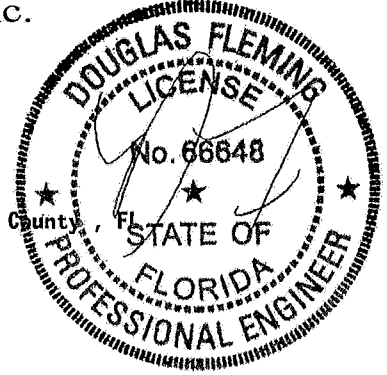


ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID 1V4Z487-Z0125164634



03/25/2014

Douglas Fleming
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Truss Fabricator **Anderson Truss Company**
Job Identification **14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County, FL**

Truss Count

36

Model Code

Florida Building Code 2010

Truss Criteria

FBC2010Res/TPI-2007(STD)

Engineering Software

Alpine Software, Versions 12.03, 13.02.

Structural Engineer of Record

The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC

Address

Minimum Design Loads

Roof - 37.0 PSF @ 1.25 Duration

Floor - N/A

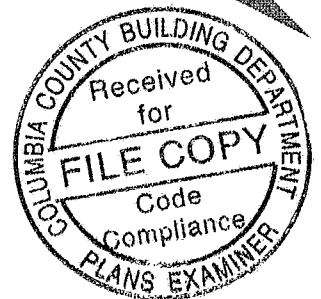
Wind - 120 MPH ASCE 7-10 -Closed

Notes

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

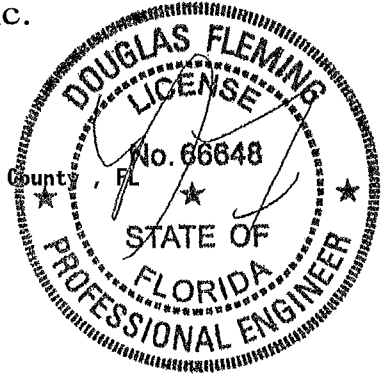
Details: BRCLBSUB-PB16010-

#	Ref	Description	Drawing#	Date
1	20881--A	13' 9" 8 Common	14084001	03/25/14
2	20882-A1	13' 9" 8 Common	14084001	03/25/14
3	20883-A2	36' 3" 8 Mono H	14084031	03/25/14
4	20884-A3	36' 3" 8 Mono H	14084002	03/25/14
5	20885-A4	36' 3" 8 Specia	14084003	03/25/14
6	20886-A5	36' 3" 8 Mono H	14084004	03/25/14
7	20887-A6	36' 3" 8 Mono H	14084005	03/25/14
8	20888-A7	36' 3" 8 Mono H	14084006	03/25/14
9	20889-A8	36' 3" 8 Mono H	14084007	03/25/14
10	20890-A9	36' 3" 8 Mono H	14084012	03/25/14
11	20891--B	11' 8" Common	14084008	03/25/14
12	20892--B1	11' 8" Common	14084002	03/25/14
13	20893--B2	11' 8" Mono	14084009	03/25/14
14	20894--B3	12' 6" 8 Mono	14084010	03/25/14
15	20895--B4	12' 6" 8 Mono	14084034	03/25/14
16	20896--B5	12' 6" 8 Mono	14084013	03/25/14
17	20897--B6	12' 6" 8 Mono	14084014	03/25/14
18	20898--B7	12' 6" 8 Mono	14084015	03/25/14
19	20899--B8	12' 6" 8 Mono	14084016	03/25/14
20	20900--B9	12' 6" 8 Mono	14084017	03/25/14
21	20901--B10	12' 6" 8 Mono	14084018	03/25/14
22	20902--CJ1	1' 0" 15 Jack	14084019	03/25/14
23	20903-CJ2A	1' 4" 15 Jack	14084020	03/25/14
24	20904--CJ3	3' 0" 15 Jack	14084021	03/25/14
25	20905-CJ3A	2' 10" 15 Jac	14084022	03/25/14
26	20906-DGA	13' 9" 8 Gable	14084023	03/25/14
27	20907--DGB	11' 8" Gable	14084024	03/25/14
28	20908-EJ5	5' 2" End Jac	14084025	03/25/14
29	20909-EJ5A	5' End Jack	14084026	03/25/14
30	20910-HJ5	7' 2" 15 Hip J	14084032	03/25/14
31	20911-HJ5A	7' 0" 2 Hip J	14084033	03/25/14
32	20912-MH5	12' 6" 8 Mono	14084011	03/25/14
33	20913-MH7	12' 6" 8 Mono	14084027	03/25/14
34	20914-MH9	12' 6" 8 Mono	14084028	03/25/14
35	20915-MH11	12' 6" 8 Mono	14084029	03/25/14
36	20916-PBG1	18' 8" 5 Comm	14084030	03/25/14



ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Page 1 of 1 Document ID 1V4Z487-Z0125164634



Truss Fabricator **Anderson Truss Company**
Job Identification **14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County, FL**
Truss Count **1**
Model Code **Florida Building Code 2010**
Truss Criteria **FBC2010Res/TPI-2007(STD)**
Engineering Software **Alpine Software, Versions 12.03, 13.02.**
Structural Engineer of Record
Address
Minimum Design Loads **Roof - 37.0 PSF @ 1.25 Duration**
Floor - N/A
Wind - 120 MPH ASCE 7-10 -Closed

03/25/2014

Notes

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

-Truss Design Engineer-
Douglas Fleming

1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	20903-CJ2A	1'4"15 Jack	14084020	03/25/14

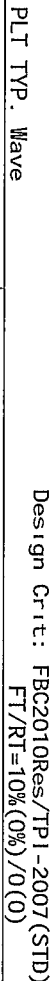
ALPINE

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC
DL=5 0 psf GCpl(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



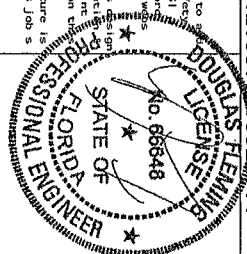
****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trussware requires extreme care in fabricating, handling, shipping, installing, and bracing of trusses. To ensure proper installation, please refer to the following information. For a complete list of trussing practices, please refer to the latest edition of BCSI (Building Component Safety) Information by TP1 and WTCO. (For safety practices, please refer to the BCSI website at www.bcsi.org.)

Trusses are notched overhead. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87, or 810, as applicable.

17R Building Components Group Inc. (17RBCG) shall not be responsible for any deviation from this design. Failure to build in conformance with ANSI/TP1-1 or for handling, shipping, installing, or bracing of trusses. Apply practices to each face of truss and post, as shown above and on the Joint Details unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing will cover page listing this drawing indicates acceptance of professional engineering responsibility. The responsibility of the Building Designer per ANSI/TP1-1, Section 2.

general notes page 17R-BCG www.17rbcg.com TP1 www.tp1inc.org WTCO www.theindustry.com www.17rcw.com



FL/-5/-/-/R/-		Scale=.375"/Ft.	
TC LL	20.0 PSF	REF	R9114- 20881
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084001
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361286
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

Top chord 2x4 SP #1-13B · B2 2x4 SP 2850F-2 3E.
Bot chord 2x4 SP #1-13B · Webs 2x4 SP #3-13B
Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC
DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MWFRS

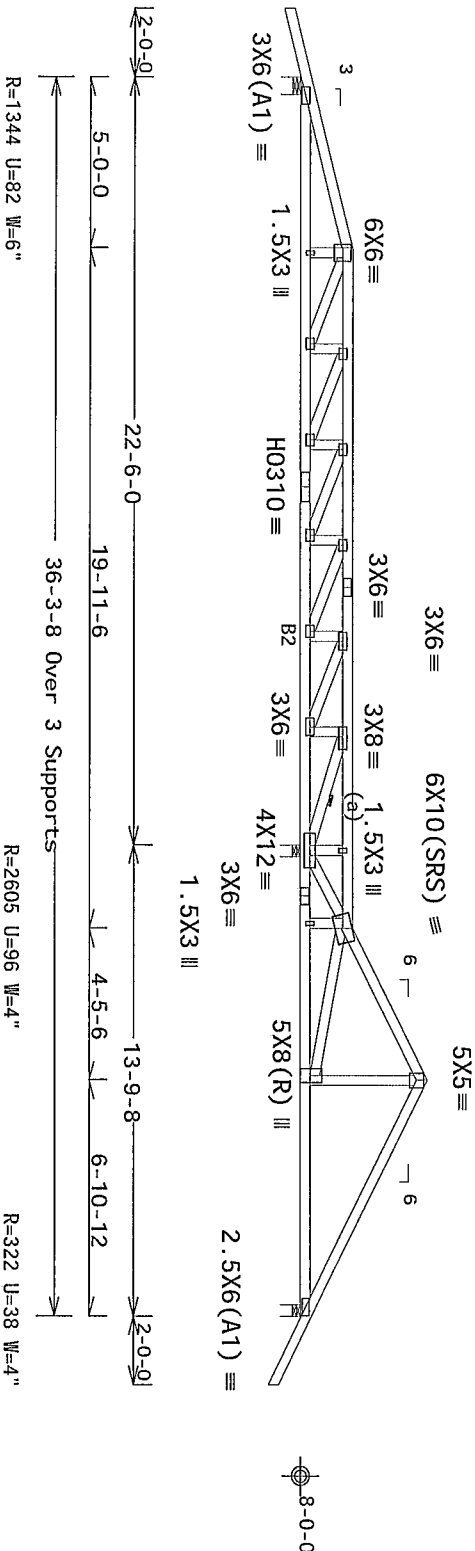
(a) Continuous lateral restraint equally spaced on member

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

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1 50

Special loads		
-----Lumber		
TC- From	Dur Fac =1.25 / Plate Dur Fac =1 25)	
TC- From	54 pif at -2 00 to 54 pif at 5 00	
TC- From	27 pif at 5 00 to 27 pif at 14 95	
TC- From	27 pif at 14 95 to 27 pif at 21 06	
TC- From	54 pif at 21 06 to 54 pif at 24 95	
TC- From	56 pif at 24 95 to 56 pif at 29 40	
TC- From	56 pif at 29 40 to 4 pif at -2 00 to 4 pif at 0 00	
TC- From	4 pif at -2 00 to 20 pif at 0 00 to 20 pif at 5 03	
TC- From	20 pif at 5 03 to 10 pif at 12 00 to 10 pif at 21 06	
TC- From	10 pif at 21 06 to 20 pif at 24 00 to 20 pif at 36 29	
TC- From	20 pif at 36 29 to 4 pif at 38 29	
TC- 169 95 lb Conc. Load at	5 03	
TC- 106 82 lb Conc. Load at	7 06, 9 06, 11 06, 13 06	
TC- 15 06, 17 06, 19 06, 21 06		
BC- 190 54 lb Conc. Load at	5 03	
BC- 79 47 lb Conc. Load at	7 06, 9 06, 11 06, 13 06	
BC- 15 06, 17 06, 19 06, 21 06		

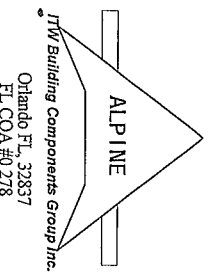


Note: All Plates Are 3X4 Except As Shown.

PLT TYP. 20 Gauge HS, Wave
Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

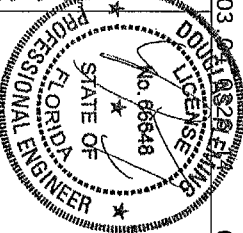
QTY: 1 FL/-/5/-/-/R/-

Scale = .1875"/Ft.



ITW Building Components Group Inc.
Orlando FL 32837
FL COA #0278

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the
latest edition of BCSI (Building Component Safety Information) by TPI and WTCA 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 web
shall have bracing installed per BCSI sections B3 B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design
any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installation
bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint.
Trusses shall be braced to draw ngs 180K-2 for standard plate positions and on the joint.
drawing or cover page listing this information. The suitability and use of this design for any structure is
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see This job is
general notes page ITW-BGS www.itwbcg.com TPI www.tpinet.org WTCA www.sbcindustry.com
10C www.locate.org



TC LL	20.0 PSF	REF R9114- 20883
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084031
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361305
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

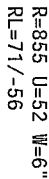
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4 50 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf. GCPI (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

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

Deflection meets $L/240$ live and $L/180$ total load Creep increase factor for dead load is 1.50



Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

$$\text{FT/RT} = 10\%(0\%) / 0(0)$$

12.03.04826 14

QTY:1

FL/-/5/-/-/R/-

Scale = .1875"/Ft.

