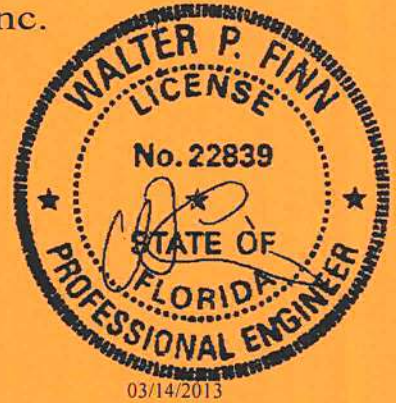


ITW Building Components Group, Inc.

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:1UJJ487-Z0114095420



Truss Fabricator: **Anderson Truss Company**
Job Identification: **13-029B--Doug Edgley Durham Res II -- Lake City, FL**
Truss Count: **45**
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 - 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: HCUSR487

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 12015EC1-GBLLETIN-GABRST10-BRCLBSUB-12030EC1-PB16010-

#	Ref	Description	Drawing#	Date
1	67194-A	37'6" Stepdow	13073025	03/14/13
2	67195-A1	37'6" Stepdow	13073006	03/14/13
3	67196-A2	37'6" Stepdow	13073003	03/14/13
4	67197-A3	37'6" Stepdow	13073002	03/14/13
5	67198-A4	37'6" Stepdow	13073030	03/14/13
6	67199-A5	37'6" Stepdow	13073005	03/14/13
7	67200-H11AM	37'6" Step	13073001	03/14/13
8	67201-H15AM	37'6" Step	13073002	03/14/13
9	67202-H17AM	37'6" Step	13073003	03/14/13
10	67203-H19AM	37'6" Step	13073004	03/14/13
11	67204-H21AM	37'6" Mono	13073005	03/14/13
12	67205-H7AM	37'6" Stepd	13073014	03/14/13
13	67206-H9AM	37'6" Stepd	13073006	03/14/13
14	67207-H13AM	37'6" Step	13073007	03/14/13
15	67208-H11A	43' Stepdow	13073008	03/14/13
16	67209-H13A	43' Stepdow	13073009	03/14/13
17	67210-H15A	40' Stepdow	13073010	03/14/13
18	67211-H17A	40' Stepdow	13073011	03/14/13
19	67212-H19A	40' Stepdow	13073012	03/14/13
20	67213-H21A	37'6" Stepd	13073014	03/14/13
21	67214-H7A	43' Stepdow	13073015	03/14/13
22	67215-H9A	43' Stepdow	13073013	03/14/13
23	67216-B	44'4" Stepdow	13073019	03/14/13
24	67217-B1	44'2" Stepdow	13073020	03/14/13
25	67218-B2	36'10" Stepdo	13073028	03/14/13
26	67219--BDG	44'4" Gable	13073029	03/14/13
27	67220--C	24' Common	13073015	03/14/13
28	67221--CDG	24' Gable	13073013	03/14/13
29	67222--CP	8'3"10 Gable	13073016	03/14/13
30	67223--CJ1	1' Jack	13073009	03/14/13
31	67224--CJ3	3' Jack	13073010	03/14/13
32	67225--CJ3A	3' Jack	13073026	03/14/13
33	67226--CJ5	5' Jack	13073001	03/14/13
34	67227--CJ5A	5' Jack	13073024	03/14/13
35	67228--EJ7	7' End Jack	13073011	03/14/13
36	67229--EJ7	7' End Jack	13073023	03/14/13

#	Ref	Description	Drawing#	Date
37	67230-EJ7A	7' End Jack	13073027	03/14/13
38	67231-HJ	9'10"13 Hip J	13073012	03/14/13
39	67232-HJ1A	9'10"13 Hip	13073007	03/14/13
40	67233-BPB	5'8"10 Commo	13073008	03/14/13
41	67234-BPB	6'0"10 Commo	13073021	03/14/13
42	67235-BP1	8'11"10 Gabl	13073022	03/14/13
43	67236-APB	4'11"14 Comm	13073017	03/14/13
44	67237-APB1	4'11"14 Ste	13073004	03/14/13
45	67238-APB2	18'5"15 Mon	13073018	03/14/13

Replacement
Set



	Top chord	2x4	SP_#1_12A
Bot chord	2x4	SP_#1_12A	
Webbs	2x4	SP_#3_12A	

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

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

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

Right cantilever is exposed to wind

Right end vertical not exposed to wind pressure.

