0.162"x3.5" nails into supported member

Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is



\*\*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 BBCA) 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 caling. 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.