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

These requirements are in fabricating, handling, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information by TPI and WDA) for safety practices noted for 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 soiling. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design.

bracing of trusses. 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 A seal on the drawing or cover page listing this drawing indicates acceptance of professional engineer

The suitability and use of this design for any structure is responsibility solely for the design shown

the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more information see This job s

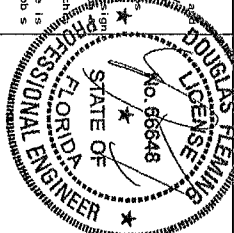
ICC www.iccsafe.org

[illegible]

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278



TC LL	20.0 PSF	REF	R9114- 20884
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCU89114 14084002
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361309
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

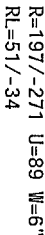
Webs 2x4 SP #3-13B

Negative reaction(s) of -270# MAX (See below) from a non-wind load case requires uplift connection

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

factor for dead load is 1.50



R=1928 U=82 W=4"

R=1061 U=57 W=4'

Design Crit: FBC2010Res/TP1-2007(STD)

$$FT/RT=10\%(0\%)/0(0)$$

12.03.04 09:26 14

QTY:1

FL/-/5/-/-/R/-

Scale = .1875"/Ft.

ALPINE

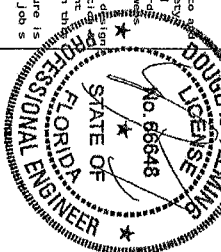
ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

****IMPORTANT**** SUBMIT THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trussess require extensive care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information) by TPI and WTCO for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses need additional top chord small have properly attached structural sheathing and bottom chord bracing. Trusses shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installing, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings B600-2 for standard plate positions. A seal on the bottom chord of the truss is required for protection of professional engineering responsibility solely for the design shown. The suitability of this structure for the intended use is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see general notes page ITW-BCG www.itwbcg.com TPI www.tpi.net WTCO www.shedindustry.com



IC LL	20.0 PSF	REF- R9114- 20885
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084003
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361313
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - A5 36'3"8 Mono Hip)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B T1 2x4 SP M-30
Bot chord 2x4 SP #1-13B B1 2x4 SP 2850F-2 3E
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

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

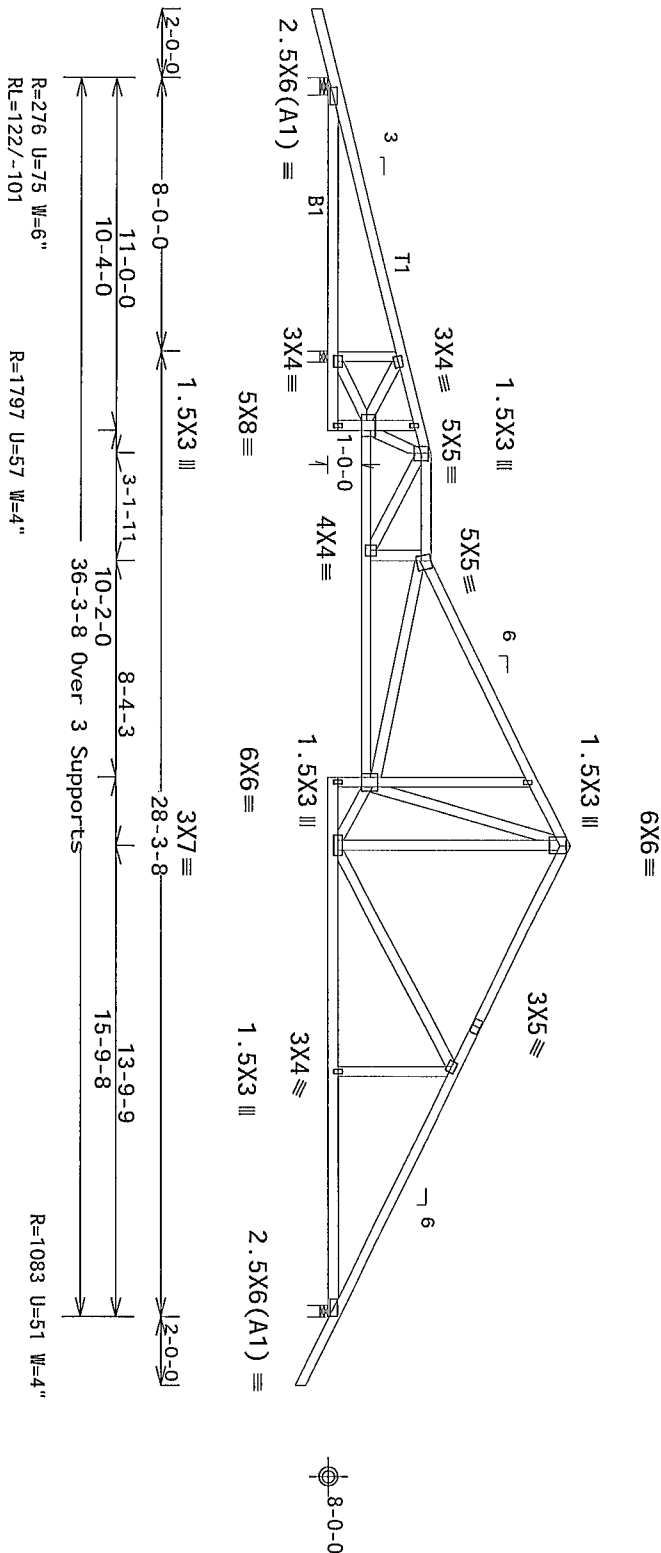
MMFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf,
wind BC DL=5 0 psf GCPI (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member
design

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1 50



PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10(0%)/0(0)

12.03.04.0826.14

QTY:1

FL/-/5/-/-/R/-

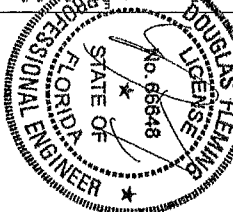
Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating handling shipping installing and bracing. Refer to the latest edition of BCSI (Building Component Survey Information by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Trusses shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/APA 1 or for handling shipping installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 180A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing indicates acceptance of professional engineering. This seal is the responsibility of the Building Designer per ANSI/TP1 1-1992. For more information see the general notes page. ITW-BCG www.itwbcg.com TPI www.tpi.net.org WCA www.structure.com
ITC www.locate.org



TC LL	20.0 PSF	REF R9114- 20886
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084004
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361364
DUR. FAC.	1.25	
SPACING	24.0"	JREF - 1V4Z487_Z01

03/25/2014

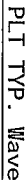
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpl (+/-)=0 18

Wind loads and reactions based on MNFRS with additional C&C member design.

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



12.03.04.03.26 14

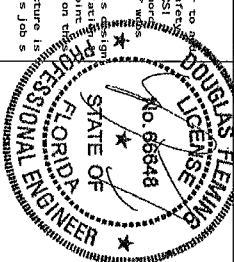
Scale = .1875"/Ft.

ITW Building Components Group Inc.

****IMPORTANT**** **MUST USE THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Tenuses require extreme care in fabricating handling shipping installing and bracing
Refer to drawings for details and dimensions. All work shall be done in accordance with the following:
follow the latest edition of BCSI (Building Component Safety Information by TPI and WTCO) for BCSI
practices prior to performing these functions. Installers shall provide temporary bracing per BCSI
shall have a properly attended rigid roof collar installed at all times. The lateral restraint of the
shall have bracing installed per BCSI sections 8, B7 or B10 as applicable.

ITW Building Components Group Inc. (TMBGSC) shall not be responsible for any deviation from this design.
any failure to build the truss in conformance with ANSI/TPI-1 or for handling shipping installation
Details unless noted otherwise. Apply plates to each face of trusses and position as shown above and on the Joint
bracing of trusses. Specify plates to section drawings TB60-2 for standard plate positions. A seal on the
the underside of the truss shall be used to prevent water intrusion. The suitable material and thickness of the
responsibility solely for the design and construction of the truss. For more information see
the responsibility of the Building Designer per ANSI/TPI-1 Sec 2. WTCA www.sbcindustry.com This Job #
general notes page ITW-BGSC www.itwbgsc.com TPI www.tpiinc.org WTCA www.sbcindustry.com



TC LL	20.0 PSF	REF	R9114- 20887
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	H05R9114 14084005
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361370
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - A7 36'3"8 Mono Hip)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B T1, T2 2x4 SP 2850F-2 3E
Bot chord 2x4 SP #1-13B B1 2x4 SP 2850F-2 3E
Webs 2x4 SP #3-13B

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf GCPI (+/-)=0.18

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

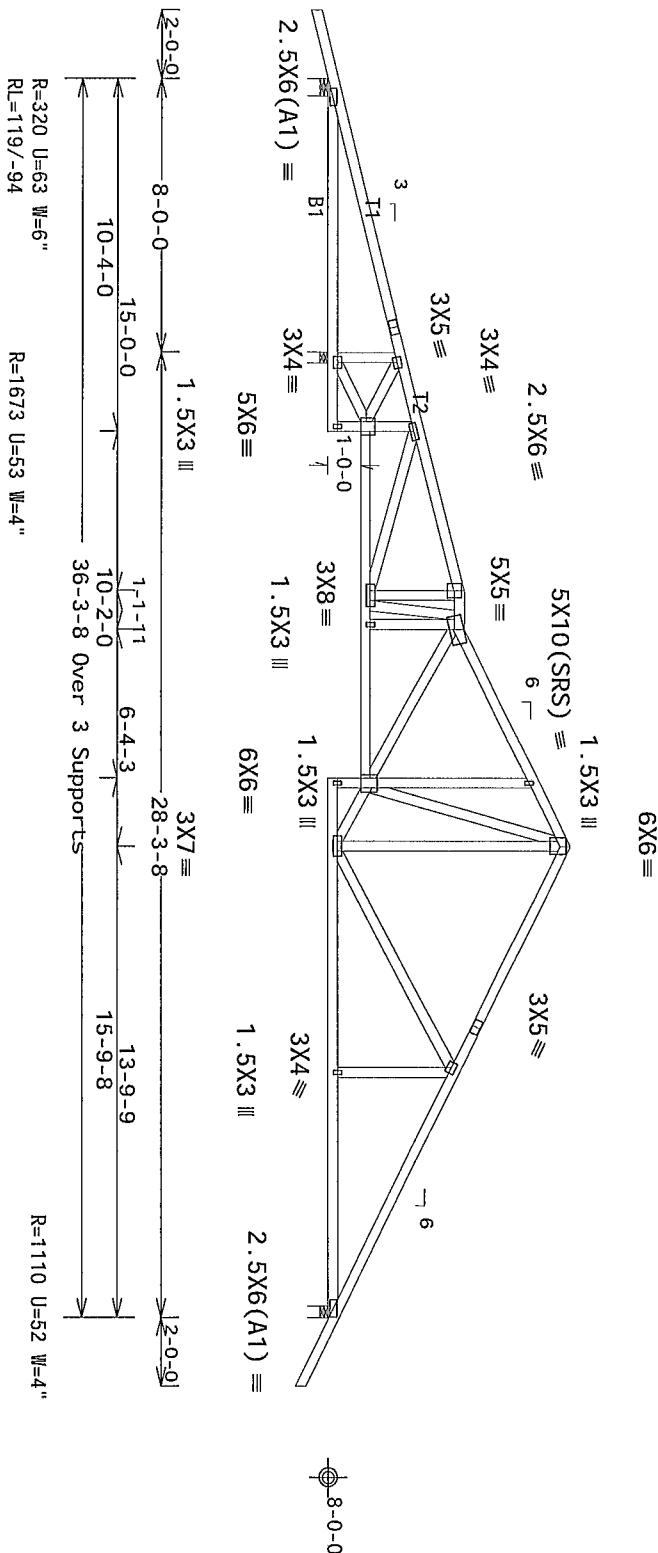
Wind loads and reactions based on MMFRS with additional C&C member design

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

Bottom chord checked for 10.00 psf non-concurrent live load

MMFRS loads based on trusses located at least 7.50 ft from roof edge

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0)/0(0)

12.03.04.0826.14

QTY:1

FL/-5/-/-/R/-

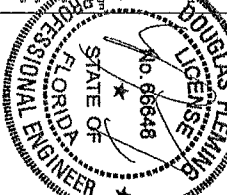
Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information) by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TP1-1 or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 1604-2 for standard plate positions. A seal on the drawing of cover page listing the drawing indicates acceptance of professional engineering. This seal is the responsibility of the Building Designer per ANSI/TP1-1 Sec 2. For more information see this Job 3 ICC www.iccsafe.org



TC LL	20.0 PSF	REF R9114- 20888
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUR9114 14084006
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEON- 361380
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

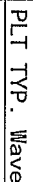
03/25/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5.0 psf GCPI (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets $L/240$ live and $L/180$ total load Creep increases factor for dead load is 1.50



12.03.2014

QTY:2 FL/-/5/-/-/R/-

Scale = .1875"/Ft.

