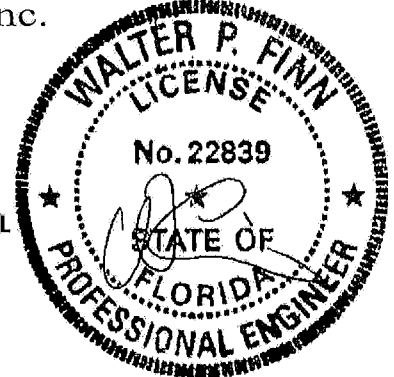


ITW Building Components Group, Inc.

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 1V4M487-Z0112132947



03/12/2014

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

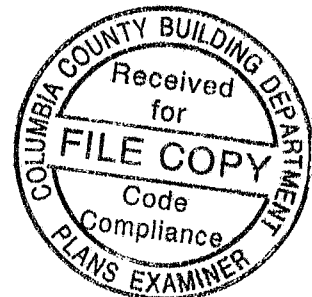
Truss Fabricator **Anderson Truss Company**
Job Identification **14-036--Fill in later /Boardman Residence -- Lake City, FL**
Truss Count **29**
Model Code **Florida Building Code 2010**
Truss Criteria **FBC2010Res/TPI-2007(STD)**
Engineering Software **Alpine Software, Versions 12.03, 13.02.**
Structural Engineer of Record **The identity of the structural EOR did not exist as of**
Address **the seal date per section 61G15-31.003(5a) of the FAC**
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: DEFLCAMB-BRCLBSUB-

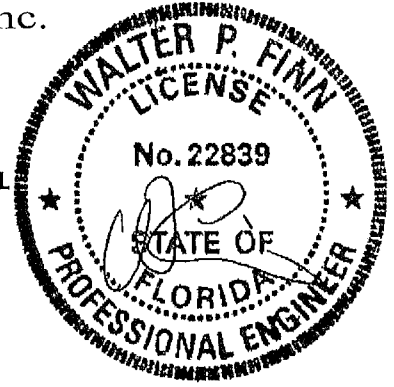
#	Ref	Description	Drawing#	Date
1	22061--A1	23' 8" Common	14071001	03/12/14
2	22062--A2	23' 8" Common	14071002	03/12/14
3	22063--A3	23' 8" Common	14071003	03/12/14
4	22064--A4	23' 8" Common	14071004	03/12/14
5	22065--A5	23' 8" Common	14071005	03/12/14
6	22066--A6	23' 8" Common	14071006	03/12/14
7	22067--A7	23' 8" Common	14071007	03/12/14
8	22068--A8	23' 8" Common	14071008	03/12/14
9	22069--A9	23' 8" Common	14071009	03/12/14
10	22070--A10	23' 8" Common	14071024	03/12/14
11	22071--B1	27' Common	14071010	03/12/14
12	22072--B2	27' Common	14071011	03/12/14
13	22073--C1	29' 8" 12 Commo	14071012	03/12/14
14	22074--C2	29' 8" 12 Commo	14071013	03/12/14
15	22075--CJ1	1' Jack	14071014	03/12/14
16	22076--CJ1A	1' Jack	14071015	03/12/14
17	22077--CJ3	3' Jack	14071016	03/12/14
18	22078--CJ3A	3' Jack	14071017	03/12/14
19	22079--CJ5	5' Jack	14071018	03/12/14
20	22080--CJ5A	5' Jack	14071029	03/12/14
21	22081--EJ6	6' 10" 8 End J	14071019	03/12/14
22	22082--EJ7	7' End Jack	14071020	03/12/14
23	22083--H7	27' Stepdown	14071025	03/12/14
24	22084--H9	27' Stepdown	14071021	03/12/14
25	22085--H11	27' Stepdown	14071022	03/12/14
26	22086--H13	27' Stepdown	14071023	03/12/14
27	22087--HJ7	9' 8" 11 Hip J	14071026	03/12/14
28	22088--HJ7A	9' 10" 13 Hip	14071027	03/12/14
29	22089--HJ7B	9' 10" 13 Hip	14071028	03/12/14



ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837
Page 1 of 1 Document ID 1V4M487-Z0112132947

Truss Fabricator **Anderson Truss Company**
Job Identification **14-036--Fill in later /Boardman Residence -- Lake City, 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



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

03/12/2014

-Truss Design Engineer-
Walter P. Finn

1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	22080-	CJ5A 5' Jack	14071029	03/12/14

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, 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

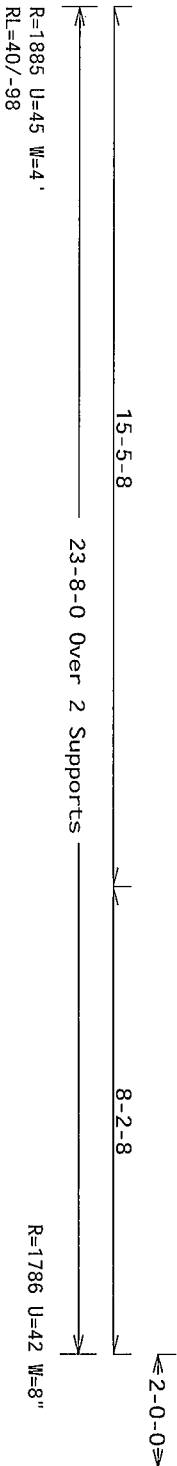
wind BC DL=5 0 psf GCP1 (+/-)=0 18

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

Max JT VERT DEFL LL 0 18" DL 0 24" See detail DEFLCMBU813 for member recommendations. Probe incorporating this truss requires

consideration for ponding design by Building Designer

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf, from



Scale = .3125"/Ft.

REF R9114- 22061

DATE 03/12/14

DRW HCUSR9114 1407100

HC-ENG JB/WPF

SEON- 342648

IDEF 11/JAN87 701

1041407_201

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A2 23 8 Common)

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

Top chord 2x4 SP M-30
Bot chord 2x10 SP SS-13B
Webs 2x4 SP #3-13B W2 2x4 SP #2-13B
W3 2x4 SP 2850F-2 3E

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

Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 32 DL 0 43 See detail DEFLCAMB0813 for camber recommendations. Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf DL = 10 00 psf from 3-8-0 to 16-8-0

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

Calculated horizontal deflection is 0 15 due to live load and 0 20 due to dead load

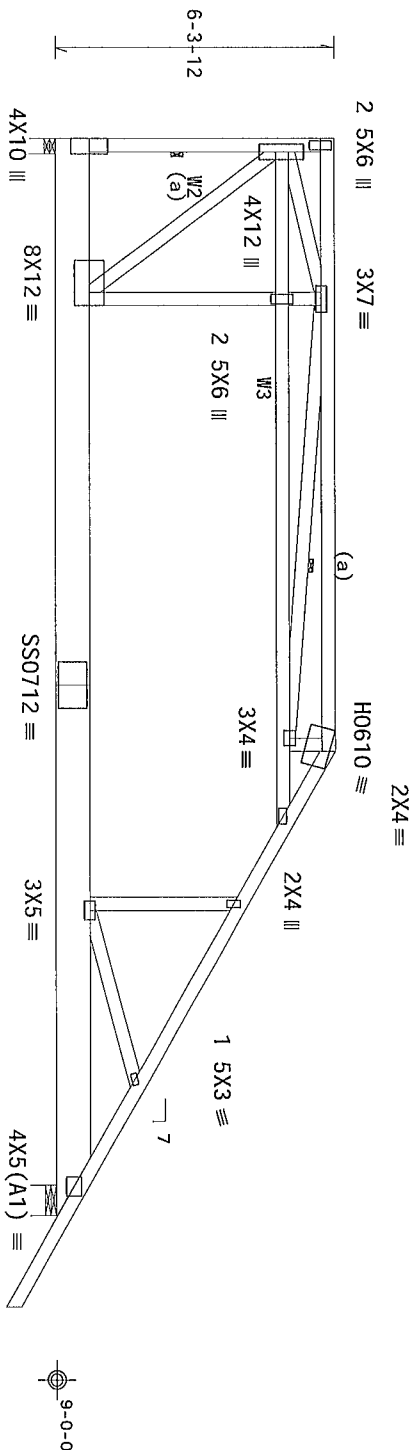
(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24 0C

Collar-tie braced with continuous lateral bracing at 24 0C or rigid ceiling

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

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



13-5-8
23-8-0 Over 2 Supports
10-2-8
R=1890 U=48 W=4
RL=44/-117
R=1787 U=37 W=8"

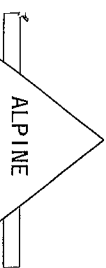
PLT TYP 20 Gauge HS, 18 Gauge HS, Design Crit FBC2010Res/TP1-2007(STD)
Wave FT/RT=10%(0%)/0(0)

12.03.04

QTY: 1

FL/-/4/-/-/R/-

Scale = .25"/Ft.



ITW Building Components Group Inc.

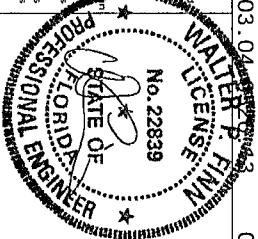
Orlando FL, 32837
FL COA #0278

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS SHEET.

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses must be extreme care in fabricating handling shipping installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information) by TPI and 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 web.

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 shall be the responsibility of the contractor. ITWBCG shall not be responsible for any failure to build the truss in conformance with ANSI/TP1-1 or for handling shipping installation or bracing. Refer to drawings 180A-2 for standard plate connections. A seal on this drawing or cover page stating this drawing is the property of ITWBCG 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 the general notes page ITW BCS www.itwbcg.com TPI www.tpinet.org WTC www.abcdindustry.com IBC www.lobate.org



03/12/2014

TC LL	20.0 PSF	REF	R9114- 22062
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HGUSR9114 14071002
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT. LD.	37 0 PSF	SEON-	342625
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1V4M487_Z01

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

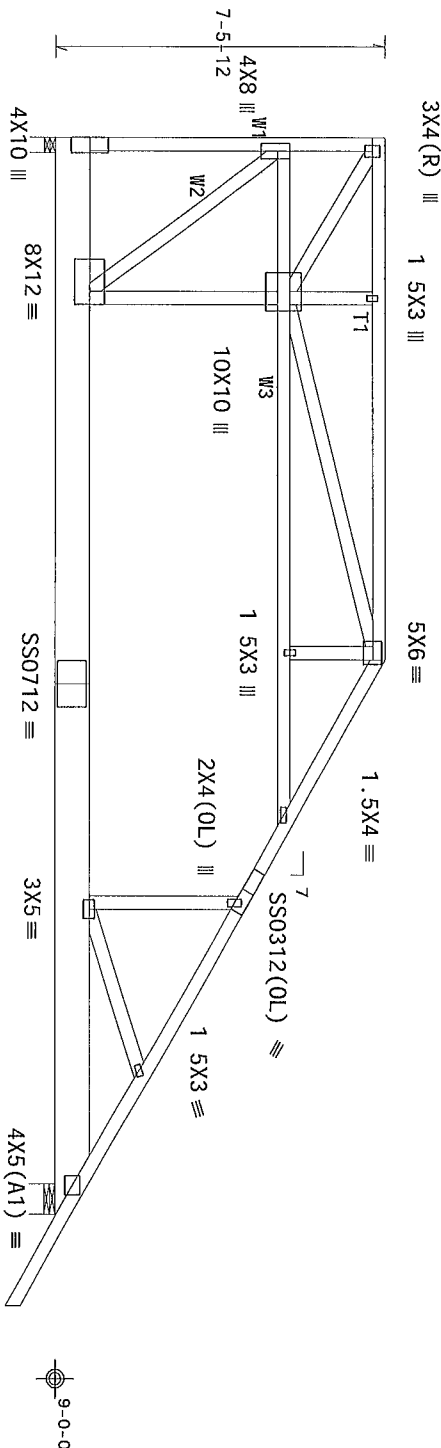
120 mph wind within 9.00 ft of roof edge	15.00 ft mean hgt	ASCE 7-10 RISK CAT 11	CLOSED bldg, not located	EXP B	wind TC	DL=3.5 psf
BC D1=0.00	0.18					

Calculated horizontal deflection is 0.14 due to live load and 0.19 due to dead load

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
Collar-tie braced with continuous lateral bracing at 24" OC or rigid
diaphragm

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



PLT TYP	18 Gauge HS,Wave	FT/RT=10%(0%)/0(0)

12.03.04 12:36 PM QTY:1 FL/-/4/-/-/R/- Scale = .25"/Ft.

••IMPORTANT••

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

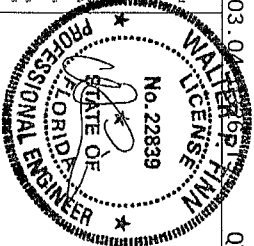
ALPINE

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

Tenures require extreme care in fabricating and handling shipping materials and braces. Refer to the latest edition of BCSI (Bridging Construction Safety Information) by TPI and WJCA for safety practices needed or to perform these functions. Installers shall provide comprehensive training per BCSI standards. All installers shall have properly attended structural shoring and bottom chord steel erection training. If training is not provided for permanent lateral restraint of walls, shall have training indicated per BCSI Sects. ones B3, B7 or B10 as applicable.