(b) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(a) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.) nails @ 6" OC.

(c) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

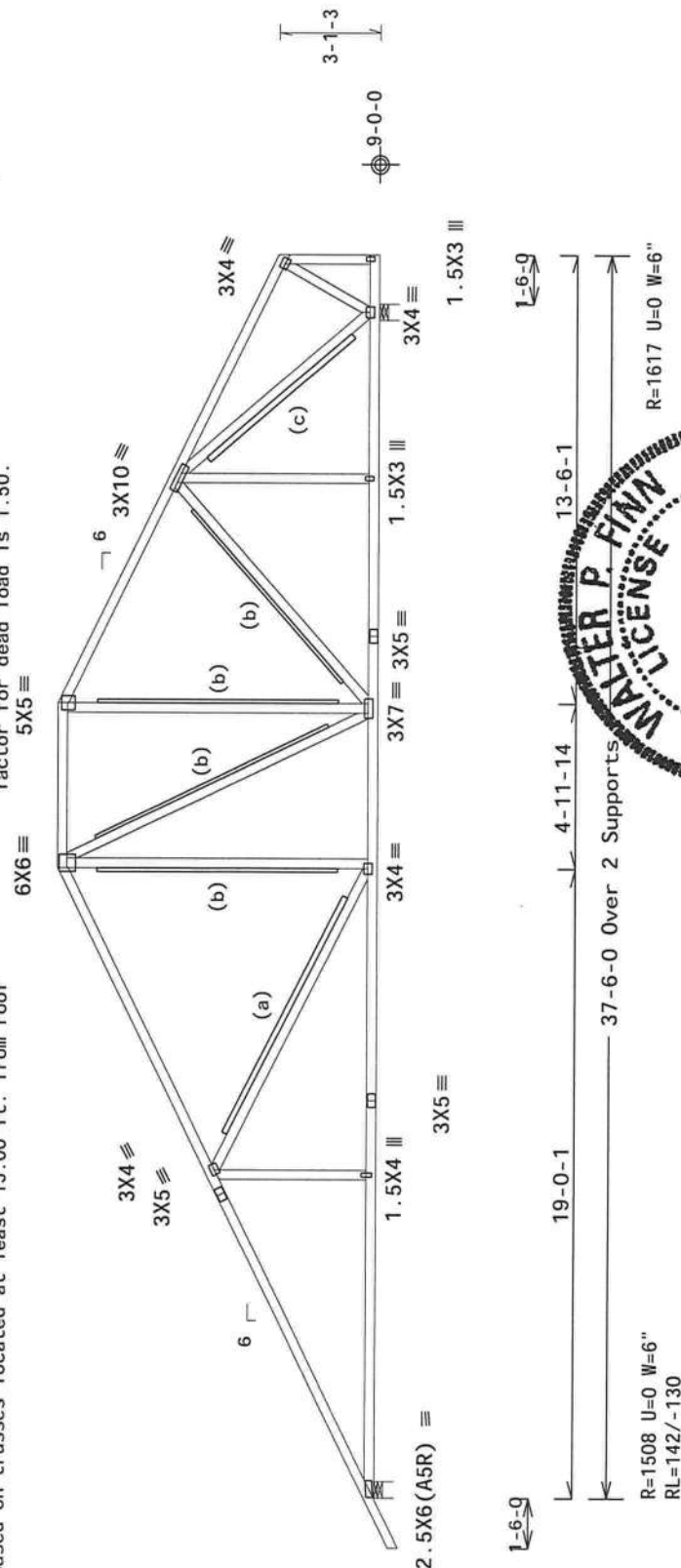
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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



PLT TYP. Wave

Design Crit: $\text{FBC2010Res/TPI-2007(STT}_{\text{FT/RT}}=10\%(0\%)/o(0)$ FL/-/5/-/-/R/-
Scale = .1875"/Ft.