ALPINE

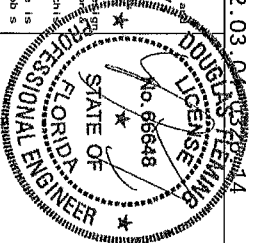
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

***** IMPORTANT ***** **FINISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trusseco requir es extensive care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety) Information by TPI and WTCO (for safety practices) prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, two (2)rd shall have properly attached structural sheathing and bottom chord shall have one (1)rd installed per BCSI sections 83, 87 or 810 as applicable.

1TR Building Components Group Inc. (1TRBGC) shall not be responsible for any deviation from this design. If a contractor is unable to follow the design, they shall be responsible for the structural integrity of the trusses. Apply plates to each face of trusses and post it on as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing shall indicate sealing and installation of professional engineer. This drawing is not to be used for any other purpose. For more information see the responsibility of the Building Designer per ANSI/TPI 1, Sec 2. This Job is for the use of the Building Designer per ANSI/TPI 1, Sec 2.

general notes page 1TR-BGC www.1trbco.com TPI www.tpinet.org WTCO www.abendustry.com www.1trbco.com



TC LL	20.0 PSF	REF	R9114- 20889
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084007
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361394
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Bot chord 2x4 SP 2850f-2 3E

Weds 2x4 SP #3-13B . W2 2x4 SP #2-13B
Wedae 2x4 SP #3-13B .

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Negative reaction(s) of -370# MAX (See below) from a non-wind load case requires uplift connection

(++) – This plate works for both joints covered.

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf wind BC DL=5 0 psf GCPI (+/-)=0 18

Wind loads and reactions based on MMF-RS

(a) Continuous lateral restraint equally spaced on member

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

MMFRS loads based on trusses located at least 7 50 ft from roof edge

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets $L/240$ live and $L/180$ total load Creep increase
 $5X5 \equiv$ factor for dead load is 1.50

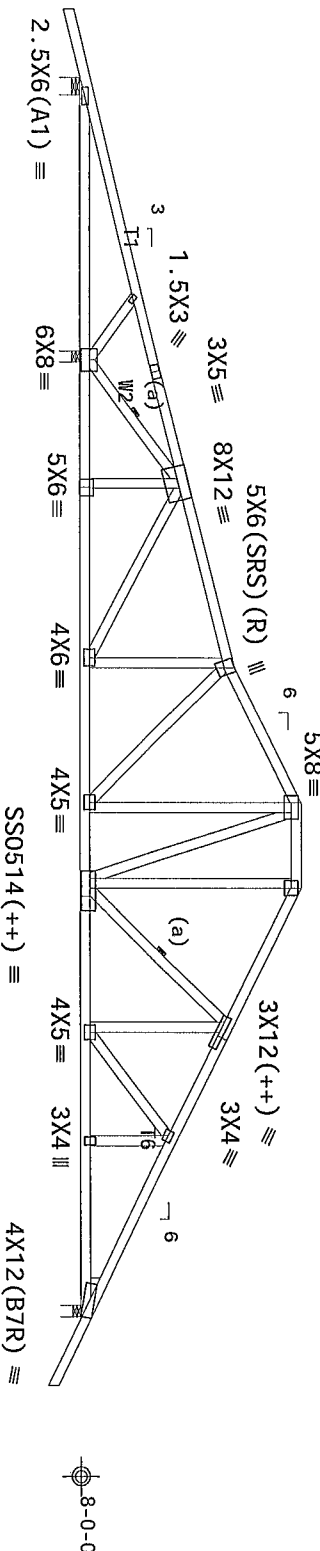


Diagram illustrating the layout of a 36'-3-8 Over 3 Supports beam. The beam is divided into four segments by three supports. The segments are labeled: 8'-0", 17'-3", 12'-6", and 28'-3". The total length is 36'-3". The beam is labeled "36'-3-8 Over 3 Supports".

R=148/-370 U=47 W=6'
RL=108/-80

R=4824 U=168 W=4'

R=3330 U=169 W=4'

PLT TYP. 18 Gauge HS, Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

2.03.04.05.06.07.08.09.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1

QTY:1 FL/-/5/-/-/R/.

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

****IMPORTANT****
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Those existing structures came in fabricating, handling, installing, and bracing. Refer to a
to allow the current edition of BCS (Building Component Safety) Information by TPI and AISC for safety
practices prior to performing these functions. Installers shall provide temporary bracing per BCS
Units not otherwise top clord shall have properly attached structural sheathing and bottom chord
shall have a properly attached rigid on ling. Locations shown for permanent lateral restraint or wind
shall have bracing installed per BCS sections E3, E7 or B10 as applicable

NO. 66648

TC DL	7.0
BC DL	10.0

DATE	03/25/14
DRW	HCUSR9114 1408401

101:ED.	37.0
DUR.FAC.	1.25

301433

03/25/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCp1(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

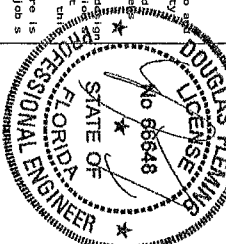
Factor	Creep increase
Deflection meets L/240 live and L/180 total load	1.50
Factor for dead load is 1.50	



ITW Building Components Group Inc.

IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Refer to the Building Component Safety Information on TPI and WTCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1 shall have a properly installed per BCS1 sections 8, 97 or B10 as applicable.

17# Building Components Group Inc. (17#BCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joist Details unless noted otherwise. Refer to drawings 180A-2 for standard plate positions. A seal on the responsibility solely for the design shown. The availability and use of this design per structure is the responsibility of the building designer per ANSI/TPI 1 Sec 2. For more information see www.tpicorp.com. This job is general notice page 17#-BCG www.17bco.com www.tpicorp.org WTCA www.sbc.industry.com OC www.locate.org



FL/-5/-/-/R/-		Scale =.5"/Ft.
TC LL	20.0 PSF	REF R9114- 20891
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCSR9114 14084008
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD	37.0 PSF	SEQN- 361268
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

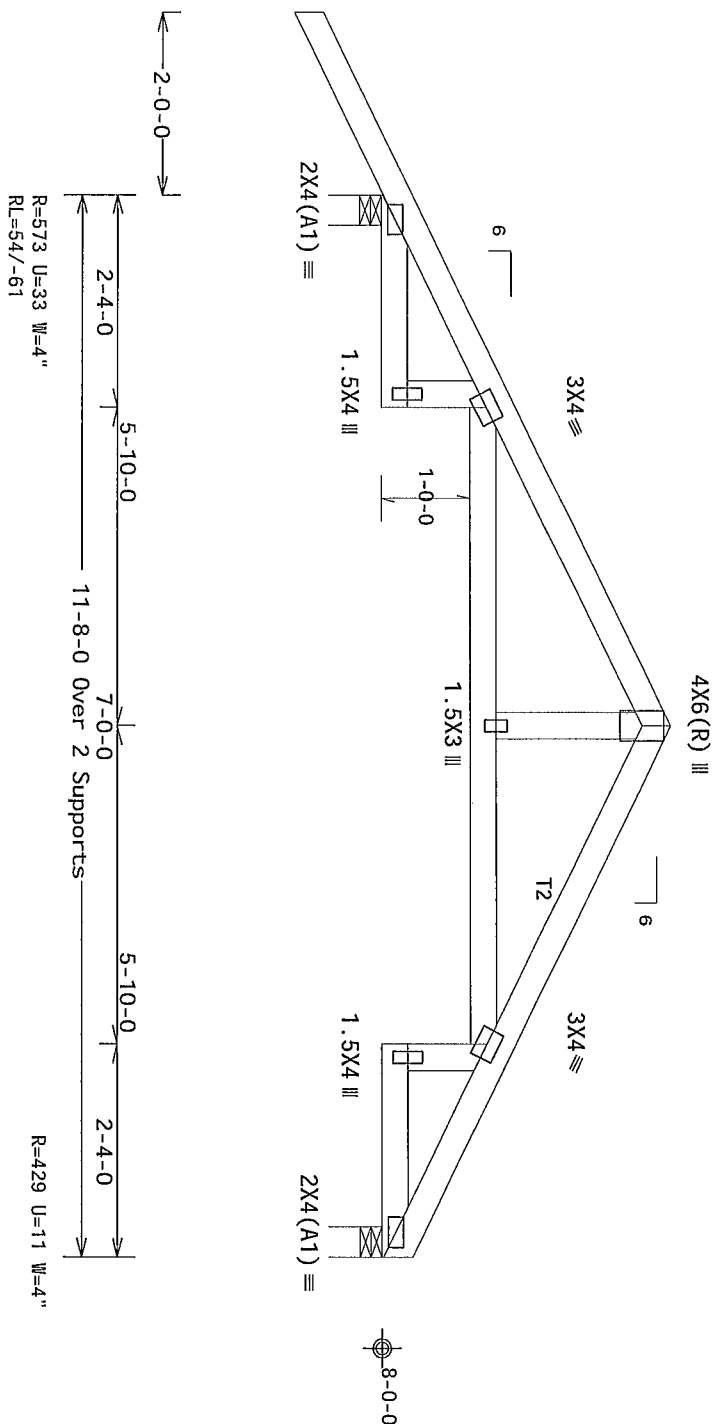
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bid, not located within 4 50 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI(+/-)=0 18

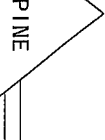
Wind loads and reactions based on MMFRS with additional C&C member design

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets $L/240$ live and $L/180$ total load Creep increases factor for dead load is 1 50



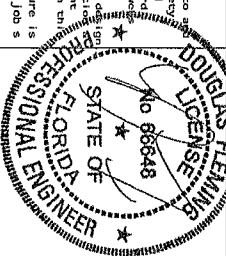
Scale = .5"/Ft.



ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0278

Tenuses require extensive care in fabricating, handling, shipping, installing, and bracing. Refer to the following for more information: [Building Component Safety Information](#) by TPI and WTCA. For safety practices prior to performing these functions, installers shall provide temporary bracing per BCSI Unstayed member attachments, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.

TPI Building Components Group Inc. (TIBCOG) shall not be responsible for any deviation from this document. If a deviation is necessary, it shall be in writing and signed by TPI and WTCA. No bracing of trusses. Apply plates to each place of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see [General Notes page TPI-BGS](#). [www.tibcog.com](#) [www.tpi.net.org](#) [www.abcdindustry.com](#)



TC LL	20.0 PSF	REF	R9114- 20892
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	H05R9114 14084002
BC LL	0.0 PSF	HC-ENG	JB/MMPF
TOT.LD.	37.0 PSF	SEQN-	360260
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - B2 11'8" Mono)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

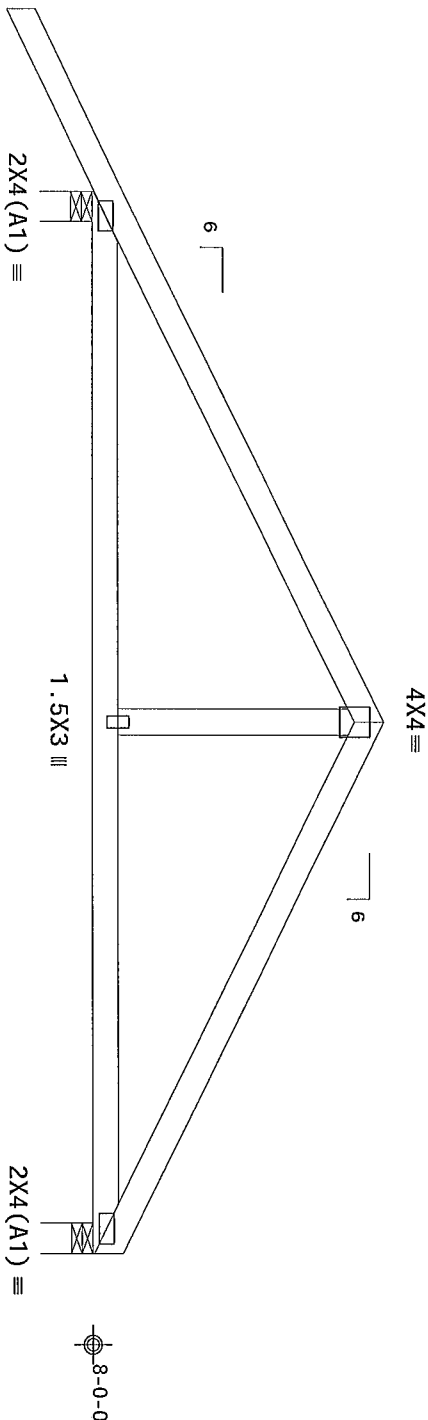
Bottom chord checked for 10.00 psf non-concurrent live load

MMFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf,
wind BC DL=5 0 psf. GCPI (+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member
design

Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1 50.



