

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID 1UTA215-Z0128084438

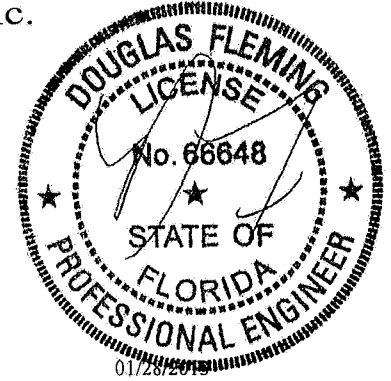
Truss Fabricator **W.B. Howland**
Job Identification **8026-/MO PERKINS /MO PERKINS -- , FL**
Truss Count **15**
Model Code **Florida Building Code 2010**
Truss Criteria **FBC2010Res/TPI-2007(STD)**
Engineering Software **Alpine Software, Version 10.03.**
Structural Engineer of Record **The identity 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 - 40.0 PSF @ 1.25 Duration**
Floor - N/A
Wind - 130 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: HCUSR215

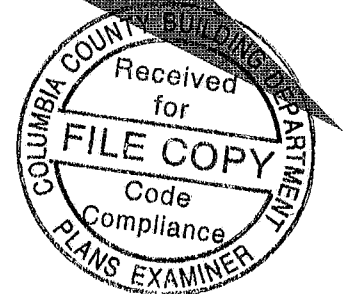
Details: -

#	Ref	Description	Drawing#	Date
1	20809--A		13028014	01/28/13
2	20810--B		13028015	01/28/13
3	20811--B1		13028001	01/28/13
4	20812--B2		13028002	01/28/13
5	20813--B3		13028003	01/28/13
6	20814--B4		13028004	01/28/13
7	20815--J		13028005	01/28/13
8	20816--J1		13028006	01/28/13
9	20817--J2		13028007	01/28/13
10	20818--J3		13028008	01/28/13
11	20819--J4		13028009	01/28/13
12	20820--J5		13028010	01/28/13
13	20821--J6		13028011	01/28/13
14	20822--J7		13028012	01/28/13
15	20823--J8		13028013	01/28/13



Douglas Fleming
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844



Top chord 2x4 SP_#2_N_12A T2 2x6 SP_#2_N_12A
Bot chord 2x6 SP_SS_12A
Webs 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC

130 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 C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpl(+/-)=0 18

Wind loads and reactions based on MWFRS

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

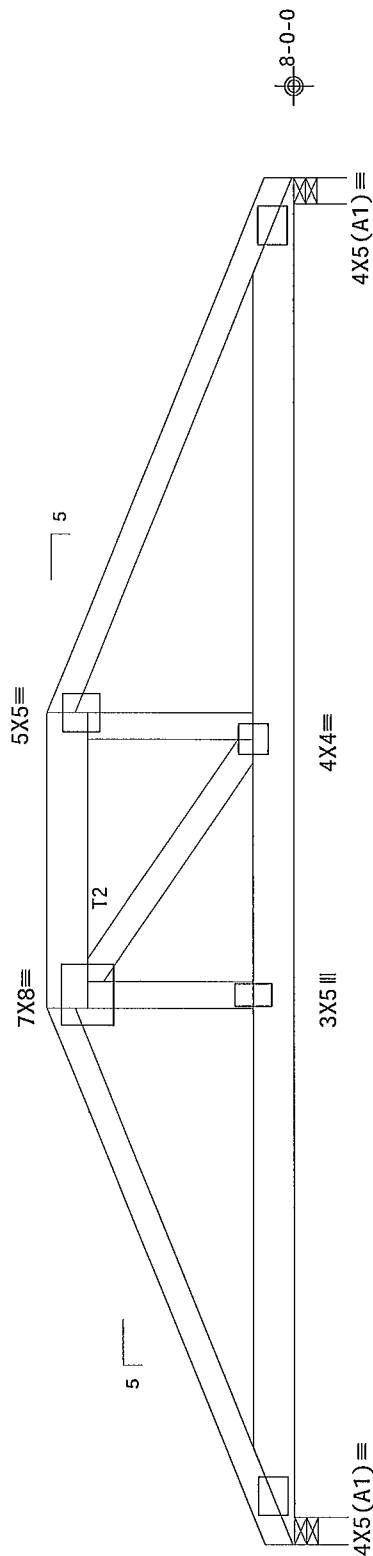
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

Special! loads

Item	Unit	Quantity	Price	Amount	Notes
1. Lumber	Board Feet	1000	1.25	1250.00	
2. Plywood	Square Feet	500	2.50	1250.00	
3. Cement	Sacks	200	6.25	1250.00	
4. Sand	Cubic Yards	10	125.00	1250.00	
5. Gravel	Cubic Yards	10	125.00	1250.00	
6. Steel Reinforcement	Linear Feet	1000	1.25	1250.00	
7. Formwork	Square Feet	500	2.50	1250.00	
8. Labor	Hours	1000	1.25	1250.00	
9. Equipment	Hours	100	12.50	1250.00	
10. Insurance	Percentage	10	12.50	1250.00	
11. Contingency	Percentage	10	12.50	1250.00	
12. Profit	Percentage	10	12.50	1250.00	
13. Total				12500.00	

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

The overall height of this truss excluding overhang is 2-9-7



5-10-8

15-0-0 Over 2 Supports-

R=1439 U=281 W=3 5"

R=1439 ||=281 W=3 5"

Design Crit FBC2010Res/TP1-2007(STD)
ET/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

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

[illegible][illegible]

ALPINE

TW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

JREF- 1UTA215_Z01

SPACING 24 0"

Th s Job s

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sbindustry com

ec 2 For more
org WTCA www

ANSI/TPI 1 Standard
TPI www.tpinet.org

Building Designer p
www.itwbcg.com

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the responsibility
general notes
ICC

33844

Haines City, FL
FL COA #0

(8026- /MO PERKINS /MO PERKINS -- , FL - B)

Top chord 2x4 SP_SS_12A T2 2x6 SP_#2_N_12A
Bot chord 2x6 SP_#2_N_12A
Webs 2x4 SP_#2_N_12A

Lumber grades designated with '12A' use design values approved
1/5/2012 by ALSC

130 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 C, wind TC DL=5 0 psf,
wind BC DL=5 0 psf GCp1 (+/-)=0 18