The Building Components Group Inc. (TBGCO) shall not be responsible for any deviation from the design drawings or specifications. Apply plates to each face of trusses and posts at all connections. Truss bracing and end trusses. Apply plates to each face of trusses and posts at all connections. Deck is unnotched around. Refer to drawings TBGCO-2 for standard plate positions. A seal on the drawing or cover page 1 set of this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of the 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 TBGCO www.tbogco.com TPI www.tpi.net org WJCA www.sbc industry com

CCT www.cctccorp.com



03/12/2014

FL/-/4/-/-/R/-		Scale = .25"/Ft.	
TC LL	20.0 PSF	REF	R9114- 22063
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071003
BC LL	0 0 PSF	HC-ENG	JB/WMPF
TOT.LD	37.0 PSF	SEQN-	342596
DUR FAC.	1.25		
SPACING	24 0"	JREF-	1V4M487_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

Calculated horizontal deflection is 0.15" due to live load and 0.22"

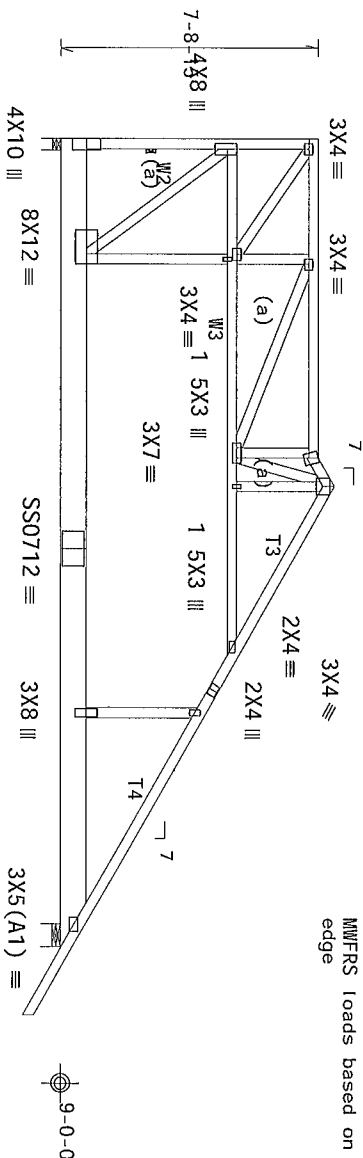
due to dead load

Max JT VERT DEFL LL 0 35" DL 0 47" See detail DEFLCAMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf; from 3-8-0 to 16-8-0

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



MMWFRS loads based on trusses located at least 15 00 ft from roof edge

Design Crit FBC2010Res/TP1-2007(STD)

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

12.03.04 15:38 651

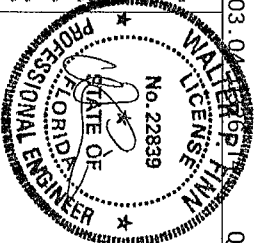
QTY.1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

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

ITW Building Components Group Inc

Orlando FL, 32837
FL COA #0278



TC LL	20.0 PSF	REF	R9114- 22064
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071004
BC LL	0.0 PSF	HC-ENG	JB/MFP
TOT LD	37 0 PSF	SEON-	22938
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

Top chord 2x4 SP #1-138 T3 T4 2x4 SP M-30
 Bot chord 2x10 SP #3-138 W2 2x4 SP #2-138
 Webs 2x4 SP #3-138 W3 2x4 SP 2850F-2 3E

Lumber grades designated with 138 use design values approved 1/30/2013 by ALSC

Left end vertical not exposed to wind pressure

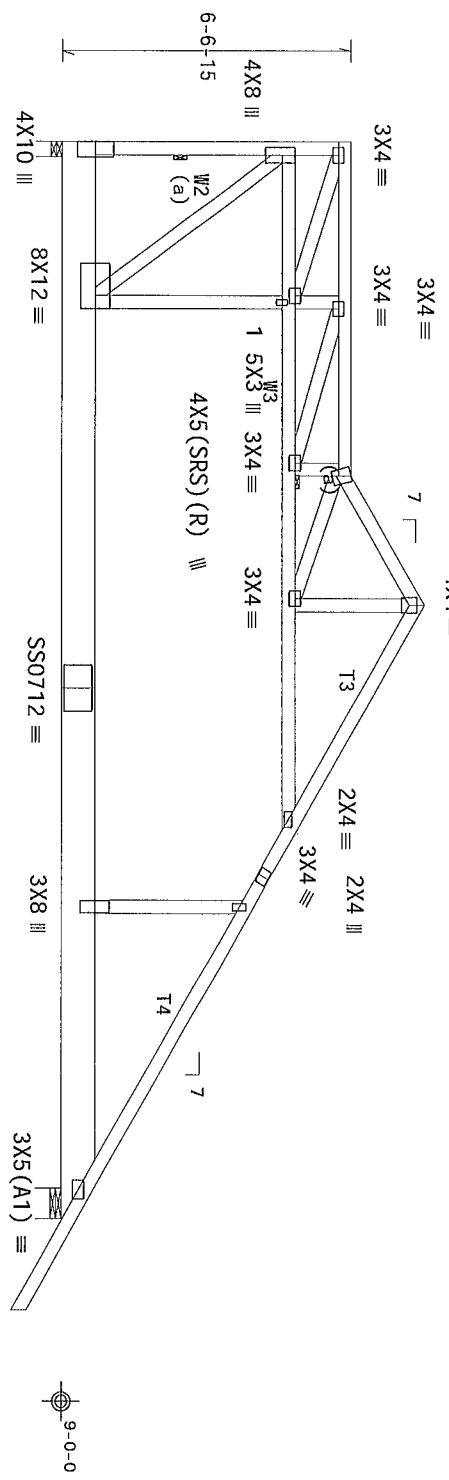
Max JT VERT DEFL LL 0.37 DL 0.49 See detail DEFLCMB0813 for camber recommendations Roofs incorporating this truss require consideration for ponding design by Building Designer

Bottom chord checked for 10.00 psf non-concurrent live load

BC attic room floor loading LL = 40.00 psf DL = 10.00 psf from 3-8-0 to 16-8-0

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

120 mph wind, 15.00 ft mean htg, 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 Gcpl (+/-)=0.18
 Wind loads and reactions based on MMFRS with additional C&C member design
 Calculated horizontal deflection is 0.16 due to live load and 0.23 due to dead load
 (a) Continuous lateral restraint equally spaced on member in lieu of structural panels use purlins to brace all flat TC @ 24 OC
 Collar-tie braced with continuous lateral bracing at 24 OC or rigid ceiling
 Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



7'-4-0 2'-10-0 13'-6-0
 23'-8-0 Over 2 Supports
 R=1890 U=2 W=4"
 RL=69/-105
 R=1787 U=0 W=8"

PLT TYP 18 Gauge HS, Wave Design Crit. FBC2010Res/TP1-2007(STD) FT/RT=10%(0%)/0(0) 12 03 06 2014 QTY. 1 FL/-/4/-/R/- Scale = .25"/Ft.

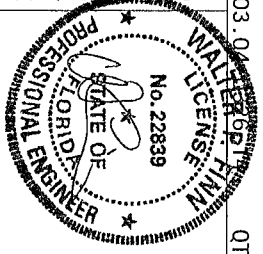
WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating handling shipping and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information on by TPI and WTC. For safety practice 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 1" gusseting. Locations shown for permanent lateral restraint of webs shall have blocking installed per BCSI sections B3 B7 or B10 as applicable.

TPI Building Components Group Inc. (TPI/BCG) shall not be responsible for any deviation from this design and/or construction. The user assumes all responsibility for the design and construction of the building. Details unless noted otherwise. Refer to drawing page listing this drawing. The user shall verify and use of this design for any structure. The response by TPI of the Building Design Group Inc. per ASCE/TP1 1 Sec 2. For more information see this Job's general notes page TPI BCG www.tpi.org www.tpiinc.com www.tpiindustry.com

ALPINE

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



TC LL	20.0 PSF	REF	R9114- 22065
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	H05R9114 14071005
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LB	37.0 PSF	SEQN-	23006
DUR. FAC	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

T4 2x4 SP M-30

Bot chord 2x10 SP SS-13B B2 2x10 SP #1 Dense-13B
Webs 2x4 SP #3-13B W1 2x4 SP #2-13B

W3 2x4 SP M-30

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

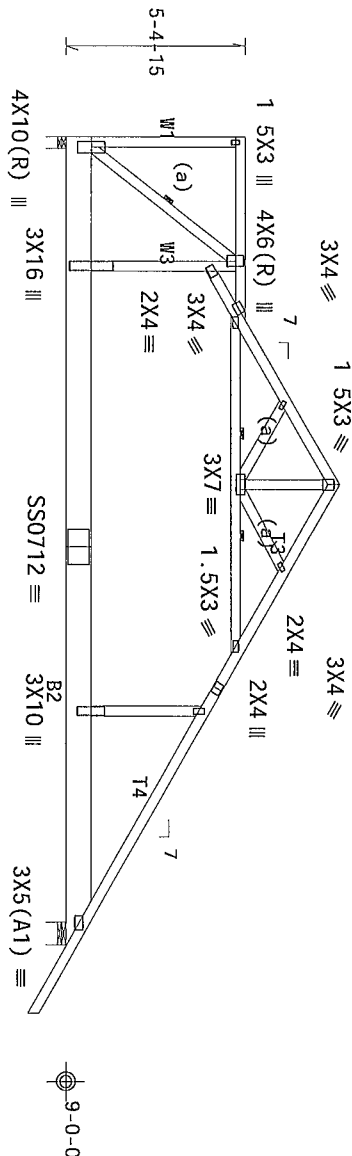
Left end vertical not exposed to wind pressure

(a) Continuous lateral restraint equally spaced on member

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

Collar-tie braced with continuous lateral bracing at 24" OC or rigid ceiling

Deflection meets $L/240$ live and $L/180$ total load Creep increases factor for dead load is 1.50 $4 \times 4 \equiv$



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

Calculated horizontal deflection is 0.15" due to live load and 0.21" due to dead load

Max JT VERT DEFL LL 0 33" DL 0 45' See detail DEFLCAMB0813 for camber recommendations
Roofs incorporating this truss require consideration for ponding design by Building Designer

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

BC attic room floor loading LL = 40 00 psf, DL = 10 00 psf, from 3-10-15 to 16-8-0

edge
MMFRS loads based on trusses located at least 15 00 ft from roof

PLT TYP 18 Gauge HS, Wave

Design Crit: FBC2010Res/TP1-2007(STD)
FT/DT: 100%/0%/0%/0%/0%

12.03.04

QTY.1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

R=1866 U=0 W=4"
RL=82/-110

R=1784 U=0 W=8

ALPINE

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 their carrying and handling. All bracing and blocking shall be installed prior to erection of trusses. Refer to drawings for details.

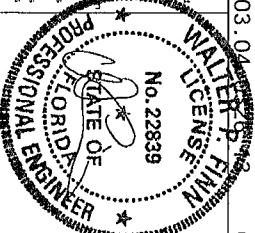
Follow the latest edition of BCSI (Building Code Specification Institute) for safety practices per or to perform any truss function. Installations shall provide temporary bracing per BCSI.

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 section 8.6 Br or B10 as applicable.

ITW Building Components Group Inc. (ITWBGC) shall not be responsible for any deviation from this design or failure to build the trusses in conformance with ANSI/TPI-1 or for handling, installation, erection or use of the trusses. Apply placings to each face of trusses and points on as shown above and on the Joist brace. The undersides of trusses shall refer to drawings ITB0-2 for standard plate positions. A seal on the underside of the trusses shall be applied to the underside of the trusses.

The responsibility solely for the design shown. The suitability and use of the trusses are 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.org WTC www.dac-industry.com

CDC www.cdc.org



03/12/2014

TC LL	20 0 PSF	REF R9114- 22066
TC DL	7 0 PSF	DATE 03/12/14
BC DL	10 0 PSF	DRW HCUSR9114 14071006
BC LL	0.0 PSF	HC-ENG JB/WMPF
TOT.LD	37 0 PSF	SEQN- 341943
DUR FAC	1.25	
SPACING	24 0"	JREF- 1V4M487_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

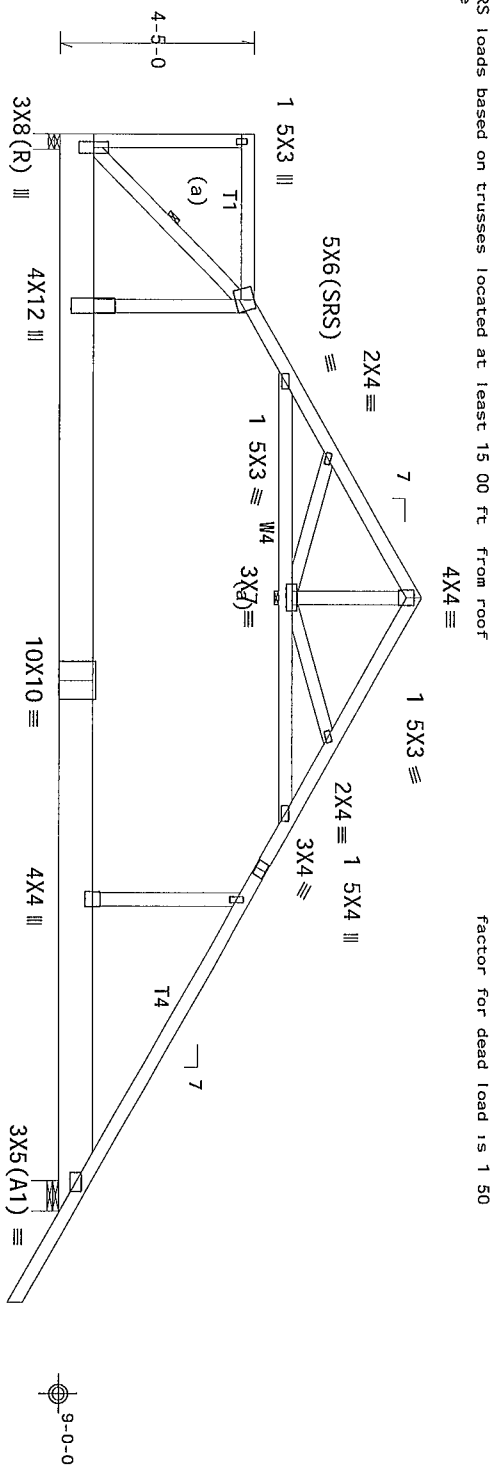
Wind loads and reactions based on MMFRS with additional C&C member design

Calculated horizontal deflection is 0.10 due to live load and 0.17 due to dead load

(a) Continuous lateral restraint equally spaced on member in lieu of structural panels use purlins to brace all flat TC @ 24 OC

Collar-tie braced with continuous lateral bracing at 24' or rigid ceiling	Creep increase
Deflection meets L/240 live and L/180 total load factor for dead load is 1.50	

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



$\overbrace{3-7-7}^{\text{6-6-9}} \quad \overbrace{13-6-0}$
 $\overbrace{23-8-0}^{\text{Over 2 Supports}}$
 R=1698 U=0 W=4
 RL=93/-114
 R=1501 U=0 W=8"

Design Crit.	FBC2010Res/TP1-2007(Std)	FT/RT=10%(0%)/0(0)

$$FT/RT = 10\%(0\%) / 0(0)$$
[illegible]

QTY.1 FL/-/4/-/-/R/-

Scale = 25"/Ft.