2'-0'-0" 5'-10'-0" 11'-8'-0" Over 2 Supports 5'-10'-0"

R=574 U=34 W=4"

RL=54/-61

R=429 U=11 W=4"

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)

FT/RT=10%(0%)/0(0)

12.03.04

QTY: 1 FL/-/5/-/-/R/-

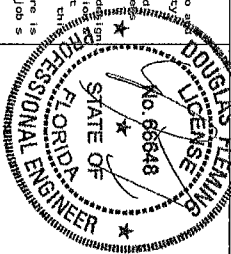
Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET**
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to
follow the latest edition of BCSI (Building Component Safety Information) by TPI and WTC 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 section 83 B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design
any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installing
bracing of trusses. Apply braces to each face of truss and position as shown above and on the Joint
drawing of cover page listing this drawing. The acceptance of professional engineering
responsibility solely for the design shown. The suitability and use of this design for any structure is
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see This Job's
general notes page ITW-BCG www.itwbcg.com TPI www.tpinet.org WTC www.abcdindustry.com
ICD www.icdarte.org



TC LL	20.0 PSF	REF R9114- 20893
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084009
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361427
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

03/25/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

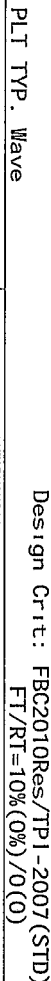
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpl(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

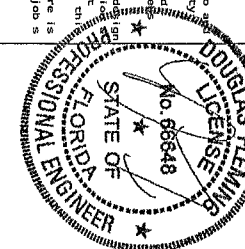


ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trussers require attention care in fabricating, handling, shipping, installing, and bracing. Refer to the following for the latest edition of BCSI's Building Component Safety Information on: by TPI and WFOA. For safety practices prior to performing these functions, installers shall provide temporary bracing per BCSI's Unbraced members. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Erection shall be for permanent lateral restraint of wood truss shall have bracing installed per BCSI's sections E3, E7 or B10 as applicable.

[illegible]

FL/-/5/-/-/R/-		Scale = .5"/Ft.	
TC LL	20.0 PSF	REF	R9114- 20894
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084010
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	37.0 PSF	SEQN-	361426
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf. GCPI (+/-)=0 18

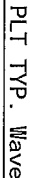
Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03.04.03295

QTY:1

FL--/5/--/R/-

Scale = .375"/Ft.

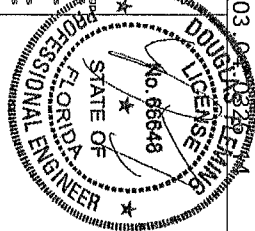
ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0 278

IMPORTANT: IN THIS SECTION ALL CONDUCTIONS INCLUDING INSTALLATIONS. Trussess require extreme care in fabricating, handling, shipping, installing, and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information on by TPI and WITCA. For safety of the project and for performing these functions, installers shall provide temporary bracing per BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web shall have bracing installed per BCSI sections 83, B7 or B10 as applicable.

1TW Building Components Group Inc. (TWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details unless noted otherwise. Refer to drawings T60-2 for standard plate positions. A seal on the bottom chord of the truss shall be applied to the bottom chord of the truss. The suitability and use of this design for the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsability of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This job is a general notes page 1TW-BCG www.twbcd.com TPI www.tpicorp.org WITCA www.abendustry.com



TC LL	20.0 PSF	REF	R9114- 20895
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	H05R9114 14084034
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361428
DUR.FAC.	1.25		
SPACING	24.0"	JREF--	1V4Z487_Z01

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - BS 12'6"8 Mono)

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

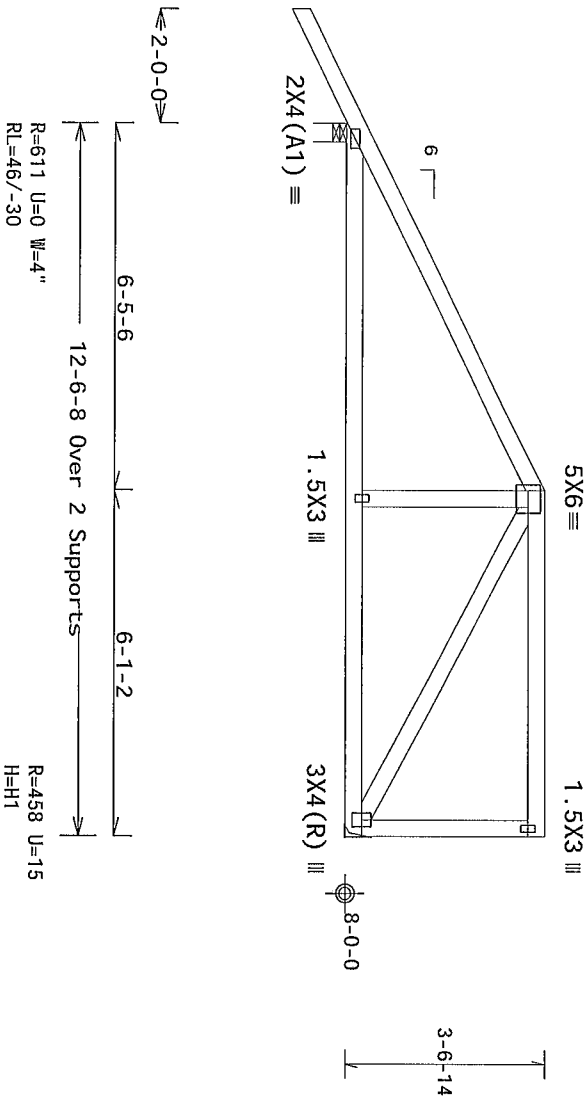
These support conditions used at bearings indicated
(H1) = L/24 w/ (1) 2x4 SP 2850f-2 3E supporting member
(4) 0 148"x3" nails into supporting member,
(2) 0 148"x1 5" nails into supported member

Bottom chord checked for 10 00 psf non-concurrent live load
MMFRS loads based on trusses located at least 15 00 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCp(+/-)=0.18
Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure
Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



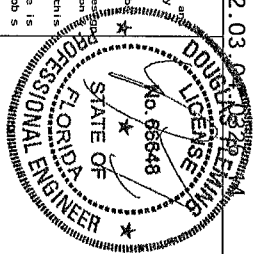
PLT TYP. Wave
Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=10%(0%)/0(0)

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating, shipping, installing and bracing. Refer to the following instructions for details. Trusses shall be installed by TPI and WFOA for factory erected trusses. Trusses shall be installed by TPI and WFOA for field erected trusses. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web shall have bracing installed per BCS sections B3 B7 or B10 as applicable.
TPI Building Components Group Inc. (TPI/BCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation or bracing of trusses. Apply bracing to each face of truss and post tension as shown above and on the joint. Do not use any other bracing or post tensioning. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This Job's general notes page. TPI-BCG www.tpiinc.org WFOA www.structure.com

ALPINE

TPI Building Components Group Inc.
Orlando FL, 32837
FL COA #0278



TC LL	20.0 PSF	REF R9114- 20896
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084013
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEON- 361425
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

03/25/2014

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5.0 psf GCP1 (+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design

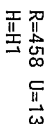
Right end vertical not exposed to wind pressure

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

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

Deflection meets L/240 live and L/180 total load Creep increase

factor for dead load is 1.50



Design Crit: FBC2010Res/TP1-2007(STD)

12.03 04:0326-14

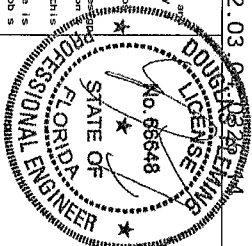
FL-/-/5/-/-/R/-

Scale = .3125"/Ft

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

ITW Building Components Group Inc

Orlando FL, 32837
FL COA #0278

[illegible]

TC LL	20.0 PSF	REF	R9114- 20897
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCSR9114 14084014
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361424
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf, GCp1(+/-)=0 18

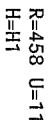
Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50


$$FT/RT = 10\%(0\%) / 0(0)$$

12.03 04 052015

QTY:1 FL--/5/--/--/R/-

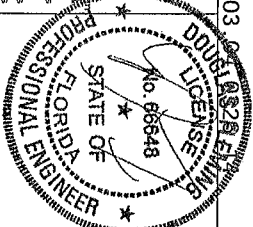
Scale = .3125"/Ft.

ITW Building Components Group Inc.

****IMPORTANT** - SUBMITTER'S DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trussus require extensive care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information by TPI and WTCA for safety practices prior to performing these functions. Installations shall provide temporary bracing per BCSI. Units are noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10 as applicable. Internal structure or webbing shall be braced.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation or bracing of trusses. Apply places to each face of Truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 180A-2 for standard plate positions. A seal on this drawing is to cover pages listing this drawing indicates acceptance of professional engineering responsibility by the Building Designer per ANSI/TPI 1 Sec 2. For more information on this structure is to be used for the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information on this structure is to be used for the general notes page ITWBCG www.ltdbcg.com TPI www.tpi.net.org WTCA www.stcindustry.com



FL/-5/-/-/R/-		Scale = .3125"/Ft.
TC LL	20.0 PSF	REF R9114- 20898
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCU8F9114 14084015
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361423
DUR. FAC.	1.25	
SPACING 24.0"		JREF- 1V4Z487 Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCp1(+/-)=0 18

Wind loads and reactions based on MNFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

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

Deflection meets $\sqrt{240}$ live and $\sqrt{180}$ total load Creep increase factor for dead load is 1.50

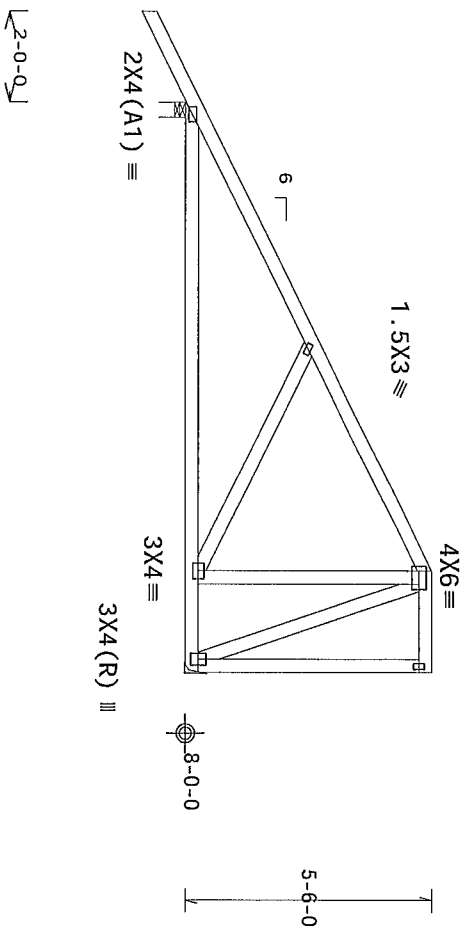


Diagram illustrating the dimensions and support locations for a beam:

- Overall length: 10-3-11
- Support locations: 2-2-13
- Span length: 12-6-8 Over 2 Supports
- Beam properties: R=611 U=0 W=4"
- Reaction values: R=458 U=6 H=H1

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03 04.03.2019
QTY: 1 FL/-/5/-/-/R/-
Scale = .25"/Ft.

ALPINE

ITW Building Components Group Inc.

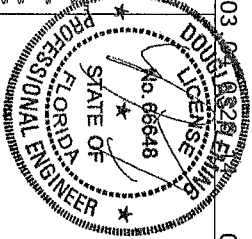
Orlando FL, 32837
FL COA #0 278

****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trussers require extensive care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety) Information by TPI and WTCa for BCSP practices prior to performing these functions. Installers shall provide temporary bracing per BCSP. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installation per BCSP sections B3, B7 or B10 as applicable.