Wind loads and reactions based on MWFRS

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

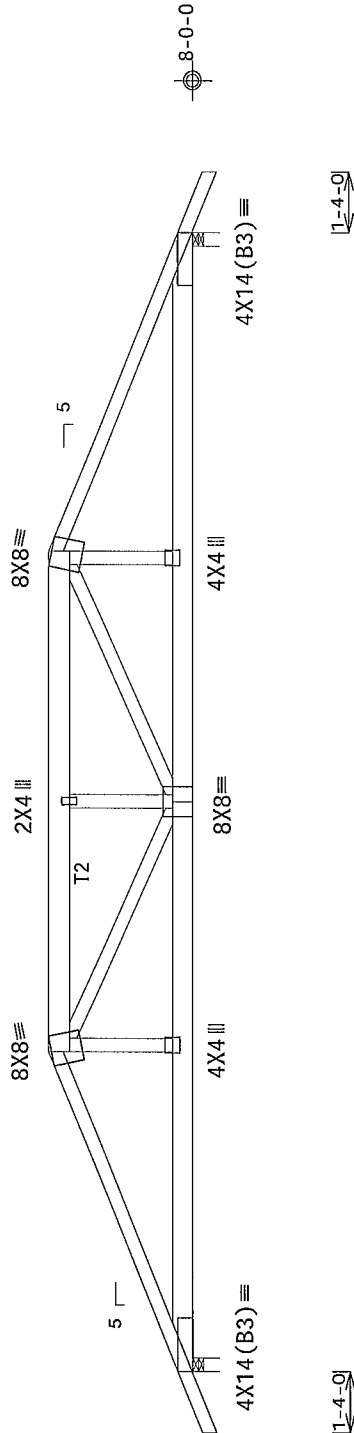
Bottom chord checked for 10 00 psf non-concurrent live load

The overall height of this truss excluding overhang is 3-3-1

Spectral loads

----- (Lumber Dur Fac = 1 25 / Plate Dur Fac = 1 25)
TC- From 62 plf at -1 33 to 62 plf at 7 00
TC- From 31 plf at 7 00 to 31 plf at 18 00
TC- From 62 plf at 18 00 to 62 plf at 26 33
BC- From 4 plf at -1 33 to 4 plf at 0 00
BC- From 20 plf at 0 00 to 20 plf at 7 03
BC- From 10 plf at 7 03 to 10 plf at 17 97
BC- From 20 plf at 17 97 to 20 plf at 25 00
BC- From 4 plf at 25 00 to 4 plf at 26 33
TC- 185 96 lb Conc Load at 7 06, 9 06, 11 06, 12 50
13 94, 15 94, 17 94
BC- 548 01 lb Conc Load at 7 03, 17 97
BC- 127 96 lb Conc Load at 9 06, 11 06, 12 50, 13 94
15 94

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



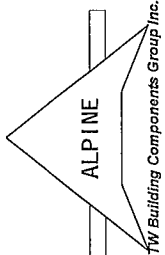
Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

R=2403 U=481 W=3 5"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

Scale = .25"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 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, installing and bracing. Refer to drawings for details. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions.		REF	R215--	20810		
	IMPORTANT Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to drawings for details. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions.		DATE	01/28/13			
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to drawings for details. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions.		DRW	HCSR215	13028015		
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to drawings for details. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions.		HC-ENG	KD/DF			
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to drawings for details. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions. Truss members shall be installed in accordance with the manufacturer's instructions.		SEQN-	251493			
Dur. Fac			1 25	FROM	LRB		
Spacing			24.0"	JREF-	1UTA215_Z01		

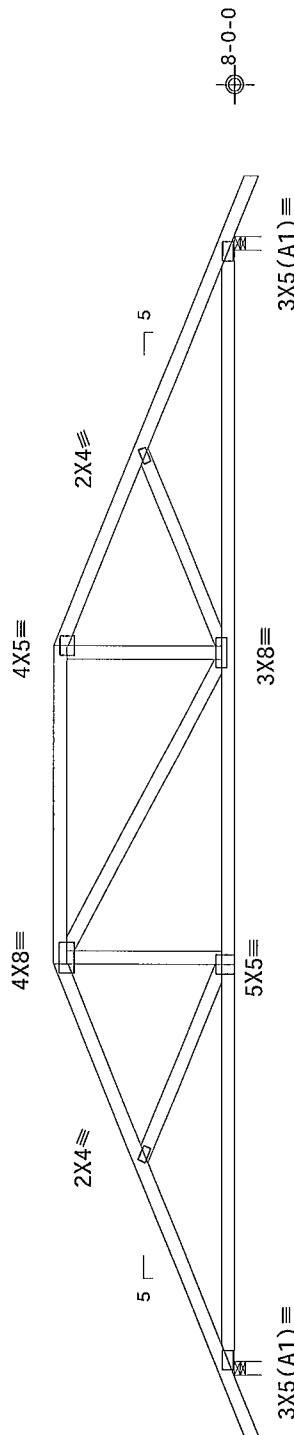
130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCPI (+/-)=0 18

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

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

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

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



1'-4"-0" 9'-0"-0" 7'-0"-0" 9'-0"-0" 1'-4"-0"

25'-0"-0" Over 2 Supports

R=1109 U=207 W=3' 5"

RL=1111/-1111

DOUGLAS FLEMING ENGINEERING

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .25"/Ft.

TC LL	20.0 PSF	REF R215-- 20811
TC DL	10.0 PSF	DATE 01/28/13
BC DL	10.0 PSF	DRW HCURS215 13028001
BC LL	0.0 PSF	HC-ENG KD/DF
TOT.LD.	40.0 PSF	SEQN- 251480
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1UTA215_Z01

STATE OF FLORIDA
PROFESSIONAL ENGINEER

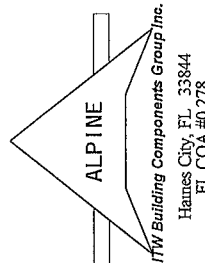
07/28/2013

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET**

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

Trusses require extreme care in fabricating handling spanning installing and bracing. The latest edition of BCIS (Building Component Safety Information by TPI and WIGA) contains guidelines for performing these tasks. All contractors must follow these guidelines. Trusses are designed to perform under specific loading conditions. If the truss is subjected to other than the intended loads, it may become overstressed and fail. Therefore, all contractors shall have a properly attached rigid ceiling. Loads shown for permanent lateral restraint of the truss shall have bracing installed per BCIS sections B3, B7 or B10 as applicable.