ALPINE

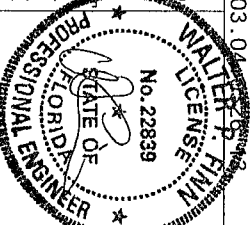
ITW Building Components Group Inc

Orlando FL, 32837
FL COA #0278

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

These rules set out the way a fabricating, handling, installing and bracing company should follow the latest edition of BS3 (Building Component Safety Information) by TPI and WTA for safety practice prior to performing these functions. Installers shall provide temporary bracing per BS3 unless noted otherwise so that chord shall have properly attached structural tension and bottom chord shall have a properly attached r and c ceiling. Load case shown for permanent lateral restraint of webs shall have bracing installed per BS3 or BS10 as applicable.

ITW Building Components Group Inc (ITWBCG) shall not be responsible for:

[illegible]

03/12/2014

TC LL	20.0 PSF	REF	R9114- 22067
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071007
BC LL	0 0 PSF	HC-ENG	JB/W/PF
TOT LD	37 0 PSF	SEQN-	341909
DUR. FAC.	1.25		
SPACING	24 0"	JREF -	1V4M487_Z01

(14-036--Fill in later /Boardman Residence -- Lake City, FL - A8 23 8" Common)

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

Top chord 2x4 SP 2850F-2 3E T4 2x4 SP M-30
Bot chord 2x10 SP 2400F-2 0E B2 2x10 SP SS-13B
Webs 2x4 SP #3-13B W6 2x4 SP #1-13B
Lumber grades designated with 13B use design values approved
1/30/2013 by ALSC

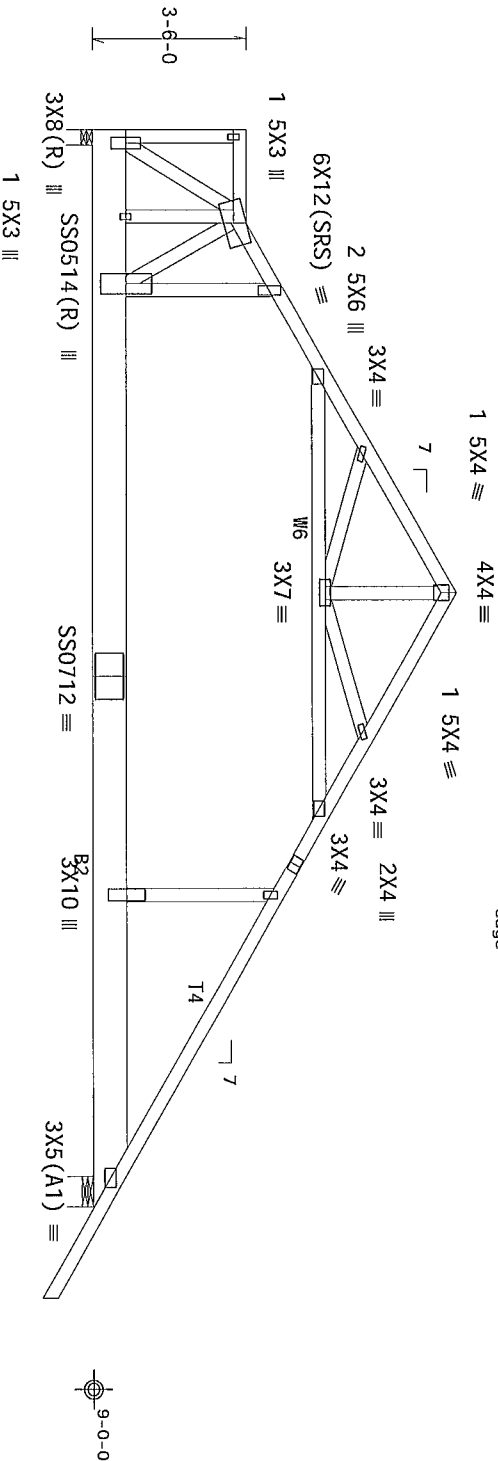
Left end vertical not exposed to wind pressure

Max JT VERT DEFL LL 0 35 DL 0 46 See detail DEFLCAMB0813 for
camber recommendations Roofs incorporating this truss require
consideration for ponding design by Building Designer

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

Collar-tie braced with continuous lateral bracing at 24 0C or rigid
ceiling

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 MWFRS with additional C&C member
design
Calculated horizontal deflection is 0 15 due to live load and 0 22
due to dead load
In lieu of structural panels use purlins to brace all flat TC @ 24
0C
BC attic room floor loading LL = 40 00 psf DL = 10 00 psf from
3-8-0 to 16-8-0
Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1 50
MWFRS loads based on trusses located at least 15 00 ft from roof
edge



2-0-9 8-1-7 23-8-0 Over 2 Supports 13-6-0 2-0-0 9-0-0
R=1875 U=0 W=4
RL=103/-117
R=1785 U=0 W=8'

PLT TYP 18 Gauge HS, Wave

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

12 03 04 2014

QTY. 1 FL/-/4/-/-/R/-

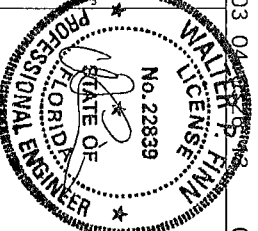
Scale = .25"/Ft



ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0 278

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 and bracing Refer to and
follow the latest edition of BCSI (Building Component Safety) Information by TPI and WDA for safety
and handling instructions. Trusses are designed for specific conditions and loads. Do not
modify or alter in any way without the approval of the Designer. Trusses are not to be
used for any other purpose than intended. Trusses are not to be used for any other purpose
than intended. Trusses are not to be used for any other purpose than intended. Trusses are
not to be used for any other purpose than intended. Trusses are not to be used for any other
purpose than intended. Trusses are not to be used for any other purpose than intended. Trusses
are not to be used for any other purpose than intended. Trusses are not to be used for any
other purpose than intended. Trusses are not to be used for any other purpose than intended.
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 and installation
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 1604-2 for standard plate positions. A seal on the
drawing or cover page reflecting this drawing indicates acceptance of professional engineering
drawing and construction of the truss. The Designer shall not be responsible for any deviation
from this design or for any failure to build the truss in conformance with ANSI/TPI 1. For more
information see the Building Designer per ANSI/TPI 1 Sec 2. For more information see
the general notes page ITW BCG www.itwbcg.com TPI www.tpi.net org WDA www.abctindustry.com
ICC www.iccsafe.org



TC LL	20 0 PSF	REF R9114- 22068
TC DL	7 0 PSF	DATE 03/12/14
BC DL	10 0 PSF	DRW HCUR9114 14071008
BC LL	0 0 PSF	HC-ENG JB/WPF
TOT. LD	37 0 PSF	SEQN- 341886
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

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

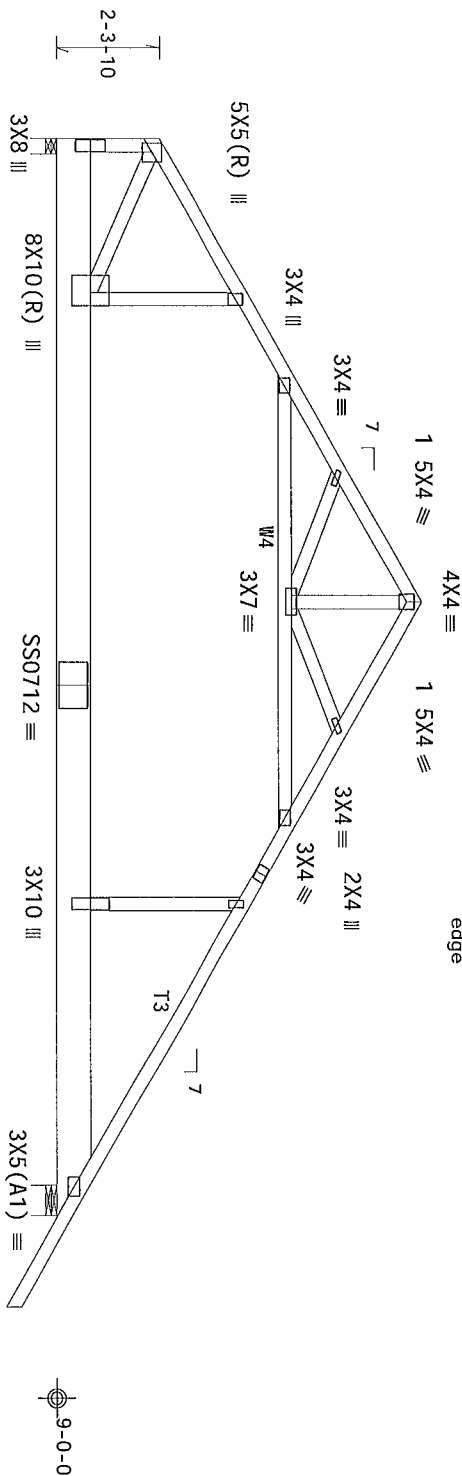
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI (+/-)=0 18

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

Calculated horizontal deflection is 0.17" due to live load and 0.24" due to dead load

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

3-8-0 to 16-8-0



10-2-0 13-6-0

23-8-0 Over 2 Supports

R=1875 U=0 W=4
RL=116/-121

R=1785 U=0 W=8

Design Crit	FBC2010Res/TP1-2007(STD) FT/RT=10%(0%)/0(0)
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QTY 3 FL/-/4/-/-/R/-

Scale = .25"/Ft.

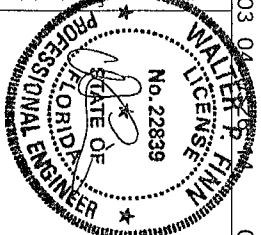
ITW Building Components Group Inc
Orlando FL, 32837
FL COA #0 278

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

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trussers require extreme care in fabricating, handling, installing and bracing. Refer to and follow the latest edition of BCS1 (Building Component Safety Information by TPI and WCA) for safety.

practices, or to performing these functions, installers shall provide temporary bracing per BCS1. 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 BCS1 sections B3, B7 or B10 as applicable.

[illegible]

FL/-/4/-/-/R/-		Scale = .25"/Ft.
TC LL	20 0 PSF	REF R9114- 22069
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCUR9114 14071009
BC LL	0.0 PSF	HC-ENG JB/MPF
TOT.LD	37.0 PSF	SEQN- 23136
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

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

Webbs LX4 SP #3-13B Web LX4 SP #2-13B

1/30/2013 by AL3C

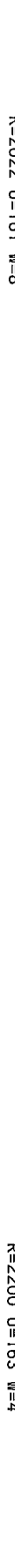
Willid bc DE=3 0 psi GCP1 (+/-)=0 10

Wind loads and reactions based on MWFA-3

00

BOCCOLI CINESE 101 10 00 PSI 11011 COLICAI 1 C11C 1 1 VC 1000

factor for dead load is 1.50



PLI I/P Wave	F-I/R=10%(0%)/0(0)
0.00	0.00
0.01	0.01
0.02	0.02
0.03	0.03
0.04	0.04
0.05	0.05
0.06	0.06
0.07	0.07
0.08	0.08
0.09	0.09
0.10	0.10
0.11	0.11
0.12	0.12
0.13	0.13
0.14	0.14
0.15	0.15
0.16	0.16
0.17	0.17
0.18	0.18
0.19	0.19
0.20	0.20
0.21	0.21
0.22	0.22
0.23	0.23
0.24	0.24
0.25	0.25
0.26	0.26
0.27	0.27
0.28	0.28
0.29	0.29
0.30	0.30
0.31	0.31
0.32	0.32
0.33	0.33
0.34	0.34
0.35	0.35
0.36	0.36
0.37	0.37
0.38	0.38
0.39	0.39
0.40	0.40
0.41	0.41
0.42	0.42
0.43	0.43
0.44	0.44
0.45	0.45
0.46	0.46
0.47	0.47
0.48	0.48
0.49	0.49
0.50	0.50
0.51	0.51
0.52	0.52
0.53	0.53
0.54	0.54
0.55	0.55
0.56	0.56
0.57	0.57
0.58	0.58
0.59	0.59
0.60	0.60
0.61	0.61
0.62	0.62
0.63	0.63
0.64	0.64
0.65	0.65
0.66	0.66
0.67	0.67
0.68	0.68
0.69	0.69
0.70	0.70
0.71	0.71
0.72	0.72
0.73	0.73
0.74	0.74
0.75	0.75
0.76	0.76
0.77	0.77
0.78	0.78
0.79	0.79
0.80	0.80
0.81	0.81
0.82	0.82
0.83	0.83
0.84	0.84
0.85	0.85
0.86	0.86
0.87	0.87
0.88	0.88
0.89	0.89
0.90	0.90
0.91	0.91
0.92	0.92
0.93	0.93
0.94	0.94
0.95	0.95
0.96	0.96
0.97	0.97
0.98	0.98
0.99	0.99
1.00	1.00

12 03 04 0326 14

FL--/4/--/R/

Scale = .3125"/Ft.

ALT LINE

ITT Building Components Group Inc.