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

****IMPORTANT****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. For more information on the latest edition of BCSI (Building Component Safety Information, by TPI and WTCFA) for a complete listing of truss manufacturers, visit www.bcsi.org. Truss installers shall provide temporary bracing per BCSI and BCSA (Building Component Safety Association) recommendations. Truss manufacturing and bracing shall be in accordance with BCSI and BCSA recommendations. Locations show for placement, lateral bracing, or bracing shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (TWBCG) shall not be responsible for any deviation from this design or specification by its subcontractors, suppliers, fabricators, installers, erectors, contractors, or other personnel in accordance with ANSI/TPI 1, or for handling, shipping, installation, erection, or use of the product. The user assumes full responsibility for the safe use of the product. A seal on this 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/TPI 1 Sec. 2. For more information see: www.twbcg.com. General notes page: TWBCG-06; www.twbcg.com; TPI: www.tpinet.org; WDA: www.sbc-industry.com.

A circular professional engineer seal for the State of Florida. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom. In the center, there is a signature and the number "10896". To the right of the seal, the text "S. designat ion & DATE" is partially visible.

03/14/2013

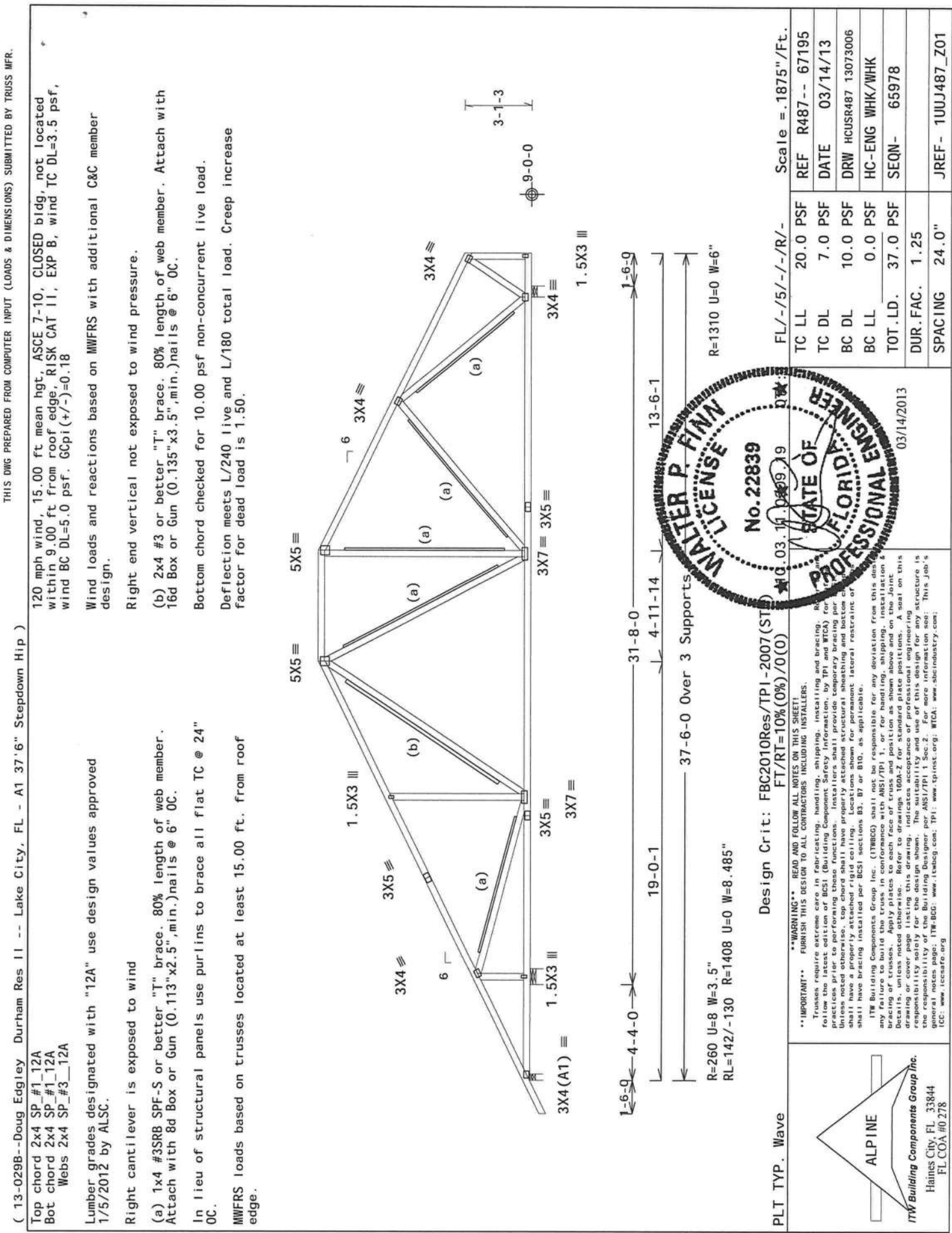
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TC DL	7.0 PSF	DATE 03/14/13
BC DL	10.0 PSF	DRW HCUR487 13073025
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	37.0 PSF	SEQN- 66015
DUR.FAC.	1.25	
SPACING	24.0"	JREE- 1UJJ487 701