LTV Building Components Group Inc. (LTVBCG) shall not be responsible for any deviation from this design due to improper installation or failure to build in accordance with ANSI/TPI 1-91 for handling shipping installation or erection of trusses. Apply plates to each face of trusses and position as shown above and on the Joist Installation Drawing. Refer to drawings 160A-Z for standard plate positions. A seal or cover page listing this drawing indicates acceptance of professional engineering review and approval by LTVBCG. The responsibility of building designer per ANSI/TPI Section 2.2.2.1 shall remain with the architect. The responsibility of LTVBCG will be limited to the manufacture of the trusses. The manufacturer's liability shall be limited to the replacement of the trusses. For more information contact LTVBCG at 800-TPI-8636 www.ltvbcg.com TPI www.tpi.net WIGA www.theindustryconnection.com LOC www.LCSAFE.org



(8026-/MO PERKINS /MO PERKINS -- , FL - B2)

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_SS_12A
Webs 2x4 SP_#2 N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC

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

The overall height of this truss excluding overhang is 4'-11"-1

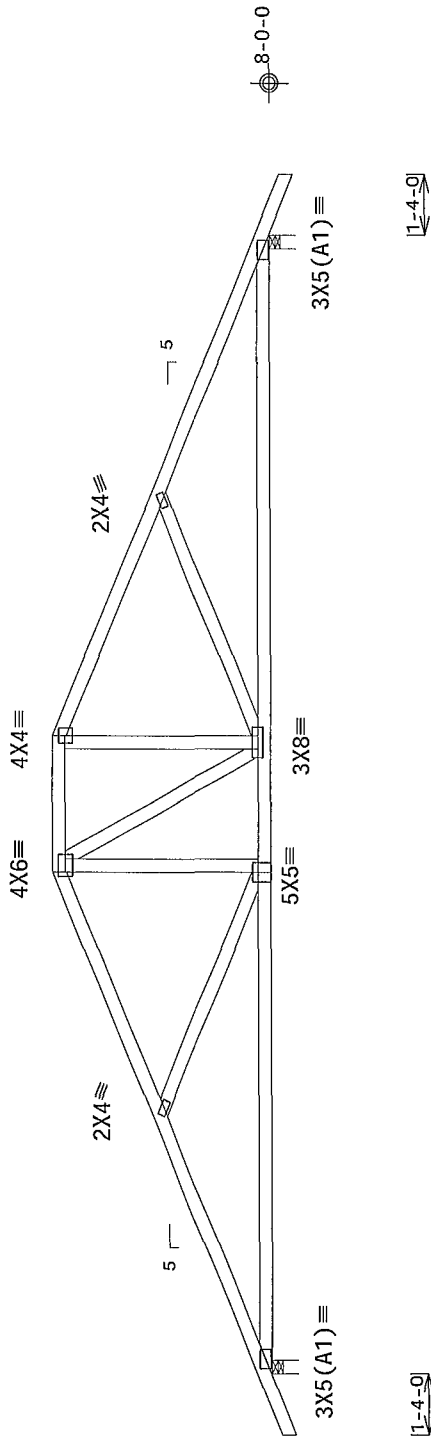
MWFRS loads based on trusses located at least 7 50 ft from roof edge

130 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 C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCp1(+/-)=0 18

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

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

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



25-0-0 Over 2 Supports-

R=1109 U=205 W=3 5"
RL=129/-129

Design Crit: FBC2010Res/TP1-2007(STD
FT/RT=20%(0%)/10(0)

PIT TYP. Wave

FI/-/5/-/-/R/-/-

Scale = .25"/Ft.

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

IMPORTANT: FOUNDATION THIS SECTION TO ALL CONTRACTORS INCLUDING INSTALLING AND BRACING

Follow the latest edition of BCSl (Building Component Safety Information by TPI and WTCA) for safety

practices prior to performing these functions. Installers shall provide temporary bracing per

Locations shown for permanent lateral restraint of web.

shall have bracing installed per BCS1 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 AASHTO 1 of for handling stripping metal fasteners. Apply plates to each face of truss and position as shown above and on the Joint bracing of trusses.

Details unless noted otherwise Refer to drawings 160A-Z for standard plate positions A seal on this

The suitability and use of this design for any structure is indicated by acceptance of professional engineering drawing or cover page listing this drawing

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

general! notes page www.itw-bcg.com www.tpinst.org www.wica.org www.sbcindustry.com

[illegible]

ALPINE

RTW Building Components Group Inc.

7000 26-10

mes City, FL 33844
FL 33844

FL COA #0218

(8026-/MO PERKINS /MO PERKINS -- , FL - B3)

	Top	3ot	2x4	SP_#2	N_12A
	chord	chord	chord	SP_SS_12A	
		Webbs	2x4	SP_#2	N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC

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

The overall height of this truss excluding overhang is 4-11-1

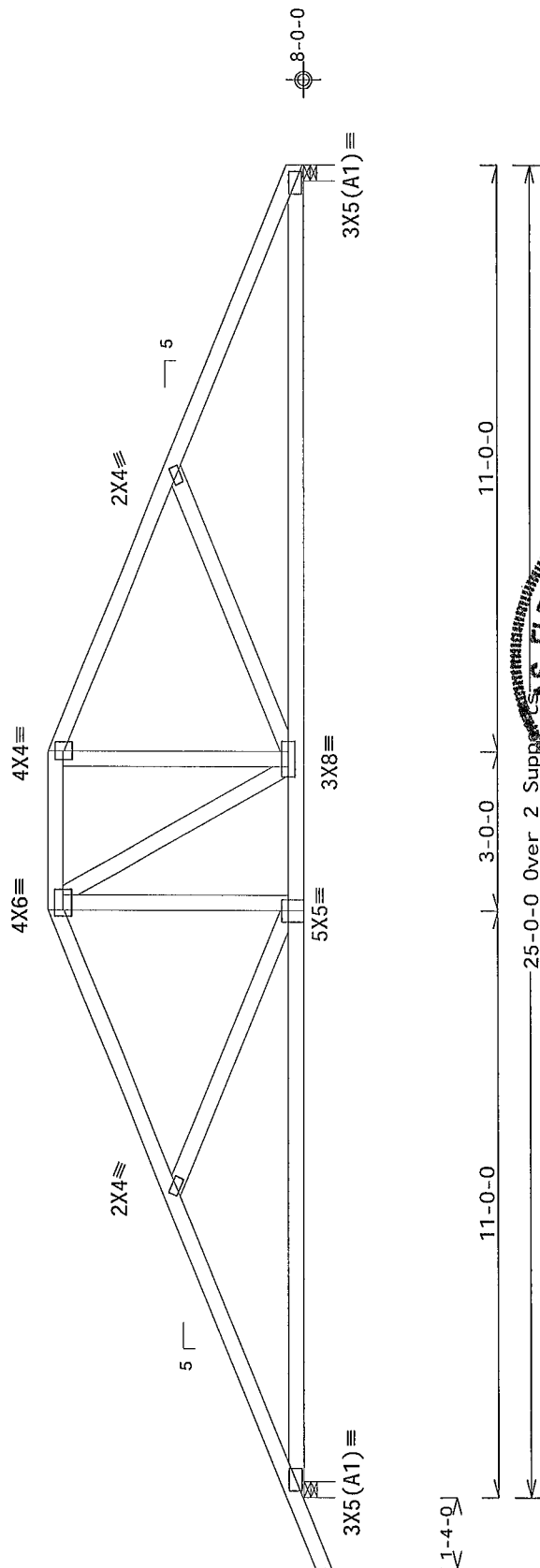
WFRS loads based on trusses located at least 7 50 ft from roof edge