FL COA #0 278

ICC www.ccsafo.org

1990

SPACING	24.0"	JREF-1V4M487 Z01
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03/12/2014

(14-036--Fill in later /Boardman Residence -- Lake City, FL - B1 27 Common)

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

Left cantilever is exposed to wind

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

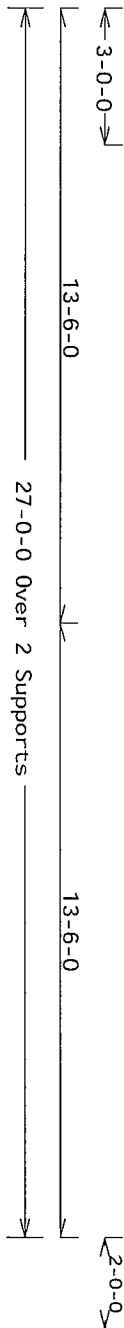
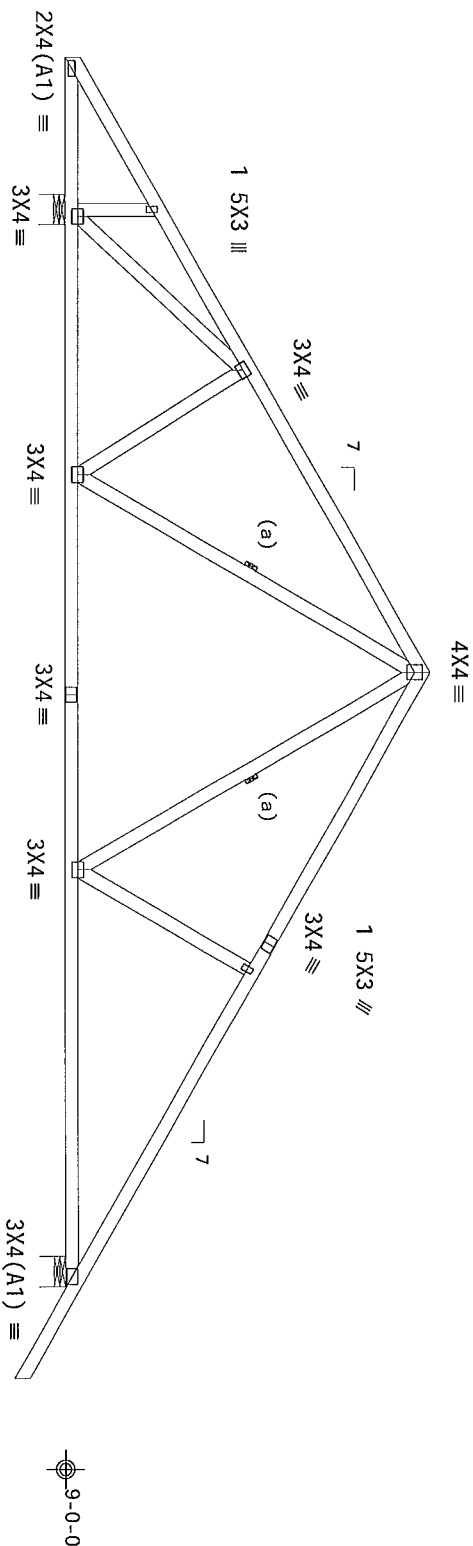
MMFRS loads based on trusses located at least 30 00 ft from roof
edge

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 GCPI(+/-)=0 18

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

(a) Continuous lateral restraint equally spaced on member

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



R=1170 U=0 W=8
RL=138/-129

R=1020 U=0 W=8

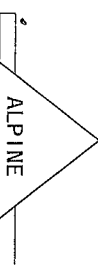
PLT TYP Wave

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

12 03 04 0326 13

QTY 1 FL/-/4/-/-/R/-

Scale = .25"/Ft.

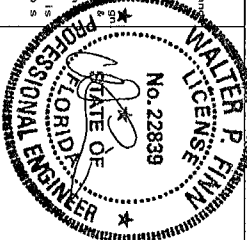


ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Refer to the
manufacturer's instructions for details. The manufacturer shall provide temporary bracing per BSI
practices prior to or during erection. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord
shall have a properly attached rigid ceiling. Locate on shown for permanent lateral restraint of web.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design
any failure to build the truss in accordance with ANSI/TP1 1 or for handling, shipping, installing, or
bracing of trusses. Apply plates to each face of truss and post on as shown above and on the joint
between members. Unless noted otherwise, before drawing, BSI shall be consulted for standard practices.
The manufacturer shall be responsible for the design of the truss and for the use of this design for any structure
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information on see the job's
general notes page ITW-BCG www.itwbcg.com TP1 www.tp1inc.org WTCA www.sbcindustry.com
ITC www.lcsafe.org



03/12/2014

TC LL	20.0 PSF	REF R9114- 22071
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCSR9114 14071010
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT. LD.	37.0 PSF	SEQN- 342027
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

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

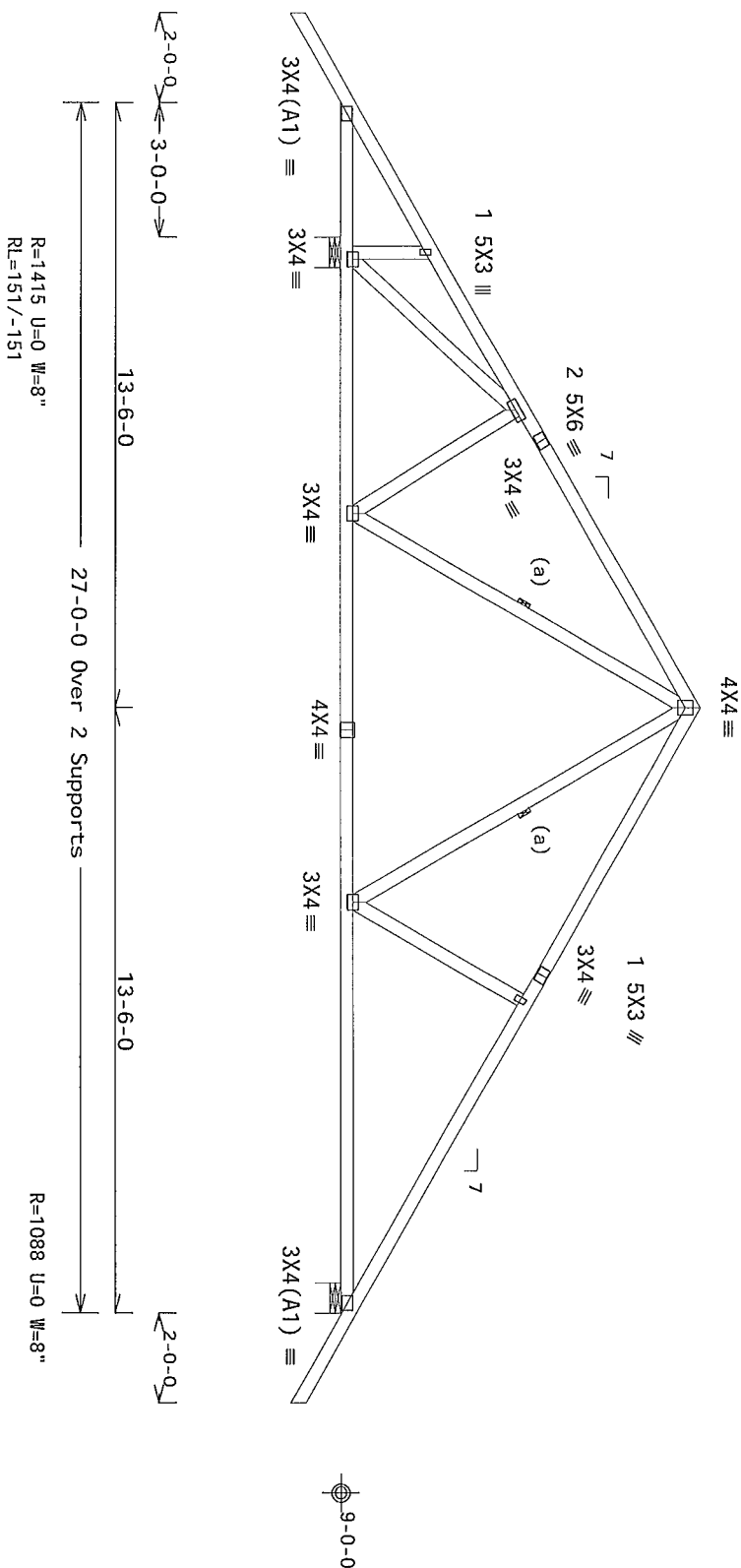
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bidg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI(+/-)=0 18

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

(a) Continuous lateral restraint equally spaced on member

Deflection mode	1/240	live	and	1/180	total	load	Green increase
Bottom chord checked for	10	00	psf	non-concurrent	live	load	

factor for dead load is 1.50




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

12.03.04 0326 13

QTY:11 FL/-/4/-/-/R/-

Scale = .25"/Ft.



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

****IMPORTANT**** 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 WITCA for safety information on the performance of these trusses. For more information, call 1-800-368-7623.

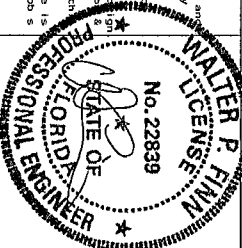
shall have a properly attached rigid ceiling. Local ones shown for permanent lateral restraint of webs shall have bracing installed per BCS sections B3, B7 or B10 as applicable.

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this document or any failure to build the truss in conformance with ANSI/APA 1 or for handling shipping installation

Drawing or cover page listing drawings and codes acceptance of professional engineering details unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the face of trusses Apply plates to each face of truss and posit on as shown above and on the joint bracing of trusses

responsibility solely for the design shown. The suitability and use of this design for any structural application is the responsibility of the Building Designer per ANSI/TPI-1 Sec 2. For more information see Tn's www.italtub.com. Additional notes page 17M RGG

www.icsafe.org



TC LL	20.0 PSF	REF R9114- 22072
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCUR9114 14071011
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT LD	37.0 PSF	SEQN- 342023
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

(14-036--Fill in later /Boardman Residence -- Lake City, FL - C1 29'8"12 Common)

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

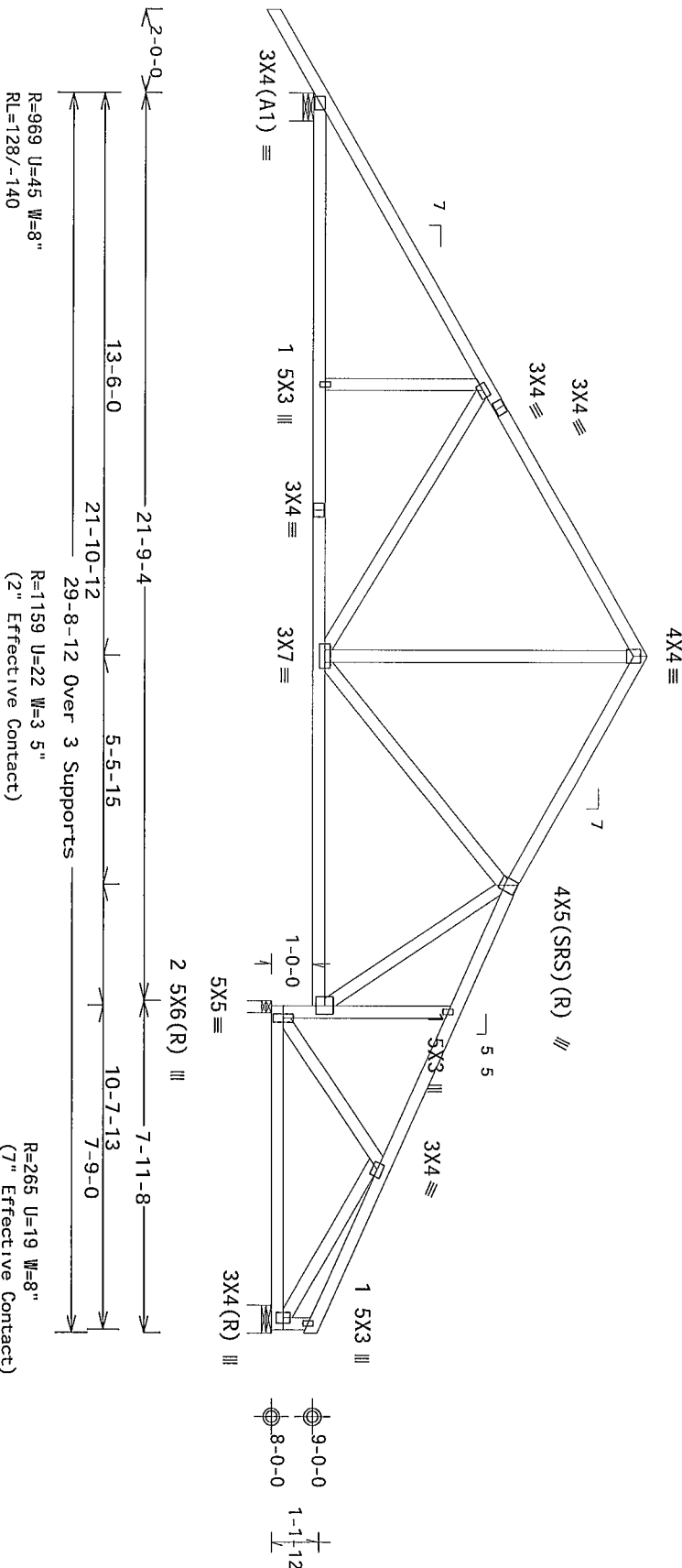
Lumber grades designated with "13B" use design values approved
1/30/2013 by ALSC

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

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 4 50 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



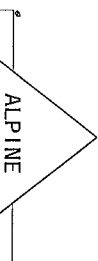
PLT TYP Wave

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

12.03.04 0326.13

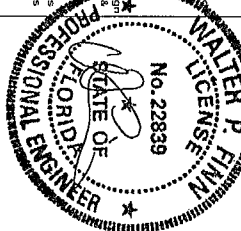
QTY:2 FL/-/4/-/R/-

Scale = .25"/Ft.