17W Building Components Group Inc. (17WBGC) shall not be responsible for any deviation from this design due to failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 1609-2 for standard plate positions. A seal on this joint is required for the design shown. The suitability and use of this design and structure is the responsibility solely for the design shown. For more information see www.tpi.com and www.wtca.com

general notes page 17W-BGC www.17wbgc.com www.tpicorp.org www.sheldindstry.com



FL/-/5/-/-/R/-		Scale = .25"/Ft.
TC LL	20.0 PSF	REF R9114- 20839
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUR9114 14084016
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	37.0 PSF	SEQN- 361422
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf 60psi(+/-)=0.18

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Wind loads and reactions based on MMFRS with additional C&C member design

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Right end vertical not exposed to wind pressure

These support conditions used at bearings indicated
(H1) = LU24 w/ (1)2x4 SP 2850F-2 3E supporting member
(4) 0 148"x3" nails into supporting member,
(2) 0 148"x1 5" nails into supported member

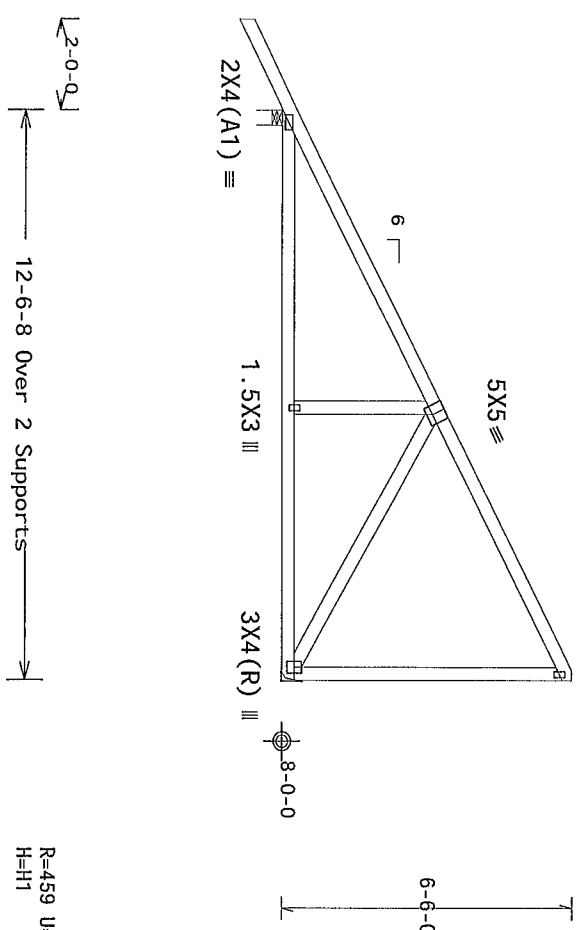
Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

Bottom chord checked for 10.00 psf non-concurrent live load

1.5X3 III

MMFRS loads based on trusses located at least 15.00 ft from roof edge.



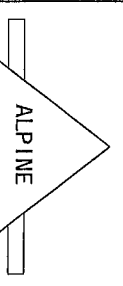
R=611 U=0 W=4"
RL=79/-41

R=459 U=0
H=H1

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03 04/25/2014 QTY:1 FL/-/5/-/-/R/- Scale = .25"/Ft.

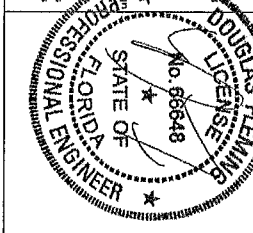


ITW Building Components Group Inc.
Orlando FL 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating handling shipping installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information) by TP1 and WTCA for BCSI 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 bracing installed per BCSI sections B3 B7 or B10 as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TP1 1 or for handling shipping installation bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. The use of any other materials or methods of installation is the responsibility of the contractor. The drawing or cover page listing this design shall indicate acceptance of project and the contractor's responsibility for the building designer per ANSI/TP1 1 Sec 2. For more information see the general notes page. ITW-BGC www.itwbcg.com TP1 www.tp1inst.org WTCA www.theindustry.com ITC www.itccare.org



TC LL	20.0 PSF	REF R9114- 20900
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084017
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361421
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_201

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - B10 12'6"8 Mono)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

H = recommended connection based on manufacturer tested capacities and
calculations. Conditions may exist that require different connections
than indicated. Refer to manufacturer publication for additional
information

These support conditions used at bearings indicated
(H1) = LU24 w/ (1) 2x4 SP 2850f-2 3E supporting member
(4) 0 148"x3" nails into supporting member,
(2) 0 148"x1 5" nails into supported member

Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1 50

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 9 00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3 5 psf,
wind BC DL=5 0 psf GCPI(+/-)=0 18

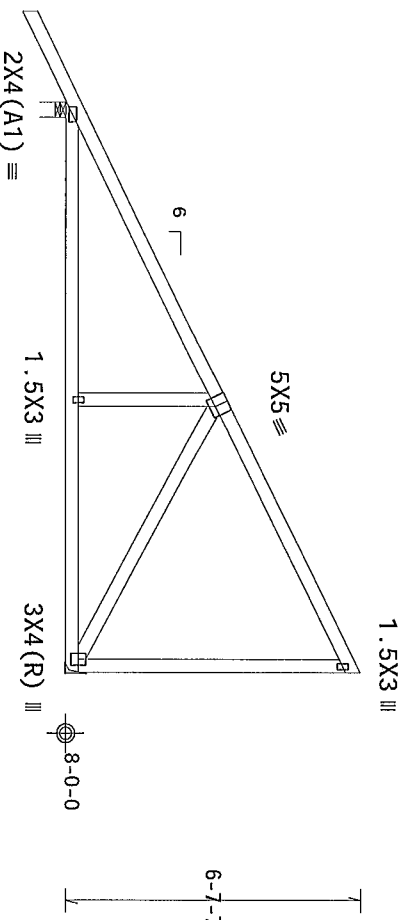
Wind loads and reactions based on MMFRS with additional C&C member
design

Right end vertical not exposed to wind pressure

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

Bottom chord checked for 10.00 psf non-concurrent live load

MMFRS loads based on trusses located at least 15.00 ft from roof
edge



12-6-8 Over 2 Supports
R=611 U=0 W=4"
RL=80/-41
R=458 U=0
H=H1

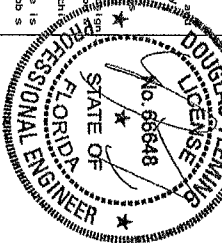
PLT TYP. Wave
Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03 04/03/2014 QTY:1 FL/-/5/-/-/R/- Scale =.25"/Ft.

ALPINE

ITW Building Components Group Inc.
Orlando FL 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****WARNING**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to
the latest edition of BCS (Building Component Safety Information) by TPI and WCA for safety
instructions. Trusses shall be installed in accordance with the instructions provided for BCS.
Unless noted otherwise, all trusses shall be installed in accordance with the instructions provided for BCS.
Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web
shall have bracing installed per BCS sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design
any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installation,
bracing, unless noted otherwise. Refer to drawings 1000-2 for standard plate positions. A seal on the
drawing indicates acceptance of professional engineering. The seal of the professional engineer is
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see This Job's
general notes page. ITW-BCG www.itwbcg.com TPI www.tpinet.org WCA www.theindustry.com



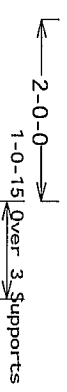
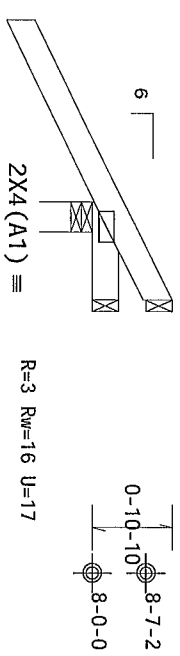
TC LL	20.0 PSF	REF	R9114- 20901
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084018
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	37.0 PSF	SEQN-	361419
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

03/25/2014

Top chord 2x4 SP #1-13B
 Bot chord 2x4 SP #1-13B
 Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC
 Bottom chord checked for 10.00 psf non-concurrent live load

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf 60mi(+/-)=0 18
 Wind loads and reactions based on MMFRS with additional C&C member design
 Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

R=-84 Rw=28 U=57



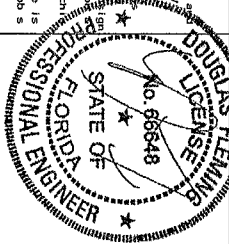
R=315 U=54 W=4"
 RL=25/-20

PLT TYP. Wave
 Design Crit: FBC2010Res/TP1-2007(STD)
 FT/RT=10%(0%)/0(0)
 12.03 04/15/2014 QTY:2 FL/-/5/-/-/R/- Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.
 Orlando FL 32837
 FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
 FURNISH THIS DES. TO ALL CONTRACTORS INCLUDING INSTALLERS
 Truss requiring special handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Components Systems Inc.) for details. Practices noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3 B7 or B10 as applicable.
 ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design drawing or cover page listing this drawing. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TP1 1 Sec 2 For more information see This Job's general notes page ITW-BCG www.itwbcg.com TP1 www.tp1inst.org WTC4 www.theindustry.com IFC www.ifcshare.org



TC LL	20.0 PSF	REF R9114- 20902
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSN9114 14084019
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEON- 361414
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_201

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - CJ2A 1'4"15 Jack)

Value Set 13B (Effective 6/1/2013)

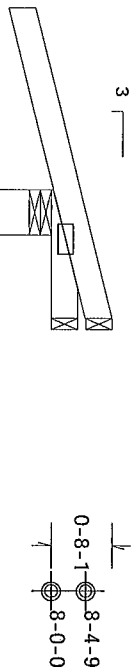
Top chord 2x4 SP #1
Bot chord 2x4 SP #1

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

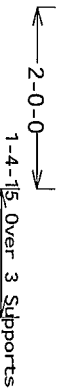
Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCP(+/-)=0.18
Wind loads and reactions based on MMFRS with additional C&C member design
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

R=-31 Rw=21 U=16



2X4 (A1) = R=4 Rw=23 U=13



R=282 U=80 W=6"

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

13.02.02.00.00.14

QTY:2 FL/-/5/-/-/R/-

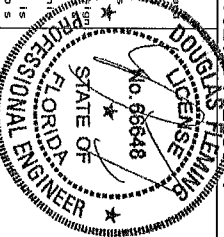
Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0 278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL SUBCONTRACTORS INCLUDING INSTALLERS
Trusses require erection using proper handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Components Systems Inc.) for detailed erection 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 bracing installed per BCSI sections B3 B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installation, bracing of trusses, or any other actions taken by the installer. The installer shall be responsible for the drawing or cover page listing this design. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see This Job 5 IBC www.license.org ITWBCG www.itwbcg.com TP1 www.tp1net.org WTCA www.abctindustry.com



TC LL	20.0 PSF	REF R9114- 20903
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084020
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	37.0 PSF	SEQN- 2694 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

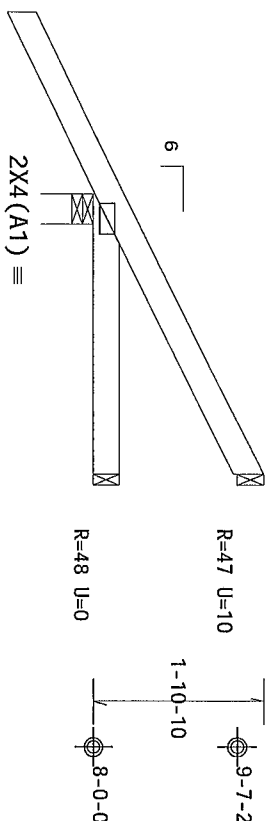
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=5.0 psf Gcpl(+/-)=0.18

Wind loads and reactions based on MNFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



2-0-0

3 0 15 Over 3 Supports

R=289 U=22 W=4'

RL=42/-24

Design Crit: FBC2010Res/TP1-2007(STD)

$$FT/RT=10\%(0\%)/0(0)$$

~~SECRET~~

QTY:2 FL/-/5/-/-/R/-

Scale = .5"/ft.

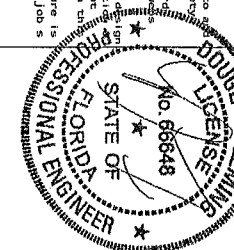
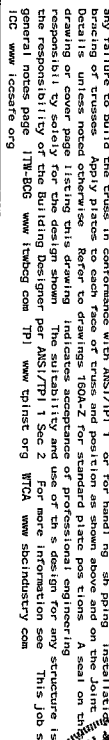
••IMPORTANT•• FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

These requirements are in fabricating, handling, shipping, installing, and bracing. Refer to the latest edition of BCSI (Building Component Safety Information by TPI and WTCO) 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 gird. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSI sections B3, B7, or B10 as appli cable.

ALPINE

TTW Building Components Group Inc

Orlando FL, 32837
FL COA #0278



TC LL	20.0 PSF	REF	R9114- 20904
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCSR9114 14084021
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361413
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - C/J3A 2'10"15 Jack)

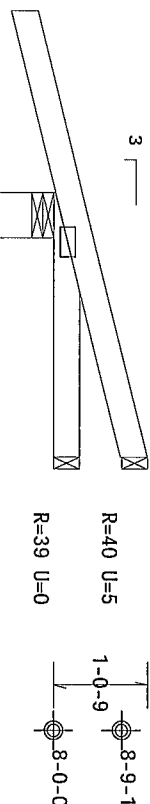
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP 2850F-2 3E
Bot chord 2x4 SP #1-13B

Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC
DL=5.0 psf GCP(+/)=0.18
Wind loads and reactions based on MMFRS with additional C&C member
design
Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1.50



2X4 (A1) =

2'-0-0"

2'-10-15 Over 3 Supports

R=280 U=58 W=6"
RL=24

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03 04/09/14

QTY:2 FL/-/5/-/R/-

Scale =.5"/Ft.