130 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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf GCp1(+/-)=0.18

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

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

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



R=1112 U=206 W=3 5"
RL=113/-119

Design Crit. FBC2010Res/TPI-2007(STD
ET/RT=20%(0%)/10(0)

PLT TYP: Wave

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

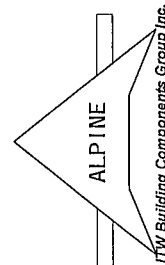
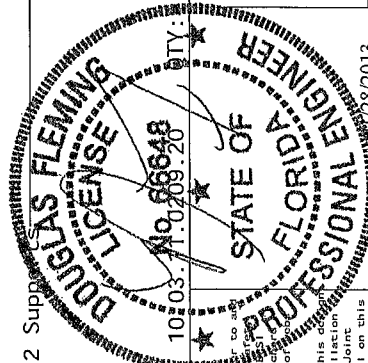
IMPORTANT: PURCHASER'S DESIGN TO ALL CONNECTIONS INCLUDING INSTALLATIONS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information by TPI and WCA) for all practices prior to performing these functions. Installers shall provide temporary bracing per BCSI recommendations. If installers have a property attached structural, sheathing and bottom chord bracing, they must note otherwise. Top chord shall have property attached structural, lateral bracing and bottom chord bracing. BCSI sections E3, R7 or R10, as applicable.

[illegible]

FL/-/5/-/-/R/-
Scale = .3125"/Ft.

TC LL	20.0	PSF	REF	R215--	20813
TC DL	10.0	PSF	DATE	01/28/13	
BC DL	10.0	PSF	DRW	HCUSR215	13028003
BC LL	0.0	PSF	HC-ENG	KD/DF	
TOT.LD.	40.0	PSF	SEQN-	251478	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1UTA215	Z01



Haines City, FL 33844
FL COA #0 278

(8026-/MO PERKINS /MO PERKINS -- , FL - B4)

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_#2 N_12A
Webs 2x4 SP_#2 N_12A

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC

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

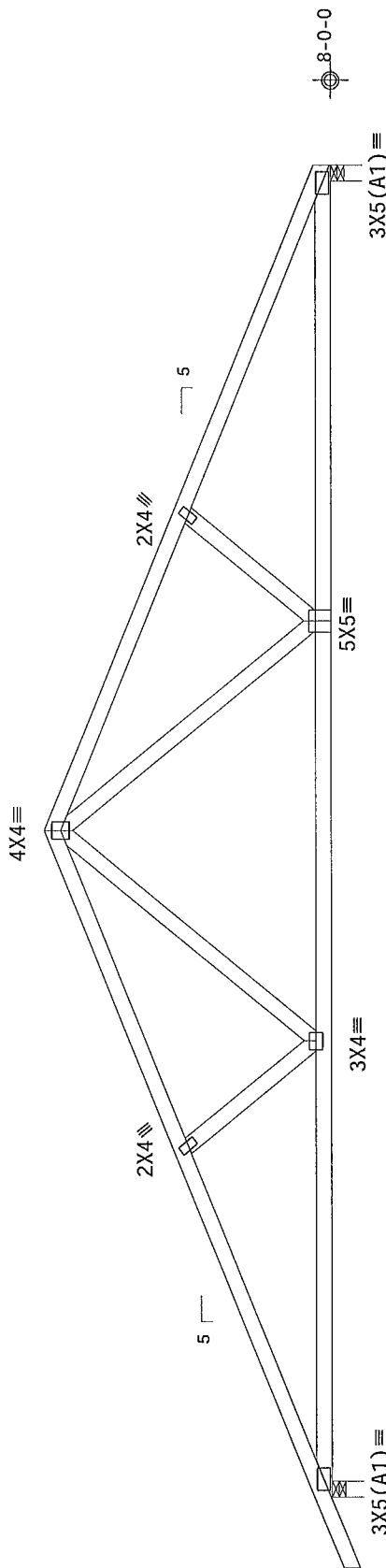
The overall height of this truss excluding overhang is 5-6-9

130 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 C, wind TC DL=5 0 psf,
wind BC DL=5 0 psf GCpl(+/-)=0 18

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

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

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



1-4-0

12-6-0

12-6-0

25-0-0 Over 2 Supports

R=1112 U=205 W=3 5"
RL=127/-133

R=1018 U=179 W=3 5"

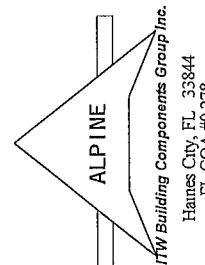
Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .3125"/Ft.

PLT TYP. Wave

READ AND FOLLOW ALL NOTES ON THIS SHEET.

IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Follow the latest edition of BCS (Building Components Systems) Manual for details. 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 detailed per BCS sections B3, B7 or B10 as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation & bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details unless noted otherwise. Refer to drawings 1800-2 for standard plate positions. A seal on this drawing is required 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 the general notes page ITW-BCG www.itw-bcg.com TPI www.tpi-nat.org WTCA www.sbc-industry.com ICC www.iccsafe.org



TC LL	20.0 PSF	REF	R215--	20814
TC DL	10.0 PSF	DATE	01/28/13	
BC DL	10.0 PSF	DRW	HCUSR215	13028004
BC LL	0.0 PSF	HC-ENG	KD/DF	
TOT LD.	40 0 PSF	SEQN-	251476	
DUR. FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF-	1UTA215_Z01	

(8026-/MO PERKINS /MO PERKINS -- , FL - J)

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A
Webs 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC

130 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 C, wind TC DL=5 0 psf,
wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS

(T1) = (J) Tie not calculated Unavailable

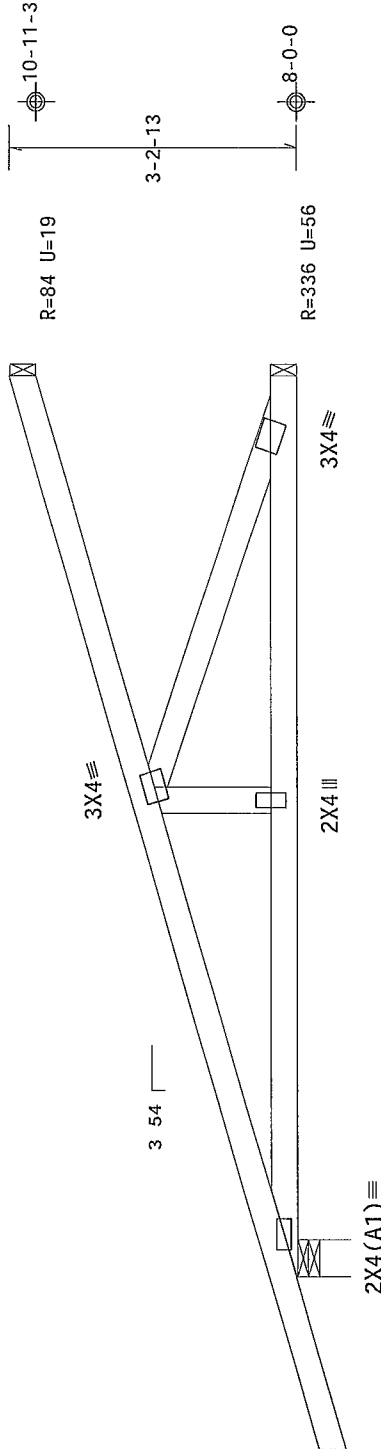
Deflection meets L/240 live and L/180 total load Creep increase
factor for dead load is 1 50

Special loads

----- (Lumber Dur Fac = 1 25 / Plate Dur Fac = 1 25)
TC- From 0 plf at -1 89 to 61 plf at 0 00
TC- From 2 plf at 0 00 to 2 plf at 9 90
BC- From 0 plf at -1 89 to 4 plf at 0 00
BC- From 2 plf at 0 00 to 2 plf at 9 90
PLT- -24 45 lb Conc Load at (1 48, 8 71)
PLT- 129 45 lb Conc Load at (4 31, 9 55)
PLT- 254 68 lb Conc Load at (7 13, 10 38)
PLB- 9 66 lb Conc Load at (1 48, 8 04)
PLB- 98 61 lb Conc Load at (4 31, 8 04)
PLB- 178 25 lb Conc Load at (7 13, 8 04)

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

The overall height of this truss excluding overhang is 3-2-13



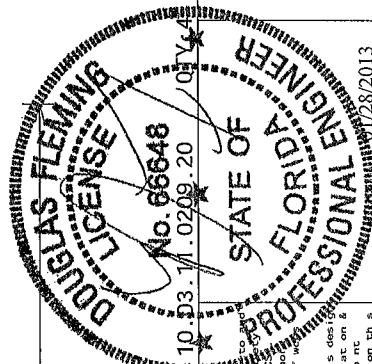
1-10-10
9-10-13 Over 3 Supports
R=358 U=144 W=4 95"

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R215--	20815
TC DL	10.0 PSF	DATE	01/28/13	
BC DL	10.0 PSF	DRW	HCU215	13028005
BC LL	0 0 PSF	HC-ENG	KD/DF	
TOT.LD.	40 0 PSF	SEQN-	251501	
DUR FAC	1.25	FROM	LRB	
SPACING	24 0"	JREF-	1UTA215_Z01	

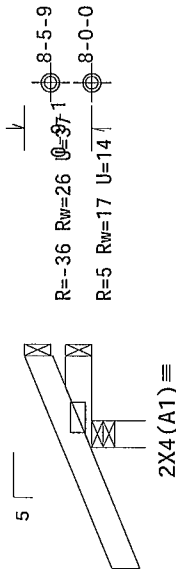


****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating handling shipping installing and bracing
follow the latest edition of BCSI (Building Component Safety Information) by TPI and WCA
Trusses shall be installed in accordance with the instructions provided by the manufacturer
Trusses shall have a properly attached rigid ceiling. Locate one shown for permanent lateral restraint of
any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation &
bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job
Data is 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 structure's
responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information on see this Job's
general notes page. ITW-BCS www.itwbcg.com TPI www.tpinet.org WCA www.bcsindustry.com
IDC www.lccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

The overall height of this truss excluding overhang is 0-9-1

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



1-4-0
1-0-0 Over 3 Supports

R=220 U=66 W=3 5"
RL=27

Design Crit. FBC2010Res/TP1-2007(STD)
 $FT/RT=20\%(0\%)/10(0)$

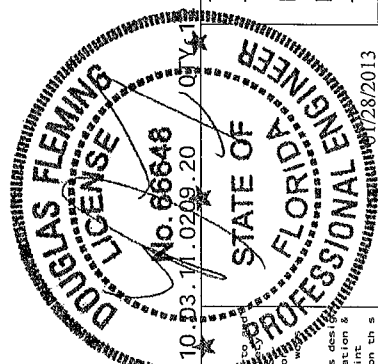
PLT TYP Wave

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

IMPORTANT: FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating shipping, installing and bracing. Refer to the latest edition of BCSI (Build Up Components Safety Information by TPI and WTC) for instructions prior to performing these tasks. Trusses are pre-engineered and designed for the intended application. They are not to be used for any other purpose. Trusses shall have a property attached rating of ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.

ITW Build Up Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation & bracing of trusses. Apply plates to each face of truss and posit on as shown above and on the joint. Trusses shall be installed in accordance with the design. 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. 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 this subject, contact ITWBCG at 1-800-368-7263 or www.itwbuildup.com. ITWBCG is an Equal Opportunity Employer.