FTW 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 and 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 web shall have bracing installed per BCSI sections B3 B7 or B10 as applicable.
FTW Building Components Group Inc. (FTWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in accordance with ANSI/TPI 1 or for handling, shipping, installing, or bracing the truss shall be the responsibility of the contractor. Refer to drawing 180A-2 for standard plate bolt and gusset on the drawing or cover page listing 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 This Job's general notes page. FTW-BCSI www.bcsi.org TPI www.tpi.net.org WTC www.abcrindustry.com



TC LL	20.0 PSF	REF	R9114- 22073
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCSR9114 14071012
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD	37.0 PSF	SEON-	342003
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

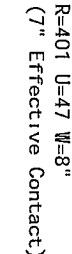
03/12/2014


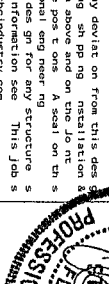
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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 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



PLT	TYPE	Wave	Design	Cr. it - FBC2010Res/TP1 -2007 (STD)	12.03.04	QTY: 3	FL/-/4/-/-/R/-	Scale = .1875"/Ft.
			<p>Design Cr. it - FBC2010Res/TP1 -2007 (STD)</p> <p>FT/RT=10%(0%/0/0)</p>			<p>12.03.04</p>		
<p>ITW Building Components Group Inc.</p> <p>Orlando FL 32837</p> <p>FL COA #0278</p>			<p>**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET</p> <p>**IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS</p> <p>Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the instructions on the truss manufacturer's literature, including the bracing and erection practices prior to performing these functions. Installers shall be responsible for the proper bracing. 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 BC51 sections B3, B7 or B10, as applicable.</p> <p>ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any device or 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 details, unless noted otherwise. Refer to drawings 180A-Z for standard plate positions. Seal on this drawing or cover page indicating 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/TP1-1 Sec 2. For more information see ITWBCG's general notes page ITW-500. www.itwbcg.com www.abctindustry.com www.abctindustry.com</p>			<p>12.03.04</p>		
			<p>03/12/2014</p>			<p>QTY: 3</p>		
<p>SPACING</p> <p>24 0"</p>			<p>JREF - 1V4M487_Z01</p>			<p>Scale = .1875"/Ft.</p>		
<p>DUR. FAC.</p> <p>1.25</p>			<p>SEQN-</p> <p>341987</p>			<p>DATE</p> <p>03/12/14</p>		
<p>TOT. LD.</p> <p>37.0 PSF</p>			<p>HC-ENG JB/WMP</p>			<p>REF R9114 - 22074</p>		
<p>BC LL</p> <p>0.0 PSF</p>			<p>DRW HCSR9114 14071013</p>			<p>TC DL</p> <p>20.0 PSF</p>		
<p>BC DL</p> <p>10.0 PSF</p>			<p>DATE</p> <p>03/12/14</p>			<p>TC DL</p> <p>7.0 PSF</p>		

(14-036--Fill in later /Boardman Residence -- Lake City, FL - CJ1 1 Jack)

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

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

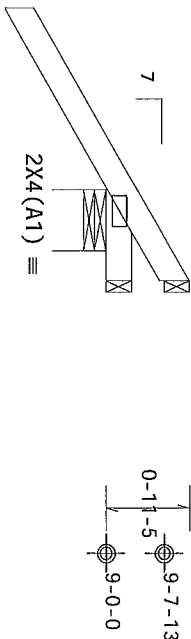
Bottom chord checked for 10 00 psf non-concurrent live load

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 GCPI(+/-)=0 18

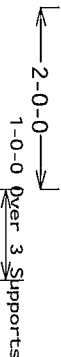
Wind loads and reactions based on MWFRS with additional C&C member
design

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

R=-102 Rw=31 U=70



R=2 Rw=15 U=19



R=329 U=52 W=8"
RL=28/-24

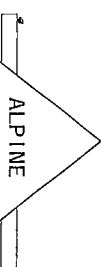
PLT TYP. Wave

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

12.03.00

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

Scale =.5"/Ft.



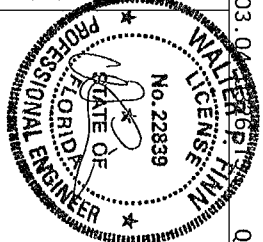
ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0 278

IMPORTANT READ AND FOLLOW ALL NOTES ON THIS SHEET

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, unloading and bracing. Refer to and follow the latest edition of BCSI (Building Component Suppliers Institute) Manual on Truss TP1 and WTC1 for safety practices and procedures. Truss 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 r/d celling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI section 83 87 or 810 as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or construction of the truss system. The truss system shall be installed in accordance with the design and construction details shown on this drawing or cover page. 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 the response bill by of the Building Designer per ANSI/TP1 1 Sec 2. This job is general notes page ITW-BCG www.itwbcg.com TP1 www.trussinfo.org WTC1 www.abcdindustry.com ICC www.ccsa.org



03/12/2014

TC LL	20.0 PSF	REF R9114- 22075
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCUR9114 14071014
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT. LD.	37.0 PSF	SEQN- 342522
DUR. FAC	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

(14-036--fill in later /Boardman Residence -- Lake City, FL - CJ1A 1 Jack)

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

Top chord 2x4 SP #1-138
Bot chord 2x4 SP #1-138

Lumber grades designated with '138' use design values approved
1/30/2013 by ALSC

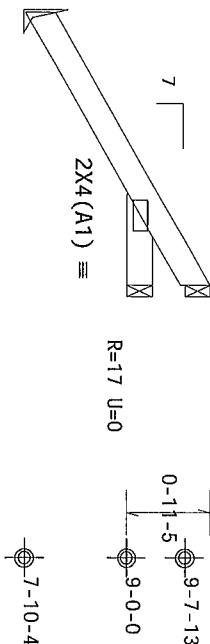
Bottom chord checked for 10 00 psf non-concurrent live load

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 GCPI(+/-)=0 18

Wind loads and reactions based on MWFRS 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=106 U=14



3-0-0 Over 3 Supports

R=114 U=0

RL=33

H=H1

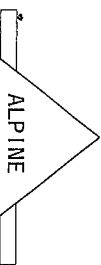
Design Crit. FBC2010Res/TP1-2007 (STD)

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

12 03 00 PM

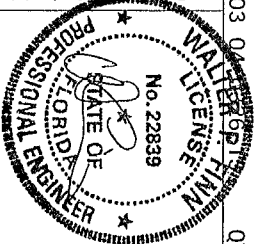
QTY: 2 FL/-/4/-/-/R/-

Scale = .5"/Ft.



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 CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Informant on by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI unless noted otherwise. The top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, bracing, or any other actions taken by the contractor. Refer to drawings 1604.2 for standard brace points. A seal on this drawing or cover page listing this drawing and dates acceptance of professional engineering and the responsible party of the building design shown. The seal shall be used only for any structure is the general notes page ITW-BCSI www.itwbcg.com TPI www.tpiinc.org WTC www.structure.com Th's jobs



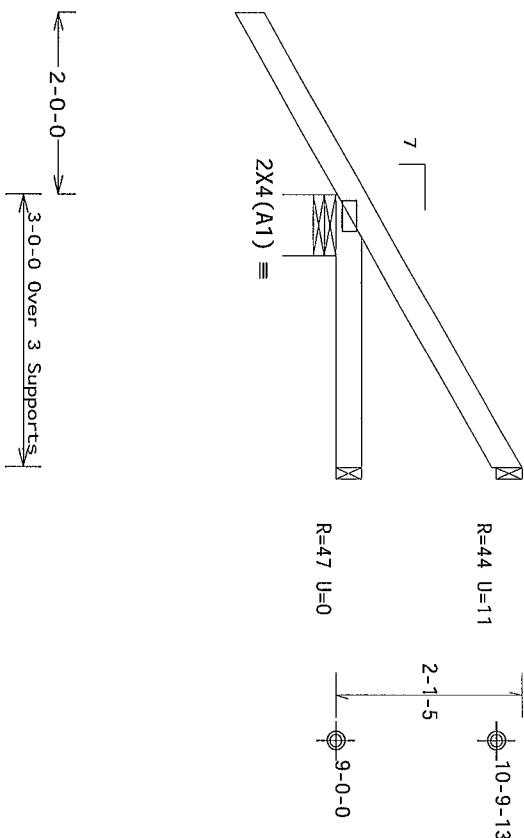
TC LL	20.0 PSF	REF	R9114- 22076
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HOURS9114 14071015
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	37.0 PSF	SEQN-	342668
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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, Located anywhere in roof, 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 increase factor for dead load is 1.50



R=291 U=20 W=8
RL=48/-28

PLT TYP Wave

Design Crit	FBC2010Res/TP1-2007(STD) FT/RT=10%(0%)/0(0)
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12.03 04 336 13

QTY.5 FL/-/4/-/-/R/-

Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

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

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Tenders requires items are in fabricating, handling, installing and bracing. Refer to and follow the latest edition of BCSI (Building Components Safety Information) on TPI and WTDs. 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 members and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections 83, 87 or 810 as applicable.

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fely
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ord
webs

17W-BG id ng Components Design Inc. (ITWBCG) shall not be responsible for any delay on from this date
any failure to build this Trusts in conformance with the ANSI/TPI 1 or for hand ng slip ng sealant on a
bracing of trusses. Applied plates to each face of trusses and position as shown above and on the Joist
bracing of trusses. Model overhead. Refer to drawings 180A-2 for standard plate positions. A seal on the
trusses shall be applied to the top of the trusses. The suitability and use of the seal on for this structure
responsibility solely for the design shown. The suitability and use of the seal on for this structure
responsibility solely for the design shown. per ANSI/TPI 1 Sec 2. For more information see This job
general notes page 17W-BG www.itwbcg.com TPI www.tpinet.org WTCA www.sbc-industry.com
www.ccsaite.org

the job structure

03/12/2014

SPACING

24.0...

JKRF- 1V4M48/_201

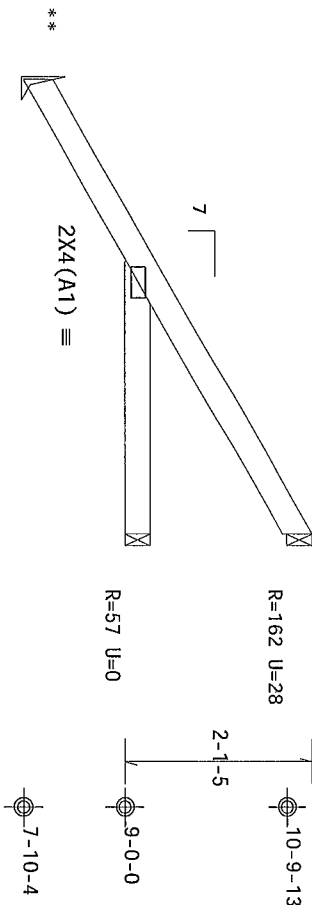
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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, $\rho = 0 0023$ slugs/ft³, $\mu = 0 18$

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

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

factor for dead load is 1.50



5-0-0 Over 3 Supports

R=191 U=0
 RL=52
 H=H1

PLT TYP	Wave	FT/RT=10%(0%)/0(0)

12.03 04 456513 QTY 1 FL/-/4/-/-/R/- Scale = .5"/Ft.



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

**** IMPORTANT ****

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating, handling, shipping 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. Installers shall provide temporary bracing per BCSI

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/APA 1 or for handling, supporting, installing, or erecting the truss. Apply plates to each face of truss and position as shown above and on the Joist bracing of trusses.

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: This job is

general notes page ITW-BGC www.itwbcg.com TPI www.tpi.nst.org WTCA www.sbcindustry.com

licc www.liccsafe.org

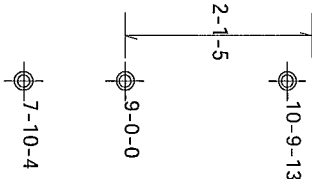
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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, $\rho = 0 0023$ slugs/ft³, $\mu = 0 18$

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

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

factor for dead load is 1.50



12.03 04 456513 QTY 1 FL/-/4/-/-/R/- Scale = .5"/Ft.

03 04 1961
Q
WALTER P. HINN
LICENSE
No. 22839
STATE OF
MISSISSIPPI

03/12/2014

FL/-4/-/-R/-		Scale = .5"/ft.
TC LL	20.0 PSF	REF R9114- 22078
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCUSR9114 14071017
BC LL	0 0 PSF	HC-ENG JB/MPP
TOT.LD.	37.0 PSF	SEON- 342672
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1VAM487_Z01

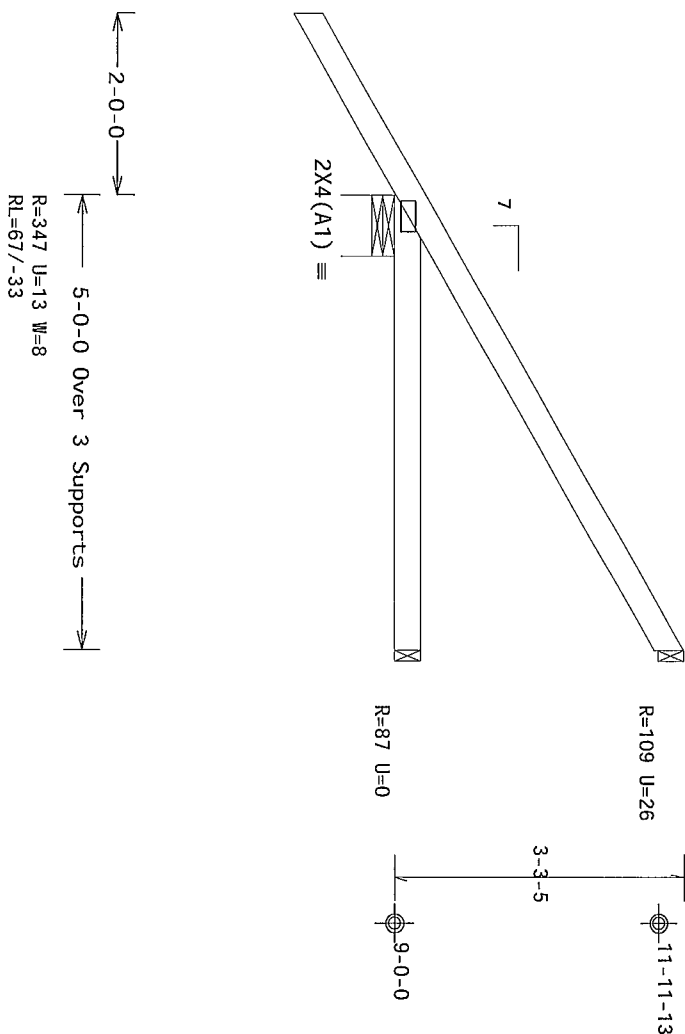
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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 GCp1(+/-)=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



Design Crit.	FBC2010Res/TP1-2007(STD), FT/RT=10%(0%)/0(0)
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QTY:5 FL/-/4/-/-/R/-

Scale = .5"/Ft.