ALPINE

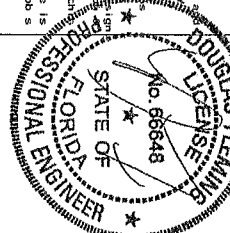
ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating handling shipping installing and bracing. Refer to the latest edition of BCS (Building Component Survey Information by TPI and WTC) for safety practices. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCS sections B3 B7 or B10 as applicable.

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design. It is the responsibility of the fabricator to ensure that the truss is built in accordance with the design. The suitability and use of this design for any general notes page ITW-BCG www.itwbcg.com TPI www.tpinet.org WTC www.theindustry.com This job is ITC www.itccafe.org



TC LL	20.0 PSF	REF R9114- 20905
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084022
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD	37.0 PSF	SEQN- 361266
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

03/25/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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

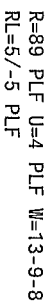
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, Exp B, wind TC DL=3 5 psf, wind BC DL=5 0 psf $GCP(+/ -)=0.18$

Wind loads and reactions based on MMFRS with additional C&C member design

See DWGS A12015ENC100212, GBLLET1N0212, & GABRST100212 for more requirements

Bottom chord checked for 10 00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



Design Crit: FBC2010Res/TP1-2007(STD)

$$FT/RT=10\%(0\%)/0(0)$$

12.03.04-0926 14

QTY:1

FL--/5/--/--/R/--

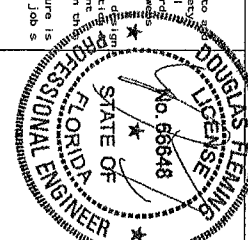
Scale = .375"/Ft.

ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trussing require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following for the latest edition of BECI (Building Component Safety) Information by TPI and WTCO for safety practices prior to performing these functions. Installers shall provide temporary bracing per BECI unless noted otherwise. Top chord shall have a properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of walls shall have bracing installed per BECI sections 6B, 6D or 6E as applicable.

any TPI Building Components Group the (WTCO) shall not be responsible for any deviation from this design. Details of trusses shall be shown on drawings 160A-2 for standard plate positions. A seal on the drawings of cover plate listing this drawing indicates acceptance of professional engineering responsibility for the design shown. The seal validity and use of this design for any structure is void if the seal is not present. For more information see the WTCO website.

TPI Building Components Group, Inc. 1716-BGS www.tpi.net
 TPI Building Components Group, Inc. 1716-BGS www.tpi.net
 TPI Building Components Group, Inc. 1716-BGS www.tpi.net
 TPI Building Components Group, Inc. 1716-BGS www.tpi.net



TC LL	20.0 PSF	REF	R9114- 20906
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	H0USN9114 14084023
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	37.0 PSF	SEQN-	361272
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487 Z01

(14-041--BRYAN ZECHER /David & Donna Hutchinson -- Columbia County , FL - DGB 11'8" Gable)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

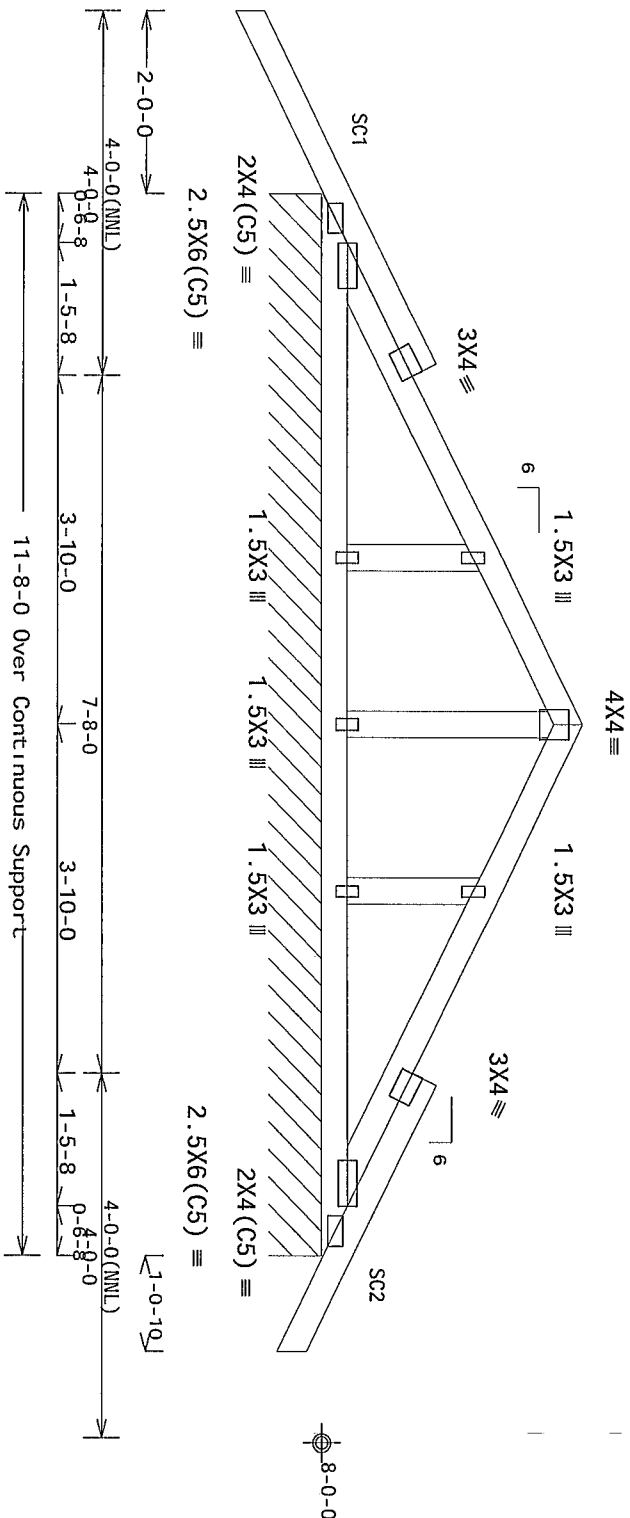
Stack Chord SC1 2x4 SP #1-13B Stack Chord SC2 2x4 SP #1-13B

Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

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

Gable end supports 8" max rake overhang

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC
DL=5.0 psf GCPI(+/-)=0.18
Wind loads and reactions based on MWFRS with additional C&C member
design
See DWGS A12015ENC100212, GBLLETT10212, & GABRST100212 for more
requirements.
Bottom chord checked for 10.00 psf non-concurrent live load
Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1.50



PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03.03.04

QTY:1 FL/-/5/-/R/-

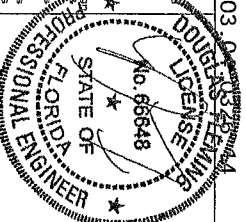
Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require erection care and handling, shipping, installing and bracing. Refer to
the following notes for details. (1) Trusses shall be erected in accordance with the
practices prior to performing these functions. (2) Trusses shall be erected in
units 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 web
shall have bracing installed per BCS sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design
any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installing,
bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint
of trusses. Trusses shall be braced in accordance with the following: (1) Trusses shall be braced
drawing or cover page listing this drawing. The suitability and use of this design for any structure is
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see This Job's
general notes page ITW-BCG www.itwbcg.com TP1 www.tp1net.org WTCA www.theindustry.com



TC LL	20.0 PSF	REF	R9114-20907
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084024
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	37.0 PSF	SEQN-	361280
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1V4Z487_Z01

03/25/2014

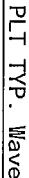
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bidg, not located within 4 50 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf,

wind BC DL=5 0 psf GCpi (+/-)=0 18

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Bottom chord checked for 10.00 psf non-concurrent live load


$$FT/RT=10\%(0\%)/0(0)$$

QTY:4 FL/-/5/-/-/R/-

Scale = .5"/Ft.

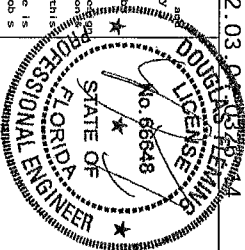
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

These require either care in fabricating, handling, shipping, installing, and bracing. Refer to the latest edition of BCSI (Building Component Safety) Information by TPI and WDA 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 bracing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of wall shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

ALPINE

ITW Building Components Group Inc

Orlando FL, 32837
FL COA #0278



TC LL	20.0 PSF	REF	R9114- 20908
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCSR9114 14084025
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361412
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

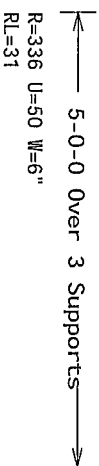
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3.5 psf,

Wind loads and reactions based on MMFRS with additional C&C member design.

Deflection meets $L/240$ live and $L/180$ total load Creep increase factor for dead load is 1.50

factor for dead load is 1.50

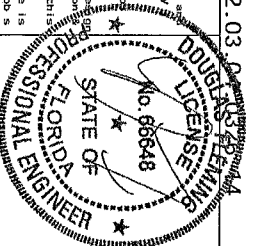


12.03

Scale = .5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL 32837
FL COA #0278

IMPORTANT
 THESE INSTRUCTIONS SHALL BE USED BY ALL CONTRACTORS INCLUDING SUBSISTERS.
 These drawings are to be used by all contractors in fabricating, handling, shipping, installing and erecting
 Trusses require extreme care in fabricating, handling, shipping, installing and erecting. Refer to
 the latest edition of BCSI Building Component Safety Information by TPI and WFOA for safety
 practices prior to performing these functions. Installers shall provide temporary bracing per BCSI
 Unless noted otherwise, top chord shall have property attached structural sheathing and bottom chord
 shall have a property attached rigid cold hat. Locations shown for permanent lateral restraint or wind
 shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.
 The Building Components Group Inc. (BCSI) shall not be responsible for any deviation from this design
 for the purpose of fabricating, handling, shipping, installing and erecting. The contractor shall be
 responsible for obtaining the necessary permits and approvals for the erection of trusses. The
 bracing of trusses, apply plates to each span of truss and position the bracing on the
 Details: Unless noted otherwise, Refer to drawings 160-2, 160-3 for standard plate positions. A seal on this
 drawing or cover page listing this design indicates acceptance of professional engineering
 responsibility solely for the design shown. The suitability and use of this design for any structure is
 the responsibility of the building designer per ANSI/APA Sec 2. For more information see
 the latest edition of TPI BCSI www.bcsigroup.com TPI 160-2 www.bcsigroup.com
 BCSI Building Components Group Inc. 160-2 www.bcsigroup.com TPI 160-2 www.bcsigroup.com



TC LL	20.0 PSF	REF	R9114- 20909
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084026
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361264
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487 Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

d with "13B" use design values approved

mean hgt, ASCE 7-10, CLOSED bldg, Located
CAT 11, EXP B, wind TC DL=3 5 psf, wind BO
.18

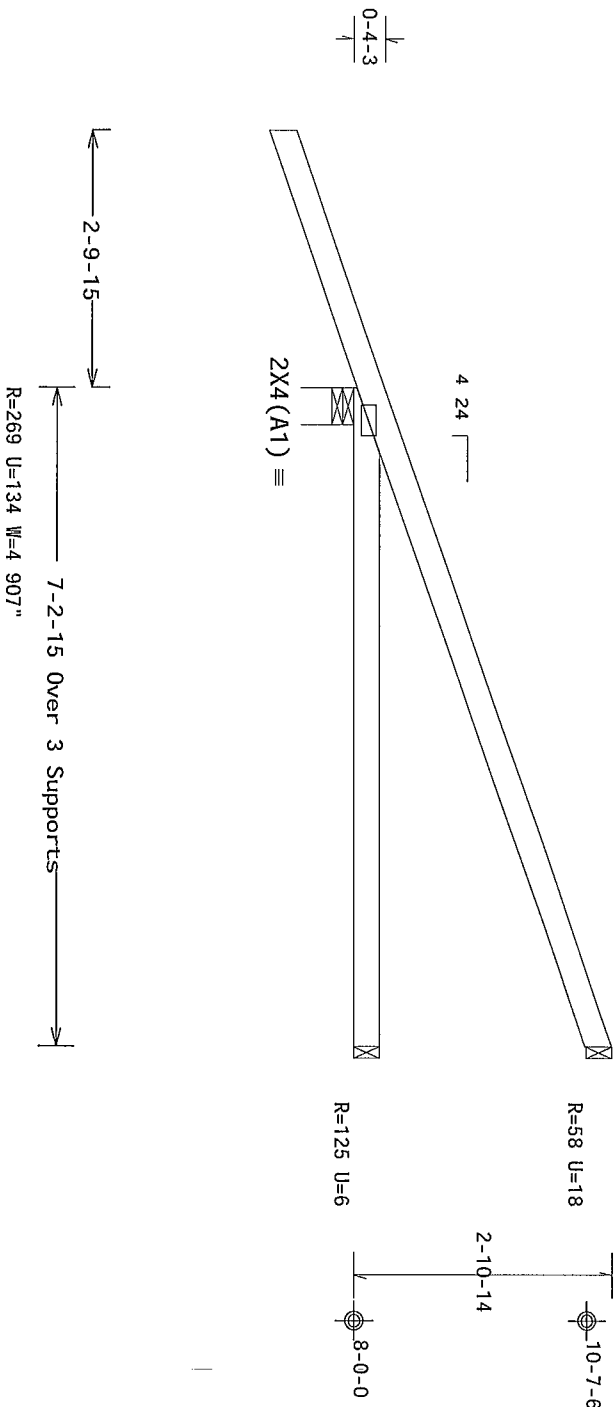
s based on MMFRS

live and L/180 total load Creep increases
1 50

Special loads

	Dur Fac = 1 25 / Plate Dur Fac = 1 25)	
-----Lumber		
TC--From	0 pif at -2 83 to	55 pif at 0 00
TC- From	2 pif at 0 00 to	2 pif at 7 24
BC- From	0 pif at -2 83 to	4 pif at 0 00
BC- From	2 pif at -0 00 to	2 pif at 7 24
TC--54 18 lb Conc	Load at 1 57	
TC- 93 56 lb Conc	Load at 4 40	
BC- 5.88 lb Conc	Load at 1 57	
BC- 96 24 lb Conc.	Load at 4 40	

Bottom chord checked for 10 00 psf non-concurrent live load



FT/RT=10%(0%)/0(0)

12.03.04.03.28.14

QTY:1

FL/-/5/-/-/R/-

Scale = .5"/Ft.