ALPINE

TW Building Components Group Inc.

Tammes City, FL 33844

FL COA #0 278



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

(13-0298--Doug Edgley Durham Res II -- Lake City, FL - A1 37'6" Steppedown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

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

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

Right cantilever is exposed to wind

Right end vertical not exposed to wind pressure.

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(b) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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



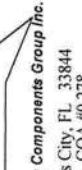
Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave	FL/-/5/-/-/R/-	Scale = .1875"/Ft.
	TC LL	20.0 PSF
	TC DL	7.0 PSF
	BC DL	10.0 PSF
	BC LL	0.0 PSF
	TOT. LD.	37.0 PSF
	DUR. FAC.	1.25
	SPACING	24.0"
	REF	R487-- 67195
	DATE	03/14/13
	DRW	HCUSR487 13073006
	HC-ENG	WHK/WHK
	SEQN-	65978
	JREF-	1UJ487_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 the latest edition of BCSP (Building Component Safety Information, by TPI and WICA) for practices prior to performing these functions. Installers shall provide temporary bracing per details shown on this drawing. Trusses shall be braced in accordance with the details shown on this drawing. Trusses shall have a properly attached rigid collar. Locations shown for permanent lateral restraint of shall have bracing installed per BCSP 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 or bracing. Trusses shall be braced in accordance with the details shown on this drawing. Trusses shall have a properly attached rigid collar. Locations shown for permanent lateral restraint of shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.
drawing or cover page listing this design. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This Job's general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WICA: www.sbcindustry.com; IBC: www.international.org



ALPINE



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

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - A2 37'6" Stepdown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

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

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

Right cantilever is exposed to wind

Right end vertical not exposed to wind pressure.