FL/-/5/-/-/R/-			Scale =.5"/Ft.
TTC LL	20.0 PSF	REF	R215-- 20816
TTC DL	10 0 PSF	DATE	01/28/13
BC DL	10 0 PSF	DRW	HCIUR215 13028006
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD	40 0 PSF	SEQN-	251513
DUR.FAC	1 25	FROM	LRB
SPACING	24 0"	JREF-	1UTA215_Z01

(8026-/MO PERKINS /MO PERKINS -- , FL - J2)

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_#2 N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC

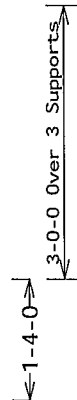
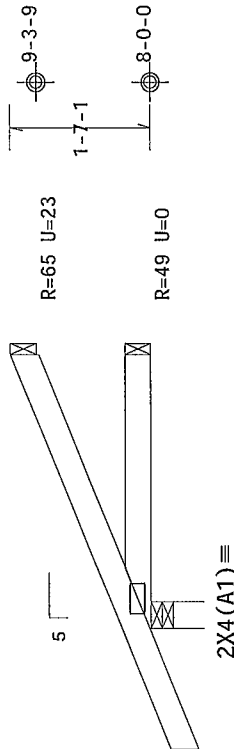
Bottom chord checked for 10 00 psf non-concurrent live load

The overall height of this truss excluding overhang is 1-7-1

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpl(+/-)=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=242 U=44 W=3 5"
RL=51/-20

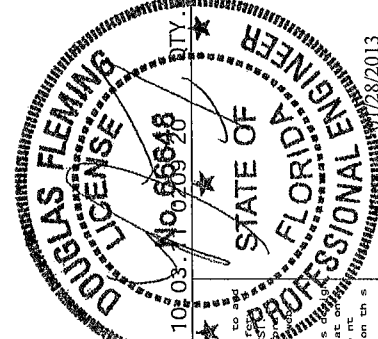
Design Crit. FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

****IMPORTANT**** 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 WTCA for proper practice prior to performing these functions. Installers shall provide bracing for all trusses and shall have properly attached rigid ceiling locations shown for permanent lateral restraint of trusses. Trusses 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 the any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. Data is unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing indicates acceptance of professional engineering structure is responsible for the design shown. The use of this design for any other purpose without the written general notes page of ITW-BCG www.itwbcg.com TPI www.tpi.net WTCA www.sbcindustry.com
ICC www.iccinfo.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



Scale = .5" / Ft

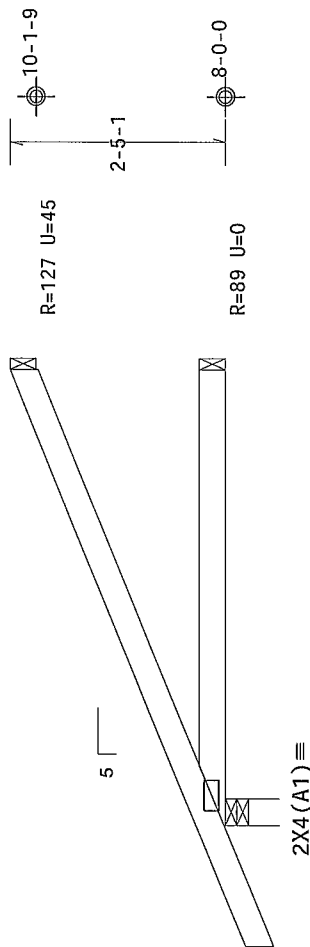
REF	R215--	20817
DATE	01/28/13	
DRW	HCUSR215	13028007
HC-ENG	KD/DF	
SEQN-	251472	
FROM	LRB	
JREF-	1UTA215_Z01	

TC LL	20 0	PSF
TC DL	10 0	PSF
BC DL	10.0	PSF
BC LL	0 0	PSF
TOT LD	40.0	PSF
DUR FAC.	1 25	
SPACING	24.0"	

130 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 C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCp1 (+/-)=0 18

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

The overall height of this truss excluding overhang is 2-5-1



1-4-0

5-0-0 Over 3 Supports

R=313 U=51 W=3 5"
RL=75/-23

Design Crit: FBC2010Res/TPI-2007(STD
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

FL/-/5/-/-/R/-
Scale = .5"/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, installing and bracing. Refer to the following notes regarding the design of BSC Building Components Safety Information by TPI and WTCA for more information or to performing these functions.

Installers shall provide temporary bracing per drawings A608-2 for standard plate positions. A seal on the underside of each chord shall have a properly attached structural sheathing and bottom chords shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of chords shall have bracing installed per BGST sections B3, B7 or B10 as apply cable.

LTV Building Components Group Inc. (LTVBGC) shall not be responsible for any deviation from its documents. Any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation or packaging of trusses. Apply plates to each face of truss and position as shown above on the Joist Details unless otherwise stated. Refer to drawings A608-2 for standard plate positions. A seal on the drawing or cover page stating this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure are the responsibility of the user. LTV Building Designer: LTVBGC, 19600 Highway 101, Suite 200, San Diego, CA 92130. This job was designed by LTVBGC. More information available at www.ltvbgc.com. TPI www.tpiinc.net, WTCA www.wtcaindustrial.com.

TPI www.tpiinc.net
WTCA www.wtcaindustrial.com

ALPINE

TTW Building Components Group Inc.

Hanes City, FL 33844
FL COA #0 278

Top chord 2x4 SP_SS_12A
Bot chord 2x4 SP_SS_12A
Webs 2x4 SP_#2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC

130 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 C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpl(+/-)=0 18

Wind loads and reactions based on MWFRS

(T1) = (J) Tie not calculated Unavailable

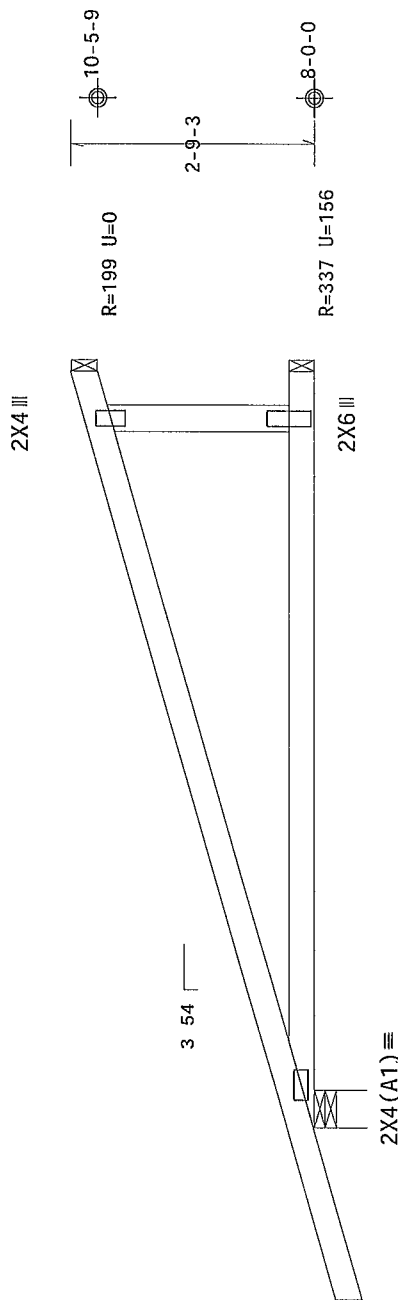
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