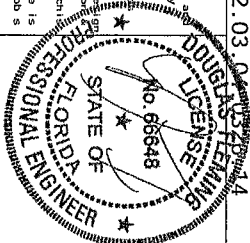
ALPINE

ITW Building Components Group Inc

Orlando FL, 32837
FL COA #0278

These requirements are for fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Building Component Safety Information by TPI and WTCA for safety practices prior to or performing these functions. Installers shall provide temporary bracing per BCSI Unitas noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid steel section. Locations shown for permanent lateral restraint of wall shall show bracing installed per BCSI sections E3, E7 or B10 as applicable.

TW Building Components Group, Inc. (TWBCG) shall not be responsible for any deviation from this document due to failure to build in conformance with ANSI/TPI 1-1 or for handling, shipping, installation details unless noted otherwise. Refer to drawings TBGA-2 for standard plate positions. 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 design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec 2. For more information see general notes page TW-BCG www.tbwbg.com TP1 www.tpinc.org WTCA www.stcindustry.com



FL/-5/-/-/R/-		Scale = .5"/Ft.	
TC LL	20 0 PSF	REF	R9114- 20910
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	H09R9114 14084032
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361429
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

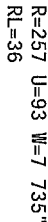
Special loads
----- (Lumber Dur.Fac = 1.25 / Plate Dur.Fac = 1.25)

TC- BC- DC	From	to	2 pif at	7 01
0	0	0.00	2 pif at	7 01
1	0	-2.83	4 pif at	0 00
2	0	0.00	2 pif at	7 01

TC-7	TC-80	BC-8	TC-7	TC-80	BC-8
35 lb Conc	10 lb Conc	15 lb Conc.	35 lb Conc	10 lb Conc	15 lb Conc.
Load at 2.04	Load at 4.16	Load at 2.04	Load at 2.04	Load at 4.16	Load at 2.04

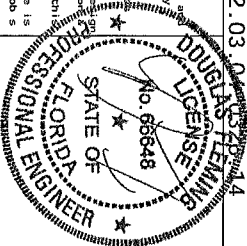
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MMFRS loads based on trusses located at least 7.50 ft from roof edge



Scale = .5"/Ft

ITW Building Components Group Inc.

[illegible]

IC LL	20.0 PSF	REF	R9114- 20911
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084033
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT. LD.	37.0 PSF	SEQN-	361301
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf,
wind BC DL=5.0 psf GCPI (+/-)=0.18

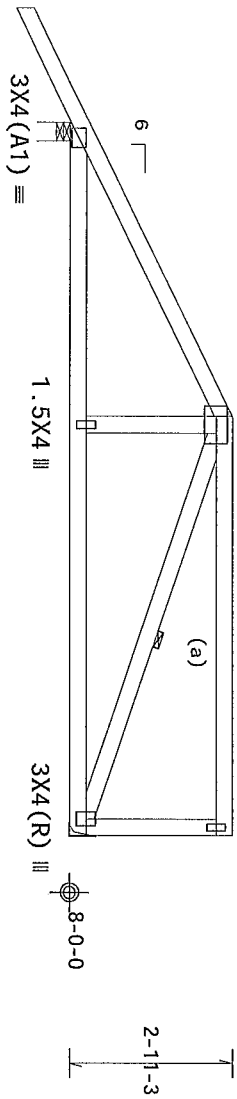
Wind loads and reactions based on MMFRS

H = recommended connection based on manufacturer tested capacities and
calculations. Conditions may exist that require different connections
than indicated. Refer to manufacturer publication for additional
information.

These support conditions used at bearings indicated
(H1) = LUS24 w/ (1)2x4 SP 2850F-2 3E supporting member
(4) SD9112, 0 131"x1 5" into supporting member,
(2) SD9212, 0 131"x2 5" into supported member

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10.00 psf non-concurrent live load
5X8 ≡



R=919 U=79 W=4"

R=863 U=52
H=H1

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03 03/25/14

QTY: 1 FL/-/5/-/-/R/-

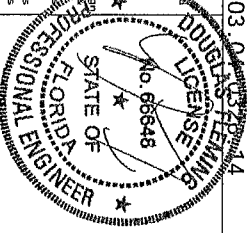
Scale = .3125"/Ft

ALPINE

ITW Building Components Group Inc.

Orlando FL 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, and bracing. Refer to
the manufacturer's instructions for proper handling and bracing. The installer shall provide
practices prior to performing these functions. The installer shall provide the necessary
Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord
shall have bracing installed per ECSI sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design
any failure to build the truss in conformance with ANSI/TP1 1 or for handling shipping, installation or
bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint.
The installer shall be responsible for the design, fabrication, and use of this design for the structure is
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see
the general notes page ITW-BCG www.itwbcg.com TP1 www.tp1net.org WTC www.wtcindustry.com This Job's
ITC www.itcrafter.org



TC LL	20.0 PSF	REF R9114- 20912
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084011
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361430
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP #1-13B
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = LUB24 w/ (1) 2x4 SP 2850f-2 3E supporting member
(4) 0 148"x3" nails into supporting member,
(2) 0 148"x1 5" nails into supported member

Bottom chord checked for 10 00 psf non-concurrent live load
MMFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf GCFI(+/-)=0.18

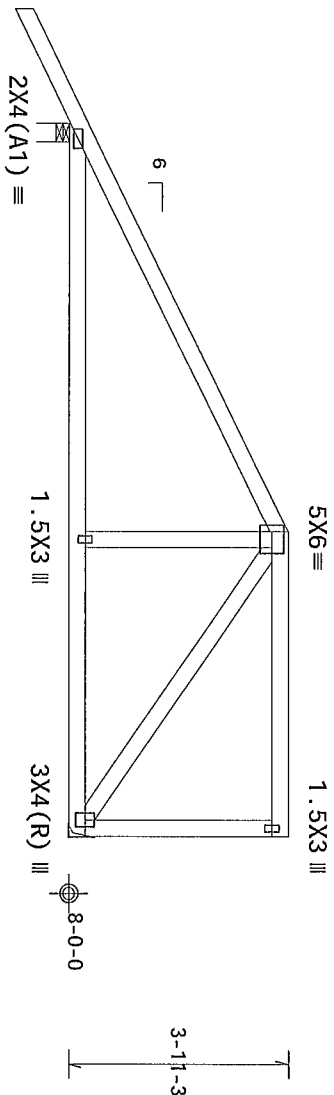
Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

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

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



R=611 U=27 W=4"
RL=75/-32

R=458 U=26
H=H1

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/RT=10%(0%)/0(0)

12.03.09

QTY: 1 FL/-/5/-/-/R/-

Scale = .3125"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL 32837
FL COA #0278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in handling, shipping, installing and bracing. Refer to the manufacturer's instructions for proper handling, shipping, installing and bracing practices prior to performing these functions. 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 BCS sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on this drawing or any part thereof shall not be used as evidence of approval. The seal on this drawing is the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see the general notes page. ITW-BCG www.itwbcg.com TP1 www.tp1inst.org WTCA www.structure.com
100% PROFESSIONAL ENGINEER
No. 68648
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R9114- 20913
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCUSR9114 14084027
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	37.0 PSF	SEQN- 361415
DUR. FAC.	1.25	
SPACING	24.0"	JREF - 1V4Z487_Z01

03/25/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf wind BC DL=5 0 psf GCPI(+/-)=0 18

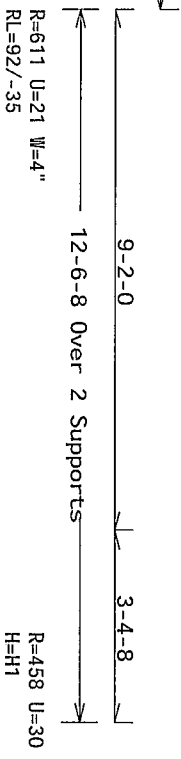
Wind loads and reactions based on MNFRS with additional C&C member design

Right end vertical not exposed to wind pressure

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

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

Deflection meets L/240 live and L/180 total load	Creep increases
factor for dead load is 1.50	



Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R9114- 20914
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCUSR9114 14084028
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361416
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1V4Z487_Z01

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

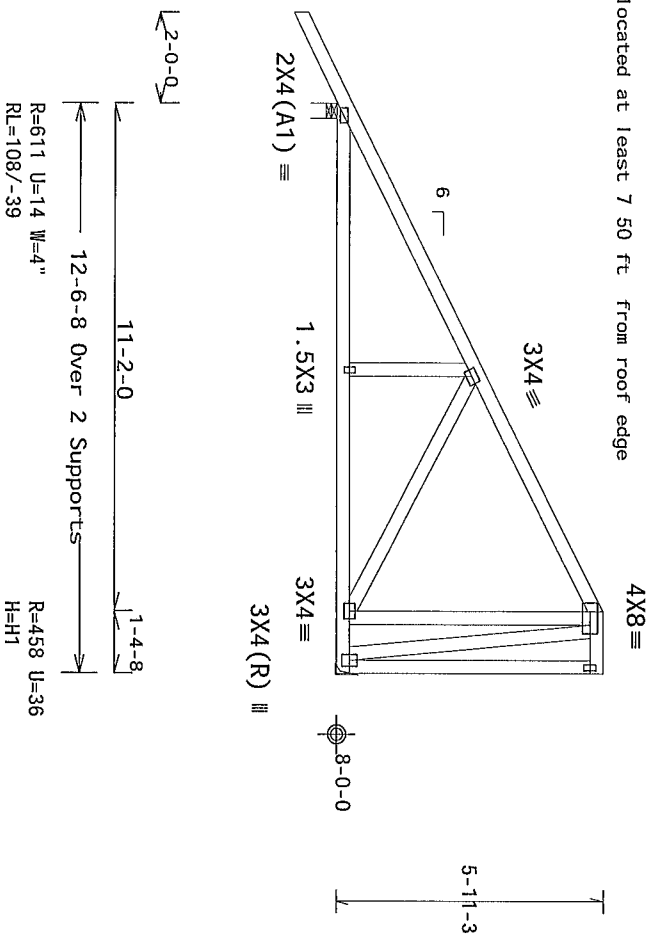
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = LU24 w/ (1) 2x4 SP 2850F-2 3E supporting member
(4) 0 148"x3" nails into supporting member,
(2) 0 148"x1 5" nails into supported member

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

M/WFRS loads based on trusses located at least 7 50 ft from roof edge



120 mph wind 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf wind BC DL=5.0 psf, GCPI(+/-)=0.18

Right end vertical not exposed to wind pressure

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

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

PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007(STD)

$$\text{FT/RT} = 10\% (0\%) / 0 (0)$$

12.03.04-0326-04

QTY:1 FL/-/5/-/-/R/-

Scale = .25"/Ft.