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

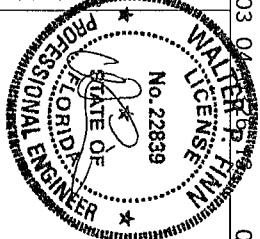
****IMPORTANT**** ****UNUSUAL THIS DESIGN TO ALL CONTRACTORS, INCLUDING INSTALLERS**

Trussers require extreme care in fabricating handling, sh, in pg installing and brng ng Refer to and follow the latest edition of BCSI (Building Component Safety Information on by TPI and WTCO) for safety practice des, pr or to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses notched otherwise, as shown shall have properly attached structural sheath ng and bottom chord shall have brng ng installed per BCSI sections 83, 87 or 810 as noted on cable.

17W-B04 ng Building Components Group (ITMBOS) shall not be reason: B04 for any other action from this des, pr. Failure to build the truss in conformance with the ANSI/TPI 1 or for hand ng, sh, in pg results on a bracing of trusses. Apply plates to each face of truss and post on as shown above and on the Jo nt. Details: trusses notched otherwise. Refer to drawings B04-2 for standard plate pos, tions. A seal on the bottom chord shall be installed per ANSI/TPI 1 Sec 2. The suitability and use of the above information for any other reason is left solely for the des, pr on shown. The suitability and use of the above information for any other reason is left solely for the des, pr on shown. per ANSI/TPI 1 Sec 2. For more information see This job s

general notes page 17W-B03 www.tbccog.com TPI www.tpinet.org WTCO www.sbcindustry.com

OC www.sbcinfo.org



TC LL	20 0 PSF	REF	R9114- 22079
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCSR9114 14071018
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT. LD.	37.0 PSF	SEQN-	342528
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

Negative reaction(s) of -468# MAX (See below) from a non-wind load

Negative reaction(s) of -468# MAX (See below) from a non-wind load case requires uplift connection

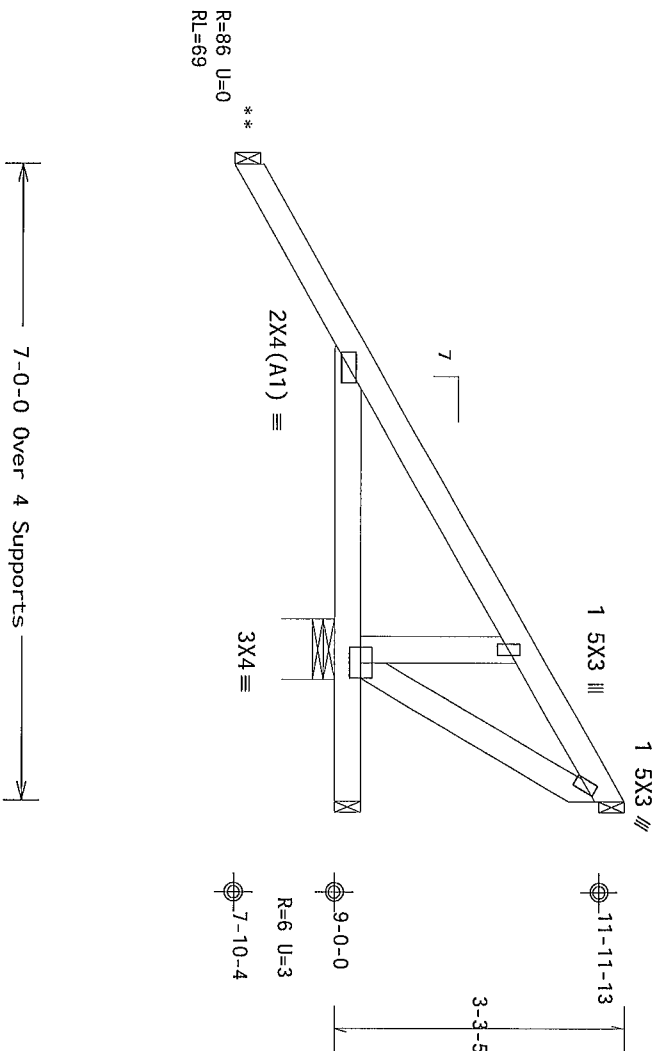
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4 50 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpl(+/-)=0 18

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

des ign

Shim all supports to solid bearing

R=-468 RW=50 U=267



Design Crit.: FBC2010Res/TP1-2007(STD)

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

13 02.07

QTY:1 FL/-/4/-/-/R/-

Scale = .5"/Ft.

ALPINE

ITV Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

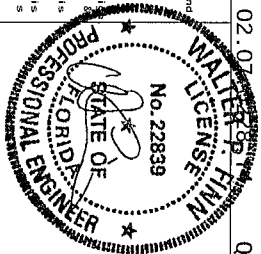
*******IMPORTANT***** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Tenuses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest ed of IBCS (Building Components Safety Information) from TPI and WTCO for safety practice prior to performing these functions. Installers shall provi as temporary bracing per IBCS. Tenuses noted otherwise as top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per IBCS sections B3, B7 or B10. (See details)

17W-Bldg ng Components Group Inc. (17WBCG) shall be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping and bracing of trusses. Apply criteria to each face of truss and post it on as shown above and on the Jointed Deck is unless noted otherwise. Refer to draw ngs 17W-BD-2 for standard plate positions. A seal on this drawing or cover page listing the drawing ng and dates acquisition of Professional Engineering and the responsibility of the Building Designer per ANSI/ASCE 1-1 Sec 2. For more information on this subject, please refer to the following:

general notes page 17W-BGC www.17wbcg.com TPI www.tpiinc.org WTCO www.wtcobuilding.com

CC info@17wbcg.com



03/12/2014

TC LL	20.0 PSF	REF	R9114- 22080
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCUSR9114 14071029
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT LD	37.0 PSF	SEON-	1354 REV
DUR. FAC.	1 25		
SPACING	24.0"	JREF -	1V4M487_Z01

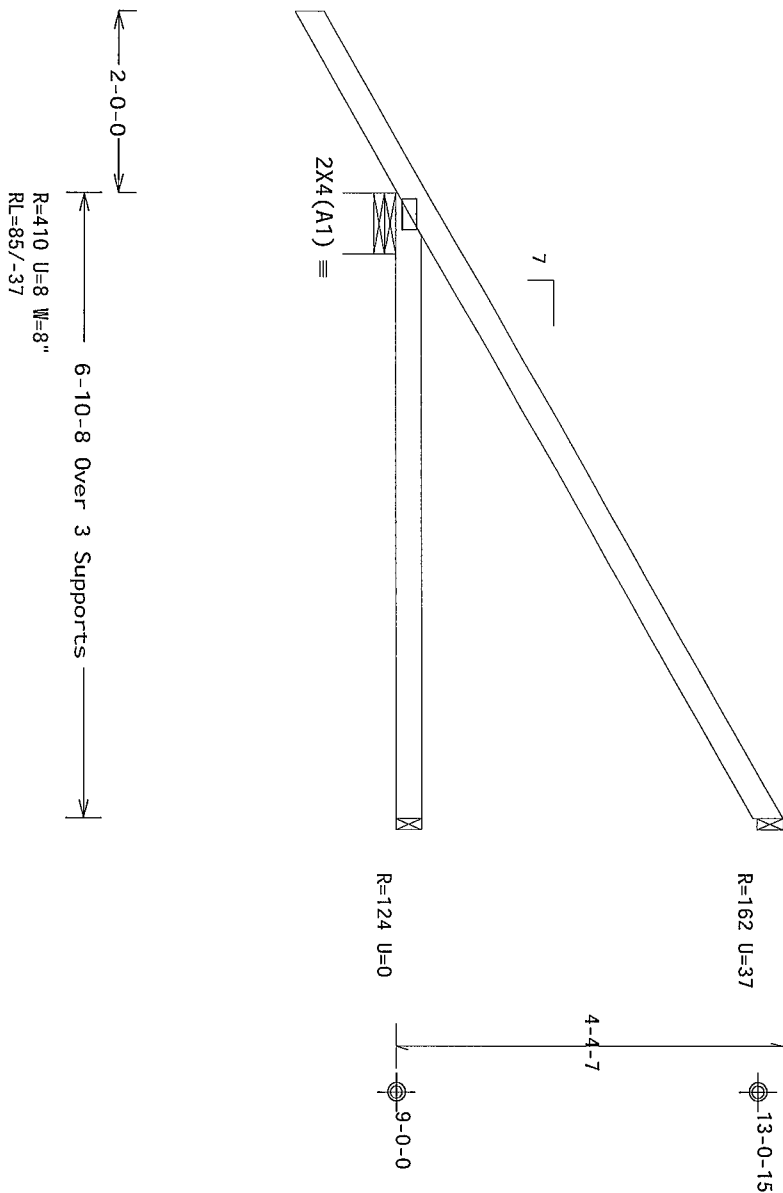
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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 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


factor for dead load is 1.50



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

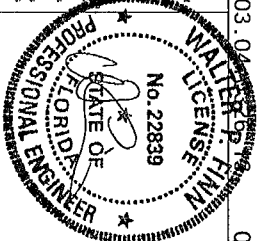
QTY: 9 FL/-/4/-/-/R/-

Scale = .5"/Ft.



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

****IMPORTANT****
****WARNING**** **READ AND FOLLOW ALL NOTES ON THIS SHEET!**
 These notes are to be read in conjunction with the drawings and specifications. All dimensions are in inches unless otherwise noted. All materials shall be of the highest quality and shall conform to the latest edition of the American Institute of Steel Construction, Inc. (AISC) Specification for Structural Steel Buildings. All welding shall be in accordance with the AWS D1.1 Structural Steel Welding Code. All fasteners shall be of the highest quality and shall conform to the latest edition of the AISC Specification for Structural Steel Buildings. All materials shall be of the highest quality and shall conform to the latest edition of the AISC Specification for Structural Steel Buildings. All welding shall be in accordance with the AWS D1.1 Structural Steel Welding Code. All fasteners shall be of the highest quality and shall conform to the latest edition of the AISC Specification for Structural Steel Buildings.



03/12/2014

TC LL	20.0 PSF	REF R9114- 22081
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCURS9114 14071019
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT LD.	37.0 PSF	SEQN- 342514
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1V4M487_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

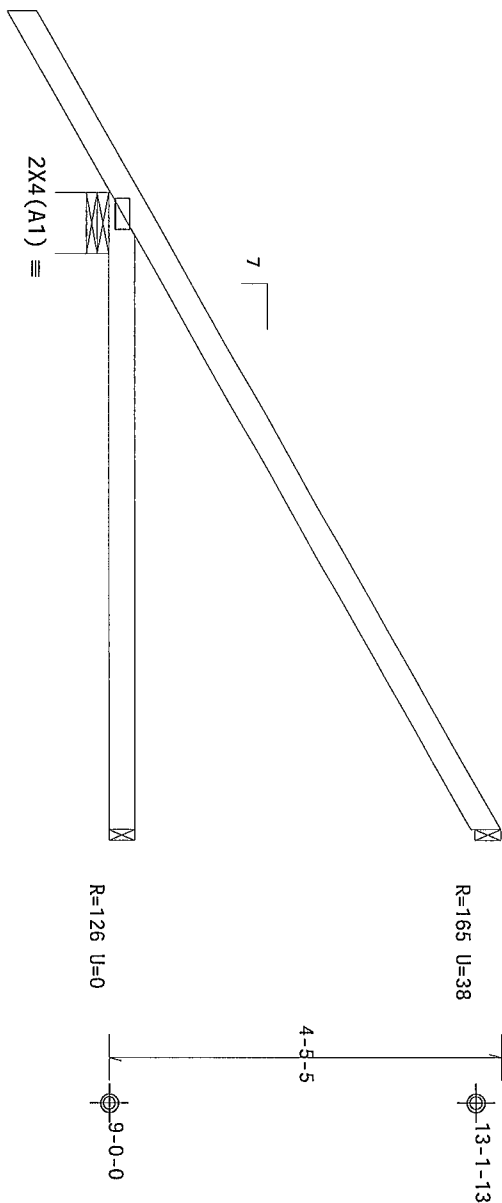
Bottom chord checked for 10 00 psf non-concurrent live load

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, Located
anywhere in roof, 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

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



R=414 U=8 W=8"
RL=86/-37

7-0-0 Over 3 Supports \longrightarrow

PLT TYP Wave

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

12 03.04 2006

QTY.8 FL/-/4/-/-/R/-

Scale = .5"/Ft.

•• IMPORTANT! ••

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLER

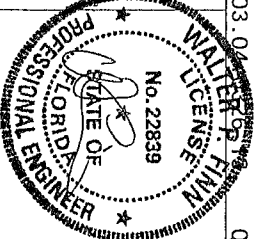
ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

These require attention in fabricating, handling, splicing, installing, and bracing. Refer to any follow the latest edition of BCSI's Building Component Safety Information by TPI and WTCA for safety practice and prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, cut chord shall have properly attached structural sheathing and bottom chord shall have a properly installed rigid collar. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sheet nos. BS 87 or B10 as applicable.