Special loads

Count	Label	Dur	Fac = 1	25 /	Plate	Dur	Fac = 1
TC-	From	0	plf at	-1	89	to	61
TC-	From	2	plf at	0	00	to	2
BC-	From	0	plf at	-1	89	to	4
BC-	From	2	plf at	0	00	to	2
TC-	From	24	lb	Conc	Load at	1	48
TC-	From	129	lb	Conc	Load at	4	31
TC-	From	262	lb	Conc	Load at	7	13
BC-	From	9	lb	Conc	Load at	1	48
BC-	From	98	lb	Conc	Load at	4	31
BC-	From	181	lb	Conc	Load at	7	13

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

The overall height of this truss excluding overhang is 2-9-3



← 1-10-10 →
8-3-11 Over 3 Supports
R=311 I=129 W=4 95"

Design Crit: $\text{FBC2010Res/TPI} - 2007(\text{STD} \text{ FT/RT} = 20\%(0\%)/10(0))$

PLT TYP: Wave

10 03
T. 0209 20

Scale = .5"/Ft

TC LL	20	0	PSF	REF	R215--	20820
TC DL	10.0	PSF	DATE	01/28/13		
BC DL	10.0	PSF	DRW	HCU8R215	13028010	
BC LL	0.0	PSF	HC-ENG	KD/DF		
TOT.LD.	40.0	PSF	SEQN-	251511		
DUR.FAC.	1.25		FROM	LRB		
SPACING	24.0"		JREF-	1UTA215_Z01		

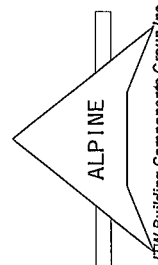
****IMPORTANT****

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

***-WARNUNG*-** READ AND FOLLOW ALL NOTES ON THIS SHEET!

Trusses require extreme care in fabricating handling shipping installing and bracing
Follow the latest edition of BCSI (Building Component Safety) information by TPI and WTCA for
proper installation. If you are unsure of how to install or brace trusses please contact your distributor.
If you have a question otherwise top chord shall have properly attached structural sheathing and bottom
chord shall have a permanently attached rigid ceiling. Locations shown for permanent lateral restraint of
chords shall have bracing installed per BCSI sections B3 B7 or B10 as applicable

LTV Building Components Group Inc. (LTVBCG) shall not be responsible for any deviation from this document
due to any failure to build the trusses in conformance w ANSI/TPI 1 or for handling shipping installation
or bracing of trusses. Apply trusses to each face of truss and position as shown above and on the Joint
Detail Drawing. The drawings show the minimum required bracing. Additional bracing may be added at this
drawing or cover page listing this drawing. Indicates acceptance of professional engineering
responsibility solely for the design shown. The suitability and use of this design for any structure is
the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This Job's
general notes page LTV-BCSI www.ltvbcg.com TPI www.tpiinc.org WTCA www.industrycan.com



ITT Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

(8026-/MO PERKINS /MO PERKINS -- , FL - J6)

Top chord 2x4 SP_#2_N_12A
Bot chord 2x4 SP_#2_N_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC

(T1) = (J) Tie not calculated Unavailable

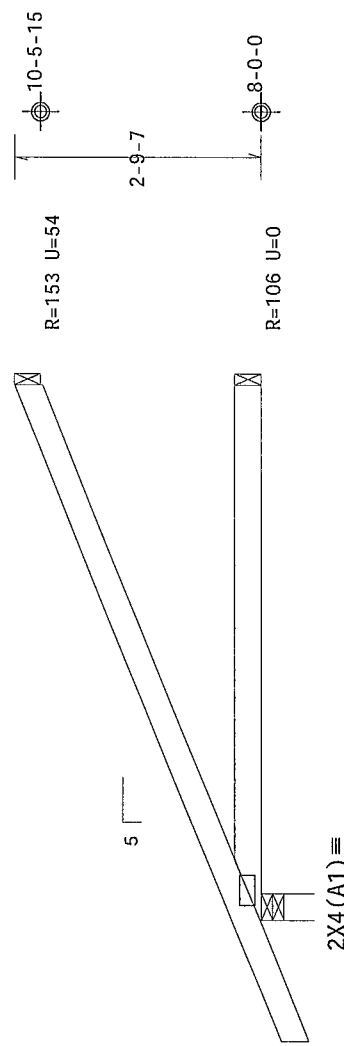
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

130 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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf GCPI (+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load

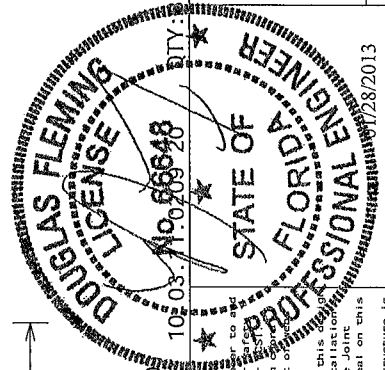
The overall height of this truss excluding overhang is 2-9-7



5' 1-4-0
5-10-8 Over 3 Supports
R=346 U=54 W=3 5"
RL=86/-24

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave	FL/-/5/-/-/R/-		Scale = .5" / Ft.	
	TC LL	20.0 PSF	REF	R215-- 20821
ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	TC DL	10.0 PSF	DATE	01/28/13
	BC DL	10.0 PSF	DRW	HCUSR215 13028011
ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	BC LL	0.0 PSF	HC-ENG	KD/DF
	TOT.LD	40.0 PSF	SEQN-	251483
ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	DUR.FAC.	1.25	FROM	LRB
	SPACING	24.0"	JREF-	1UTA215_Z01



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****IMPORTANT**** 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 WTCA for detailed instructions prior to performing these tasks. The contractor shall have a properly attached structural sheathing and bottom chord bracing installed per BCSI sections 83, 87 or 810 as applicable. Locations shown for permanent lateral restraint only. 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/TPI 1 or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 1604-Z for standard plate positions. A seal on this drawing is required to cover page 1 of this drawing. The contractor shall be responsible for the structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This Job's general notes page ITW-BCG www.tbcs.com TPI www.tpi.net WTCA www.tbcsindustry.com ICC www.iccsafe.org