ALPINE

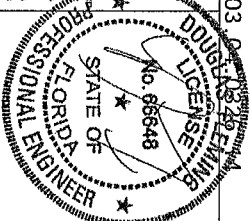
ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0 278

****IMPORTANT**** **TURN THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trussus require extensive care in fabricating, handling, shipping, installing and bracing. Refer to our website www.trussus.com for more information. To ensure proper installation, follow the latest edition of BCIS (Building Component Safety) Information by TPI and WTCO for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCIS. Trusses noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCIS sections B3, B7 or B10 as applicable.

17R Building Components Ground Inc. (17RBCG) shall not be responsible for any deviations from this design. Any failure to build the trusses in conformance with ANSI/TPI 1 or for handling, shipping, installation, bracing of trusses. Apply phrases 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 gird positions. A seal on this drawing to cover page listing this drawing and indicate assignment of professional engineering responsibility to the Building Designer per ANSI/TPI 1, Sec 2. For more information see www.trussus.com. This job general notes page 17R-BCG www.17rbcg.com TPI www.tpi.net.org WTCO www.abnindustry.com www.17rbcg.com



1 FL/-/5/-/-/R/-		Scale = .25"/Ft.	
TC LL	20.0 PSF	REF	R9114- 20915
TC DL	7.0 PSF	DATE	03/25/14
BC DL	10.0 PSF	DRW	HCSR9114 14084029
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	37.0 PSF	SEQN-	361417
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4Z487_Z01

03/25/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3 5 psf, wind BC DL=2 0 psf Gcpl(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

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

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

Refer to DWG PB160100212 for piggyback details

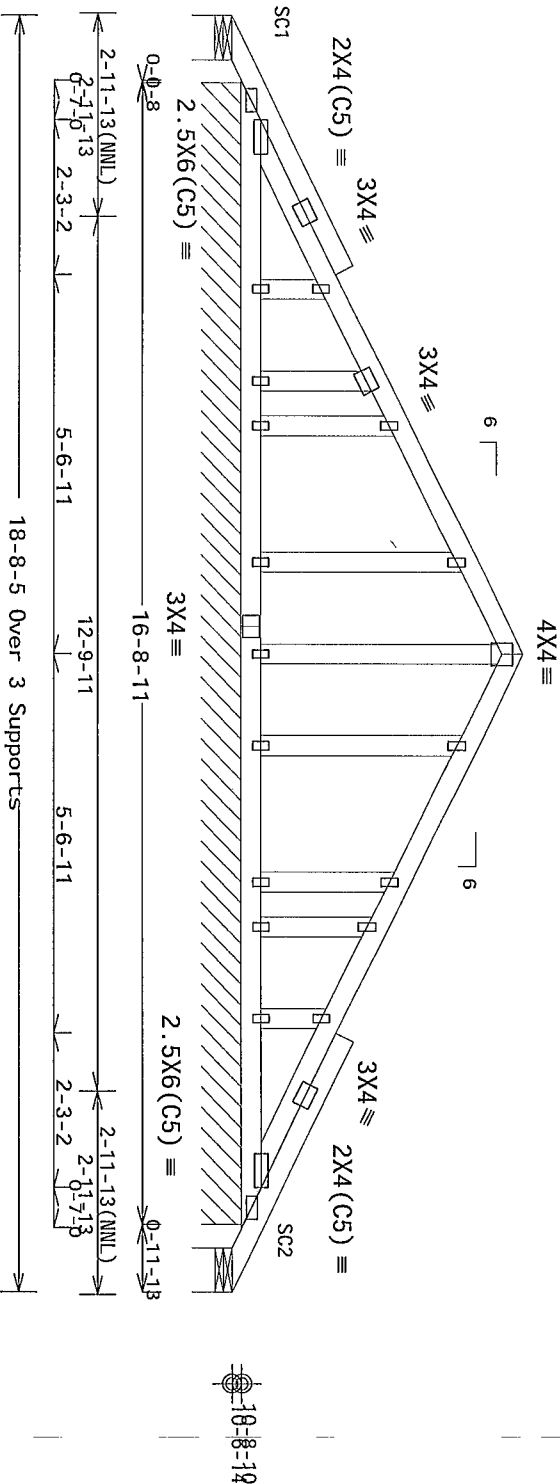
Special loads
----- (Lumber Dur Fac = 1.25 / Plate Dur Fac = 1.25)

TC-From	56	pif	at	-0.00	to	56	pif	at	3.66
TC-From	56	pif	at	3.66	to	56	pif	at	9.35
TC-From	56	pif	at	9.35	to	56	pif	at	17.17
TC-From	56	pif	at	17.17	to	56	pif	at	18.69
BC-From	4	pif	at	0.00	to	4	pif	at	8.94
BC-From	4	pif	at	8.94	to	4	pif	at	18.69

Gable end supports 8" max rake overhang

See DWG5 A12015ENC100212, GBLLET1N0212, & GABRST100212 for more requirements

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



R=-19 R_w=23 U=32 W=7 826"
RL=59/-59

R=67 PLF U=7 PLF W=16-8-11

R=-19 U=7 W=7 826"

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TP1-2007(STD)

PLT TYP. Wave

12.03.06

QTY:1 FL/-/5/-/-/R/-

Scale = .375"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

These requirements are in fabricating, handling, shipping, installing, and bracing. Refer to the latest edition of BCSI (Building Component Safety Information by TPI and WFO) 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 installed rigid collar. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design.

[illegible]

03-03-2003 03:48 PM
DOUGLAS LEWIS
LICENSE
No. 66648

03/25/2014

FL/-/5/-/-/R/-		Scale = .375"/Ft.
TC LL	20.0 PSF	REF R9114 - 20916
TC DL	7.0 PSF	DATE 03/25/14
BC DL	10.0 PSF	DRW HCU8R9114 14084030
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	37.0 PSF	SEQN- 361216
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4Z487_Z01

CLR Reinforcing Member Substitution

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

Notes

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

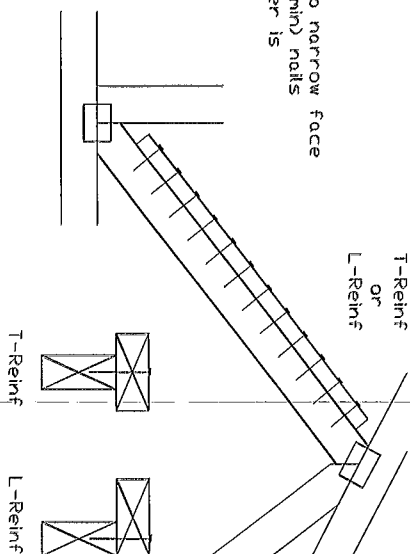
Alternative reinforcement specified in chart below may be conservative for minimum alternative reinforcement, re-run design with appropriate reinforcement type

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

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

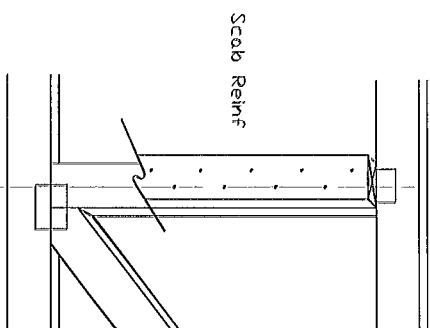
(*) Center scab on wide face of web Apply (1) scab to each face of web

T-Reinforcement
or
L-Reinforcement:
Apply to either side of web narrow face
Attach with 10d (0.128"x3.0" min) bolts
at 6" o.c Reinforcing member is
a minimum 80% of web
member length



Scab Reinforcement:

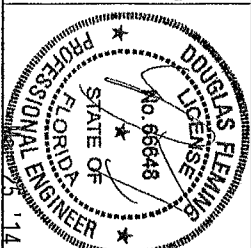
Apply scab(s) to wide face of web.
No more than (1) scab per face
Attach with 10d (0.128"x3.0" min) bolts
at 6" o.c Reinforcing member is a
minimum 80% of web member length.



Building Components Group Inc.

Earth City MO 63045

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TC LL	PSF	REF	CLR Subst
TC DL	PSF	DATE	8/15/13
BC DL	PSF	DRWG	BRCLBSUB0813
BC LL	PSF		
TDI LD	PSF		
DUR FAC			
SPACING			

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

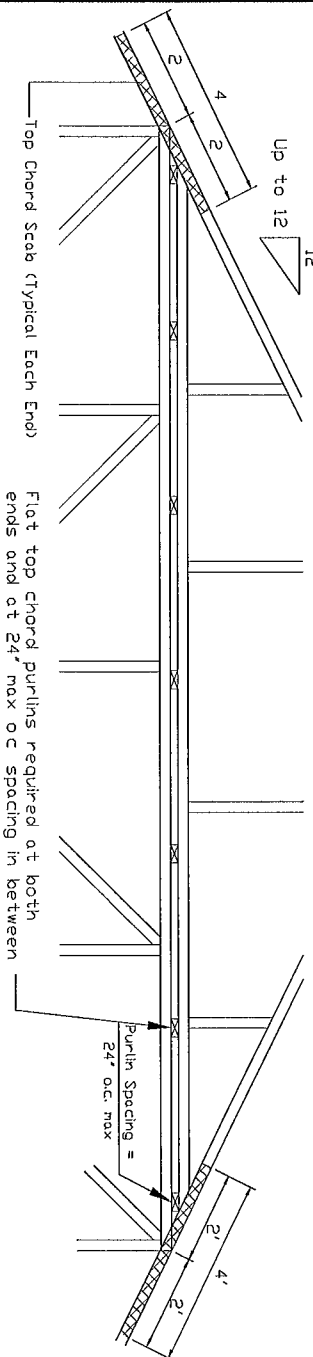
160 mph Wind 3000 ft Mean Hgt, ASCE 7-10 Enclosed Bldg located anywhere in roof, Exp C, Wind DL = 50 psf (min), Kzt=1.0
 Or 140 mph Wind 5000 ft Mean Hgt, ASCE 7-10 Enclosed Bldg located anywhere in roof, Exp D, Wind DL = 50 psf (min), Kzt=1.0

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

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

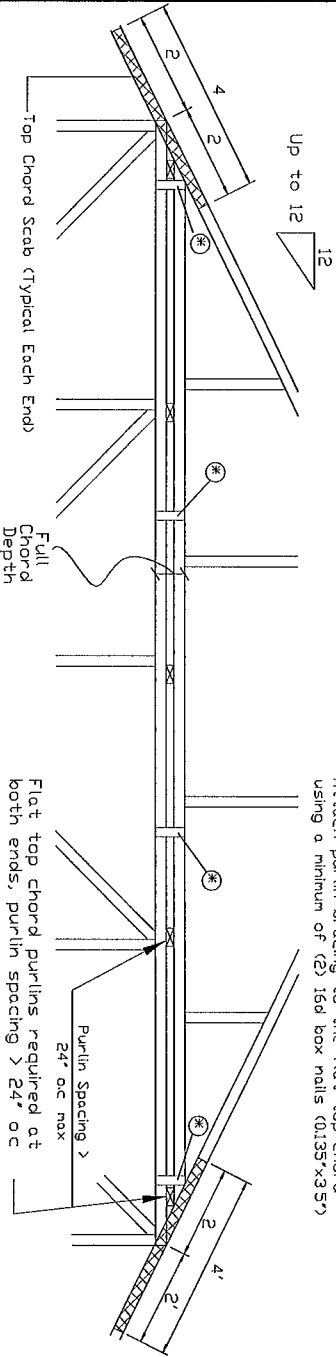
** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

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



Flat top chord purlins required at both ends and at 24' max o.c. spacing in between.

Detail B Purlin Spacing > 24" o.c.



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

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

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

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3x8 Trulox plate attached with (8) 0.120"x1.375" nails (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate placed to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

* In addition provide connection with one of the following methods:
 Trulox: Use 3x8 Trulox plates for 2x4 chord member and 3x10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

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

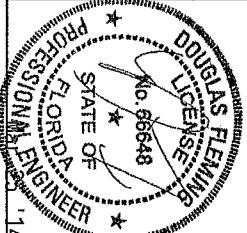
2x4 Vertical Scabs: 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

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



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****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING.**
 IMPORTANT FINISH 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 BCIS Building Component Safety Information, by TPI and VITAC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCIS. Trusses shall be braced in accordance with the BCIS Building Component Safety Information. Truss chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCIS 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 otherwise noted. Refer to drawings 1604-2 for standard plate positions.
 ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure of trusses, a seal on the drawing or cover page listing this drawing, shipping, installation & bracing of trusses. A seal on the drawing or cover page listing this drawing, indicates acceptance of the drawing by the Building Designer per ANSI/TPI 1 Sec.2.
 For more information see this job's general notes page and these web sites:
 ITWBCG: www.itwbcg.com, TPI: www.tpi.org, VITAC: www.structurety.org, ICC: www.iccsafe.org



REF	PIGGYBACK
DATE	2/14/12
DRWG	PB160100212
SPACING	24 0"