1) Building Components Group Inc. (IMBCO) shall not be responsible for any steel on or from this drawing. In order to build the truss in conformance with the ANSI/TPI 1 or for handling, an sp ng install on this drawing, unless noted otherwise. Refer to drawing 160-2 for fasteners, plates, and other details on the drawing or cover plate listing this drawing. 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 on see This job is general notes page. TPI www.tpi.net.org WTCA www.sbc-industry.com

IMBCO www.imbco.com TPI www.tpi.net.org WTCA www.sbc-industry.com



03/12/2014

TC_LL	20.0 PSF	REF	R9114 - 22082
TC_DL	7.0 PSF	DATE	03/12/14
BC_DL	10.0 PSF	DRW	HCUSR9114 14071020
BC_LL	0.0 PSF	HC-ENG	JB/MPF
TOT_LD	37.0 PSF	SEON-	342517
DUR_FAC.	1.25		
SPACING	24.0"	JREF -	1V4M487_Z01

(14-036--Fill in later /Boardman Residence -- Lake City, FL - H7 27' Steepdown Hip Girder)

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

Top chord 2x4 SP #1-13B
Bot chord 2x4 SP M-30 B2 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 450 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf,
wind BC DL=5.0 psf GCP(+/-)=0.18

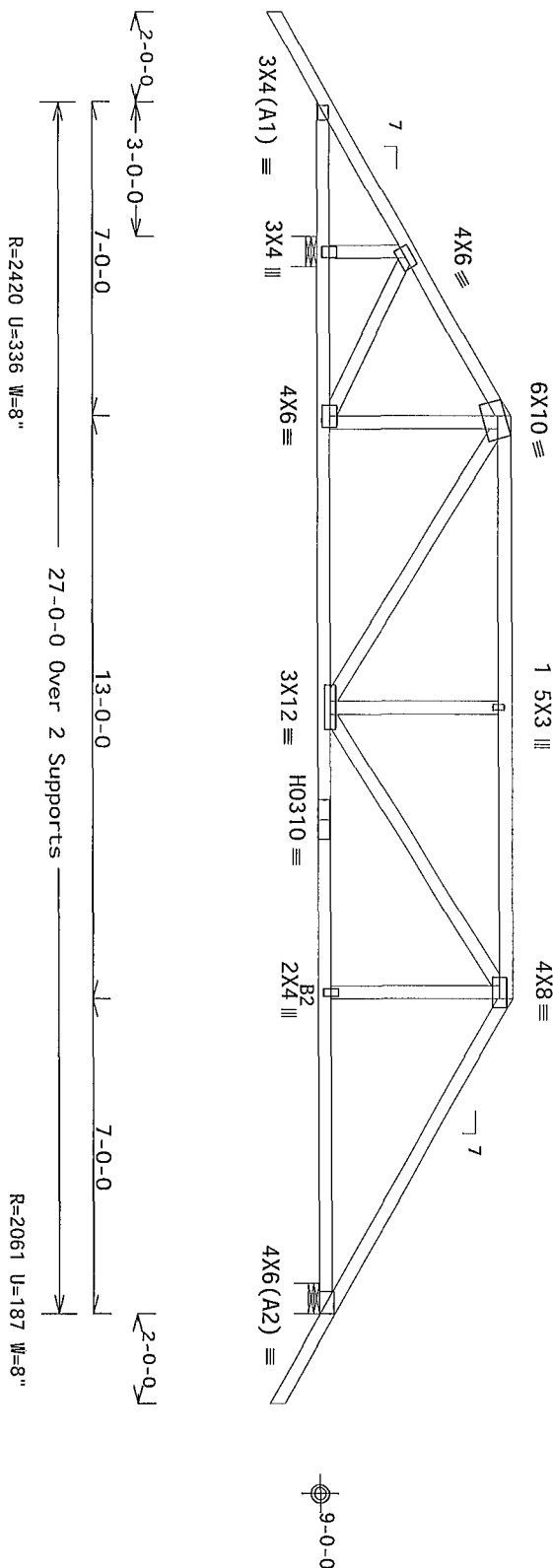
Wind loads and reactions based on MMFRS

Left cantilever is exposed to wind

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

Special loads		
-----Lumber	Dur Fac = 1.25 / Plate Dur Fac = 1.25	
TC-From	56 pif at -2.00 to 56 pif at 7.00	
TC-From	28 pif at 7.00 to 28 pif at 20.00	
TC-From	56 pif at 20.00 to 56 pif at 29.00	
BC-From	5 pif at -2.00 to 5 pif at 0.00	
BC-From	20 pif at 0.00 to 20 pif at 7.03	
BC-From	10 pif at 7.03 to 10 pif at 19.97	
BC-From	20 pif at 19.97 to 20 pif at 27.00	
BC-From	5 pif at 27.00 to 5 pif at 29.00	
TC-195.25 1b Conc	Load at 7.03	
TC-165.33 1b Conc	Load at 9.06, 11.06, 13.06, 13.94	
TC-232.75 1b Conc	Load at 19.97	
BC-55.79 1b Conc	Load at 7.03	
BC-125.99 1b Conc	Load at 9.06, 11.06, 13.06, 13.94	
15.94, 17.94		
BC-418.73 1b Conc	Load at 19.97	
Deflection meets L/240 live and L/180 total load Creep increase		
Factor for dead load is 1.50		



PLT TYP 20 Gauge HS, Wave

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

12.03 04/12/2014

QTY: 1 FL/-/4/-/-/R/-

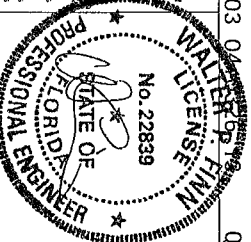
Scale = .25"/Ft

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 from the extreme care in fair cutting, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information by TP1 and WTC) for safety practices or to perform 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. Local ones shown for permanent lateral restraint of webs. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build in accordance with ANSI/TP1 or for handling, shipping, installing or bracing of trusses. Apply plates to each face of trusses and posts as shown above and on the joint on the 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 Sec 2. For more information see this job's general notes page. ITW-BCSI www.bcsinfo.com TP1 www.tp1net.org WTC www.abcindustry.com This job is ICC www.iccsafe.org



TC LL	20.0 PSF	REF R9114-22083
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCSR9114 14071025
BC LL	0.0 PSF	HC-ENG JB/MPF
TOT LD	37.0 PSF	SEQN- 342007
DUR.FAC	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

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

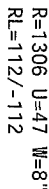
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bidg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpl(+/-)=0 18

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

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

factor for dead load is 1.50



R=1019 U=46 W=8'

12 03.04.2012

QTY 1 FL--/4/--/R/-

Scale = .25"/Ft.

ITW Building Components Group Inc.

Orlando FL, 32837
FL COA #0278

IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

SECRET

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REF K9114- 2208

TC DL	7.0
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DATE 03/12/14

BC DL 10 0 |

DRW HCUSR9114 14071

BC 11 00

HC-ENG JB/WPF

DO EL	00
TOT ID	<u>370</u>

SEON- 342533

10:50	01:00
DIB EAC	1 25

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DUR FAC. 1.23

FILED 4/17/AM 407 70

03/12/2014

SPACING 24.0"

JREF- 1V4M487_ZC

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

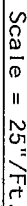
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCp1(+/-)=0 18

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

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

...

factor for dead load is 1.50

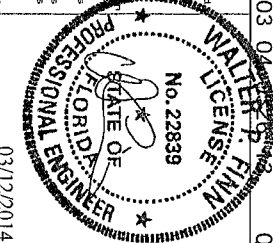


ITW Building Components Group Inc.

IMPORTANT SUBMIT THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusfuss require extensive care in fabricating and handling shipping and bracing. Refer to and follow the latest edition of BCS1 Building Component Safety Information on by TPI and WTCFA for safety practices prior to or to perform on these truss units. Installers shall provide temporary bracing per BCS1. Units are notched otherwise, not chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCS1 sections 8.87 or 8.10.

ITW Building Components Ground Inc. (ITWBCGI) shall be responsible for any and all fees to be assessed for any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping and bracing of trusses. Apply plates to each face of truss and post on as shown above and on the Joist Details unless noted otherwise. Refer to drawings 1800-2 for standard plates shown. A seal on the bracing of trusses. The suitability and use of the design shown is the responsibility of the designer. The responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information on see This Job general notes page ITW-BCGI www.itwbcgi.com TPI www.tpi.net.org WTCFA www.wtcfa.com



03/12/2014

TC LL	20.0 PSF	REF	R9114- 22085
TC DL	7 0 PSF	DATE	03/12/14
BC DL	10.0 PSF	DRW	HCSR9114 14071022
BC LL	0 0 PSF	HC-ENG	JB/MPP
TOT.LD.	37.0 PSF	SEQN-	342011
DUR FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

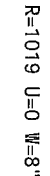
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bid, not located within 9 00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI (+/-)=0 18

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

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

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



Design Crit FBC2010Res/TP1-2007(STD)

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

12.03 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 10

QTY.1 FL/-/4/-/-/R/-

Scale = 25"/Ft.

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

Trussos require extreme care in fabricating and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information by TPI and WCA) 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 r/gid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections R3, R7 or R10 as applicable.

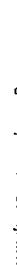
The Building Components Group Inc. (ITBGC) shall not be responsible for any deviation from the design or construction of the building components as shown on the drawings.

Apply plates to each face of truss and post on as shown above and on the joint details unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the

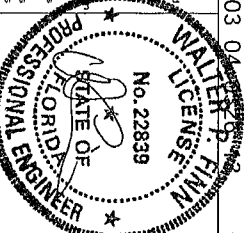
The respondents bility solely for the design shown the acceptance of professional engineer any structure is:

ANSI/TD 1 Sec 2 For more information see This link

[www.cgsato.org](#)



Orlando FL, 32837
FL COA #0278



TC LL	20.0 PSF	REF	R9114 - 22086
TC DL	7.0 PSF	DATE	03/12/14
BC DL	10 0 PSF	DRW	HCUSR9114 14071023
BC LL	0.0 PSF	HC-ENG	JB/WMPF
TOT LD	37 0 PSF	SEQN-	342019
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1V4M487_Z01

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

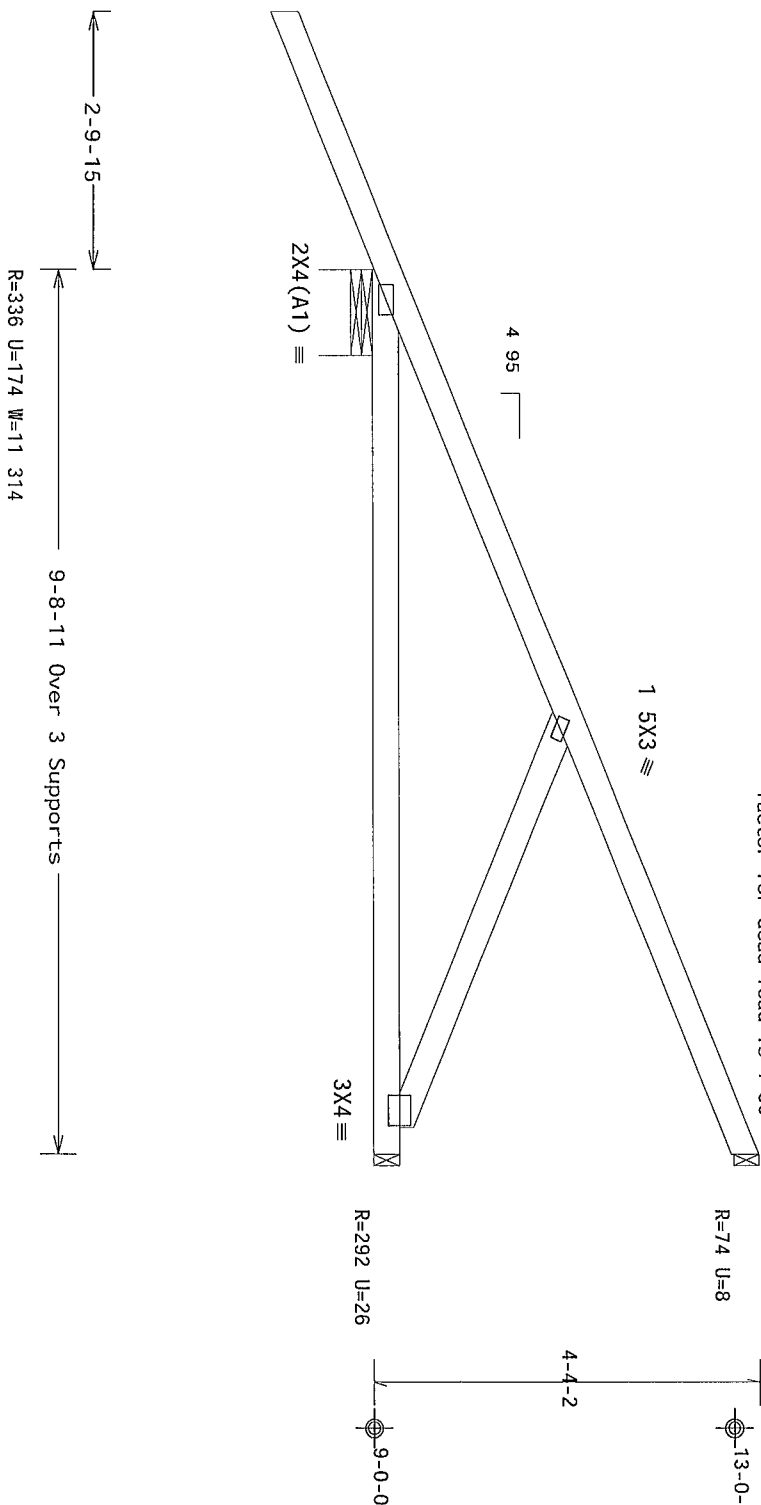
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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 6Cpi (+/-)=0 18

Wind loads and reactions based on MMFRS

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

	Special loads	
-----	(Lumber Dur Fac = 1.25 / Plate Dur Fac = 1.25)	
TC- From	0 pif at -2.83 to 55 pif at 0.00	
TC- From	2 pif at 0.00 to 2 pif at 9.72	
BC- From	0 pif at -2.83 to 4 pif at 0.00	
BC- From	2 pif at 0.00 to 2 pif at 9.72	
TC- 68 56 lb Conc Load at 1.48		
TC- 87 97 lb Conc Load at 4.31		
TC- 217 97 lb Conc Load at 7.13		
BC- 3 38 lb Conc Load at 1.48		
BC- 94 43 lb Conc Load at 4.31		
BC- 174 46 lb Conc Load at 7.13		
Deflection meets L/240 live and L/180 total load		Creep increases
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

QTY 1 FL/-/4/-/-/R/-

Scale = .5"/Ft.