(8026- /MO PERKINS /MO PERKINS -- , FL - J7)

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC

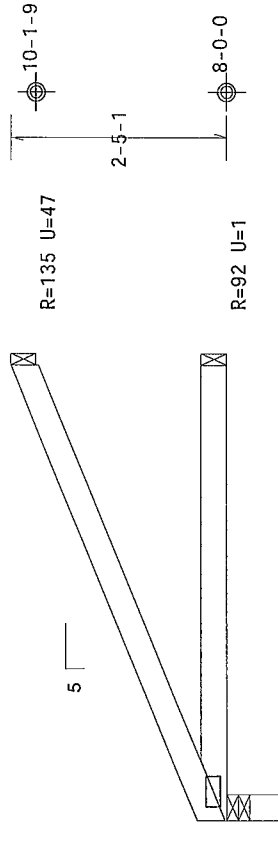
Bottom chord checked for 10 00 psf non-concurrent live load

The overall height of this truss excluding overhang is 2-5-1

130 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 C, wind TC DL=5 0 psf,
wind BC DL=5 0 psf GCpl (+/-)=0 18

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

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



2X4 (A1) =

5'-0-0 Over 3 Supports

R=210 U=22 W=3 5'

RL=59

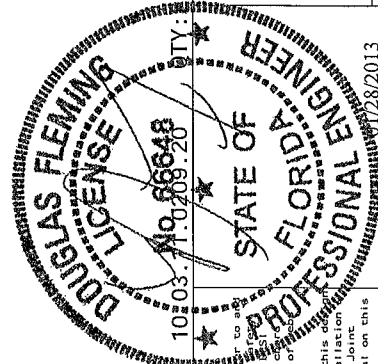
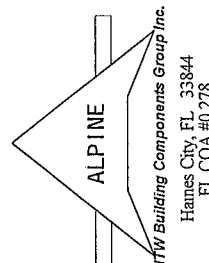
Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the
latest edition of BCSI (Building Component Safety Information) by TPI and WTCA for the most current
practices prior to performing these functions. Installers shall provide temporary bracing per BCSI
requirements. Trusses shall be properly braced and secured to the building structure. Trusses
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
any failure to build the truss in accordance with ANSI/TPI 1 or for handling, shipping, installation
bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint
Details unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on this
drawing or cover page listing this drawing indicates acceptance of professional engineering. The seal of the
responsibility solely for the design shown. The seal of the responsibility and use of this design for any structure is
general notes page ITW BCG www.itwbcg.com TPI www.tpi.net WTCA www.bcsindustry.com
LOC www.locsafe.org



10 03 10 03 20

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

Scale = .5" /Ft.

REF	R215---	20822
DATE	01/28/13	
DRW	HCUSR215	13028012
HC-ENG	KD/DF	
SEQN-	251474	
FROM	LRB	
JREF-	1UTA215_Z01	

TC LL

20.0 PSF

TC DL

10.0 PSF

BC DL

10.0 PSF

BC LL

0.0 PSF

TOT. LD

40.0 PSF

DUR. FAC

1 25

SPACING

24.0"

(8026-/MO PERKINS /MO PERKINS -- , FL - J8)

Top chord 2x4 SP_#2 N_12A
Bot chord 2x4 SP_#2 N_12A

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC

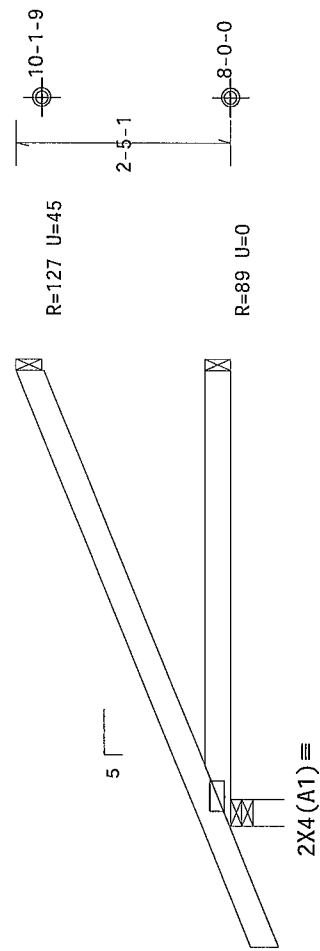
Bottom chord checked for 10 00 psf non-concurrent live load

The overall height of this truss excluding overhang is 2-5-1

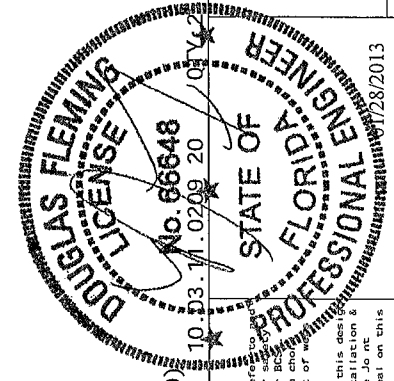
130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 4 50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5 0 psf,
wind BC DL=5 0 psf GCPI (+/-)=0 18

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



5-0-0 Over 3 Supports
R=313 U=51 W=3 5"
RL=75/-23



Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

PLT TYP Wave	Scale = .5" /Ft.	
	TC LL	20.0 PSF
	TC DL	10.0 PSF
	BC DL	10.0 PSF
	BC LL	0.0 PSF
	TOT LD	40.0 PSF
	DUR. FAC	1.25
ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	SPACING	24.0"
	REF	R215-- 20823
	DATE	01/28/13
ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	DRW	HCUSR215 13028013
	HC-ENG	KD/DF
	SEQN-	251473
ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	FROM	LRB
	JREF-	1UTA215_Z01

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS
Trusses require extreme care in fabricating handling shipping installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information) by TPI and WCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI unless noted otherwise. Temporary bracing shall be provided for all locations shown for permanent lateral restraint of the truss. Locations shown for permanent lateral restraint of the truss 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 accordance with ANSI/TPI 1 or for handling shipping installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise. Refer to drawings 150A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The ITWBCG shall not be responsible for any structure is constructed using this design. For more information visit www.tpi.net or www.wcaindustry.com. The ITWBCG shall not be responsible for any structure is constructed using this design. For more information visit www.tpi.net or www.wcaindustry.com.
ICC www.iccsafe.org