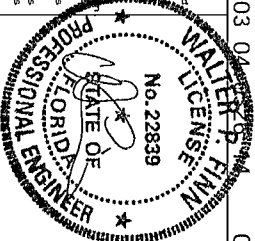
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ITV Building Components Group Inc

Orlando FL, 32837
FL COA #0278

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

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

[illegible][illegible]

03/12/2014

FL/-/4/-/-/R/-	Scale = .5"/Ft.
TC LL 20 0 PSF	REF R9114- 22087
TC DL 7 0 PSF	DATE 03/12/14
BC DL 10.0 PSF	DRW HCUSR9114 14071026
BC LL 0.0 PSF	HC-ENG JB/WPF
TOT LD. 37.0 PSF	SEQN- 23142
DUR. FAC. 1.25	
SPACING 24.0"	JREF - 1V4M487_Z01

(14-036--Fill in later /Boardman Residence -- Lake City, FL - HJ7A 9'10"13 Hip Jack Girder)

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

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

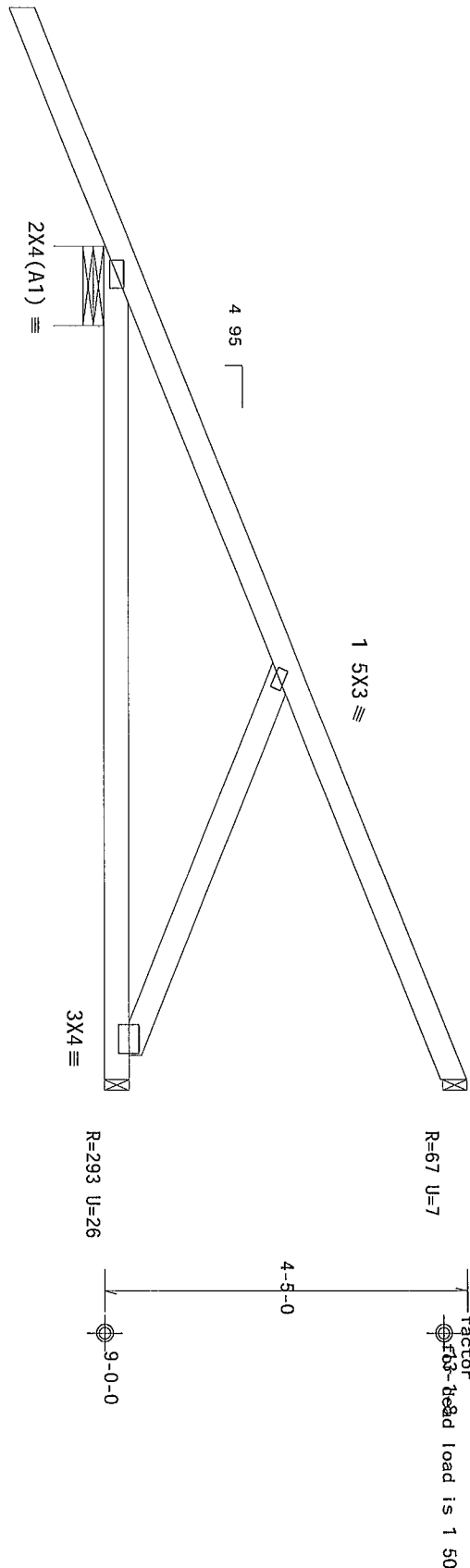
Wind loads and reactions based on MMFRS

Bottom chord checked for 10.00 psf non-concurrent live load

Special loads

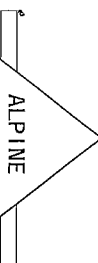
TC- From	Dur Fac =1.25 / Plate Dur Fac =1.25
TC- From	0 pif at -2.83 to 55 pif at 0.00
BC- From	2 pif at 0.00 to 2 pif at 9.90
BC- From	0 pif at -2.83 to 4 pif at 0.00
BC- From	2 pif at 0.00 to 2 pif at 9.90
TC- -68.56 lb Conc	Load at 1.48
TC- 87.97 lb Conc	Load at 4.31
TC- 217.97 lb Conc	Load at 7.13
BC- 3.38 lb Conc	Load at 1.48
BC- 94.43 lb Conc	Load at 4.31
BC- 174.46 lb Conc	Load at 7.13

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



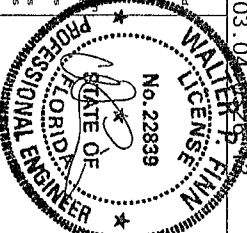
2-9-15
4-95
9-10-13 Over 3 Supports
R=341 U=175 W=11 314
R=293 U=26
9-0-0

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



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, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information on by TP1 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 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 or any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installing, or bracing of trusses. Apply plates to each face of truss and post on as shown above and on the joint. Do not use any other fasteners or materials without the written approval of ITWBCG. The designer's responsibility is to design the truss and the building designer's responsibility is to use 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 the general notes page ITW-BCG www.itwbcg.com TP1 www.tp1inc.org WTC www.abctindustry.com ICC www.iccinfo.org



QTY 1	FL/-/4/-/4/-/R/-	Scale = .5"/Ft.
TC LL	20.0 PSF	REF R9114- 22088
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCUSR9114 14071027
BC LL	0.0 PSF	HC-ENG JB/WMP
TOT. LD.	37.0 PSF	SEQN- 342556
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1V4M487_Z01

(14-036--Fill in later /Boardman Residence -- Lake City, FL - HJ7B 9 10 13 Hip Jack Girder)

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

Negative reaction(s) of -223# MAX (See below) from a non-wind load
case requires uplift connection

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

Left cantilever is exposed to wind

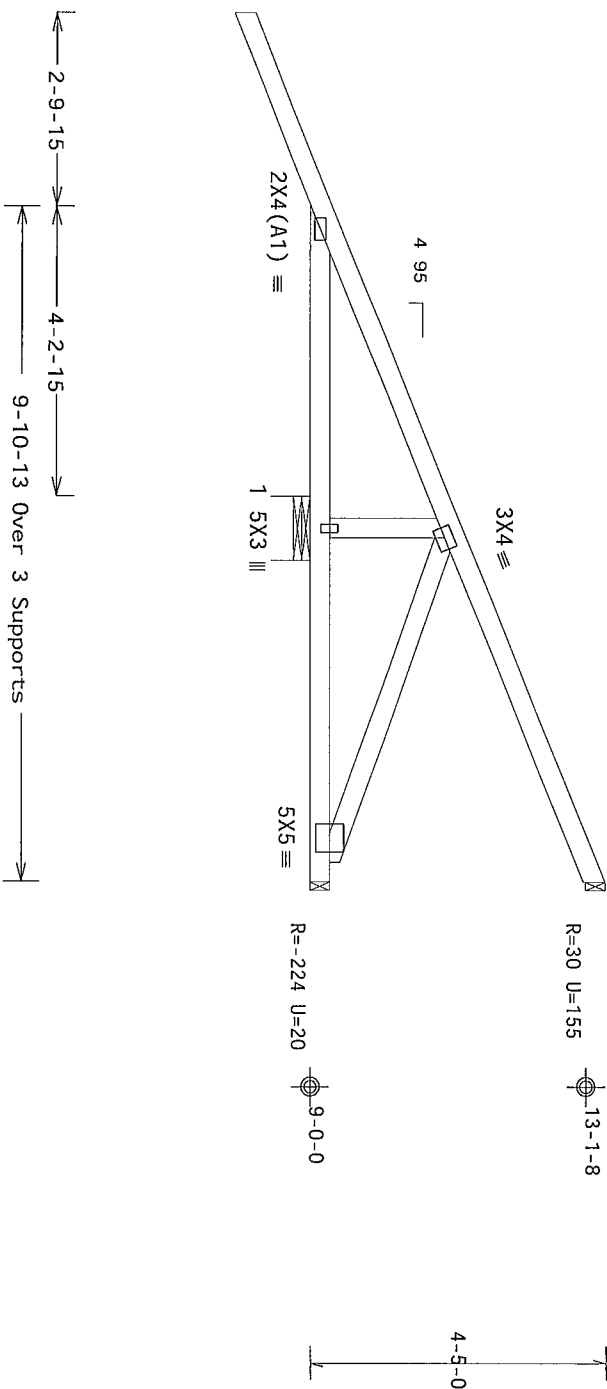
Deflection meets L/240 live and L/180 total load Creep increase
Factor for dead load is 1 50

Special loads

-----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 9 90
BC- From 0 pif at -2 83 to 4 pif at 0 00
BC- From 2 pif at 0 00 to 2 pif at 9 90
TC- 211 45 lb Conc Load at 1 48
TC- 205 92 lb Conc Load at 4 31
TC- 135 85 lb Conc Load at 7 13
BC- 34 37 lb Conc Load at 1 48
BC- 104 40 lb Conc Load at 4 31
BC- 90 73 lb Conc Load at 7 13

Wind loads and reactions based on MMFRS

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



R=924 U=317 W=11 314

PLT TYP. Wave

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

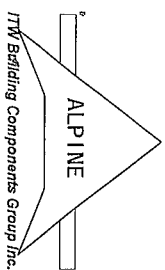
12.03 04 08 2014

QTY:1

FL/-/4/-/-/R/-

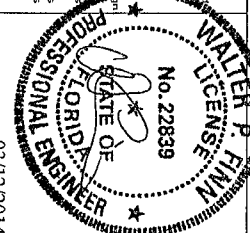
Scale =.375"/Ft.

ALPINE



Orlando FL 32837
FL COA #0 278

****IMPORTANT**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses tend to experience sagging under long shipping and handling. Refer to and follow the instructions on the BCS (Building Components System) from the factory. 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 BCS section 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, or bracing of trusses. Apply braces to each face of truss and position as shown above and on the Joint. Do not use any other bracing or blocking unless specifically noted on this drawing. The manufacturer's responsibility 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 on see this job's general notes page ITW-BCG www.itwbcg.com TP1 www.tp1inst.org WTCA www.decindustry.com ITC www.lectate.org



TC LL	20.0 PSF	REF R9114- 22089
TC DL	7.0 PSF	DATE 03/12/14
BC DL	10.0 PSF	DRW HCSR9114 14071028
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT. LD	37.0 PSF	SEQN- 23154
DUR. FAC.	1.25	
SPACING	24.0"	JREF- TV4M487_Z01

Deflection and Camber

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

Recommended Truss Deflection Limits

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

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)

Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Sloping Parallel Chord Trusses 15 x Vertical Deflection from Actual Dead Load

Floor Trusses (0.25 x Deflection from Live Load) + Actual Dead Load

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

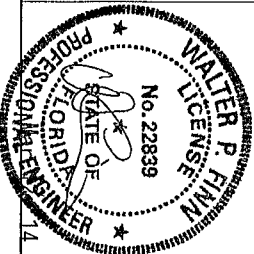


Building Components Group Inc.

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

1. Insures require proper care in fabrication, handling, shipping, installing and bracing. Refer to and follow the latest edition of ECIS (Fabricating Component Safety Information, by TPI and S&S) or safety practices prior to performing these functions. Installers shall provide temporary bracing per ECIS unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly installed rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per ECIS sections 33, 37 or 310, as applicable. Apply plates to rectify force or stress and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 150A-2 for standard plate positions.

11/4 Building Limits Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI-1 or for handling, shipping, installation or bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing or any structure is the responsibility of the Building Designer per ANSI/TPI-1 Sec2. Engineering information on this job's general notes page and these web sites: www.bldglimits.com and www.tpi.org



REF	DEFLC/CAMB
DATE	8/2/13

DATE	8/2/13
DRWG	DEFLCAMB0813

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

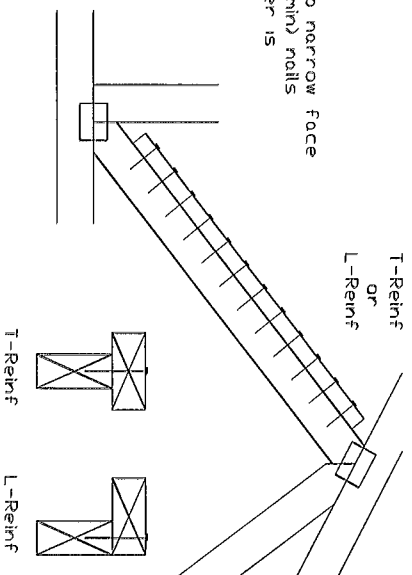
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf	Scab Reinf
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x5	1 row	2x4	1-2x6
2x5	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

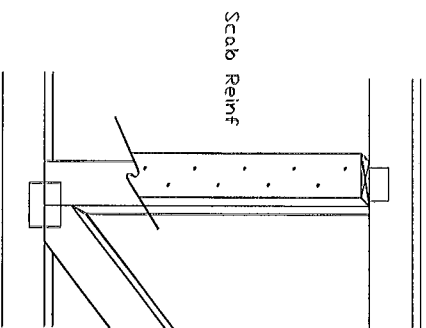
T-Reinforcement or L-Reinforcement

Apply to either side of web narrow face Attach with 10d (0128"x30"min) nails at 6" oc Reinforcing member is a minimum 80% of web member length



Scab Reinforcement

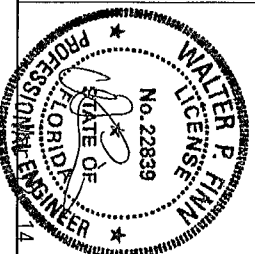
Apply (scabs) to wide face of web. No more than (1) scab per face Attach with 10d (0128"x30"min) nails at 6" oc Reinforcing member is a minimum 80% of web member length



Building Components Group Inc.

Earth City MO 63045

IMPORTANT WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING
 Trusses require extreme care in fabricating, handling, shipping, installing, and erecting. To ensure proper erection, follow the latest edition of BCSI Building Component Safety Information, by TJI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be erected on a level, firm, and stable surface. Trusses shall be braced in accordance with BCSI. Trusses shall have bracing installed per BCSI sections 52, 57 or 510, as applicable, apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Trusses shall be erected in accordance with BCSI TJI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility for the design shown. The suitability and use of this drawing for any structure shall be the responsibility of the user. For more information see the web site: www.bcsigroup.com TPI: www.tpi-inc.org SBCA: www.sbcasociety.org IWBBC: www.iwbcc.com TPI: www.tpi-inc.org SBCA: www.sbcasociety.org IWBBC: www.iwbcc.com



TC LL	PSF	REF	CLR Subst
TC DL	PSF	DATE	8/15/13
BC DL	PSF	DRWG	BRCLSUB0813
BC LL	PSF		
TOT LD	PSF		
DUR FAC			
SPACING			