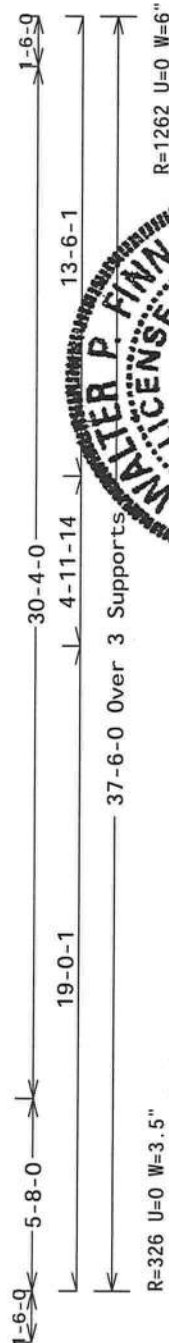
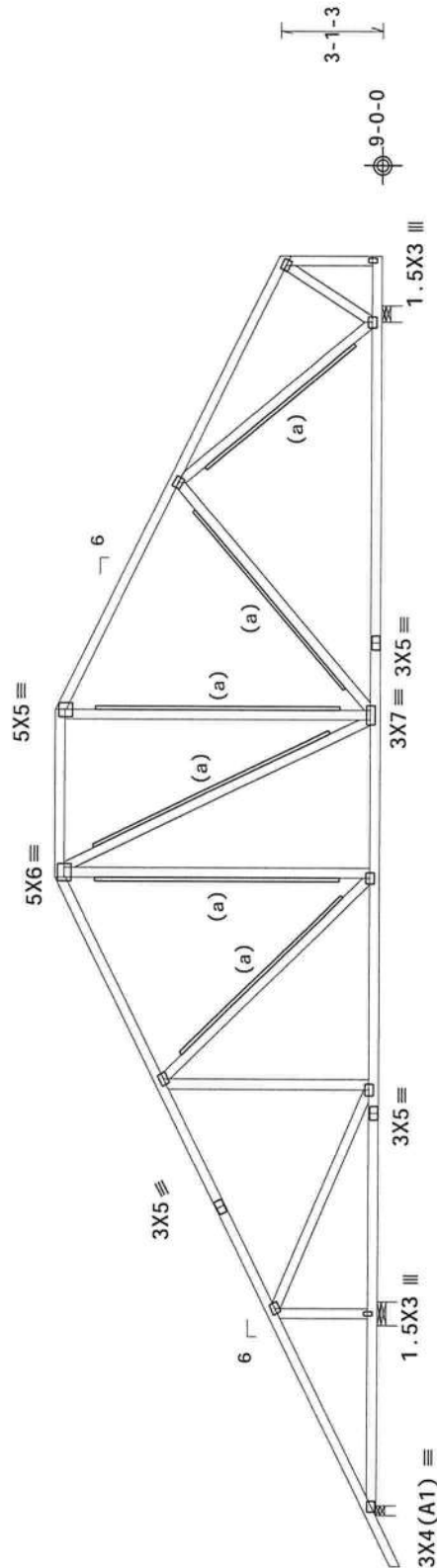
(a) 1x4 #3SR8 SPF-S or better "I" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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



R=326 U=0 W=3.5"
RL=142/-130

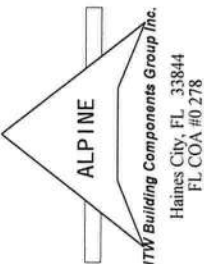
Note: All Plates Are 3X4 Except As Shown.

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

PLT TYP. Wave

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	67196
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073003
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.	37.0 PSF	SEQN-	65971	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487_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. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for details on proper handling, shipping, installing and bracing. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility of the Building Design Group, Inc. (BDGI) for the design of this structure is required. The responsibility and use of this design for any structure is the responsibility of the Building Design Group, Inc. (BDGI). This job's general notes page: ITW-BDG: www.itwbdg.com; TPI: www.tpinet.org; WTCA: www.alcindustry.com; ICC: www.iccsafe.org

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - A3 37'6" Stepdown Hip)

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.

Right end vertical not exposed to wind pressure.

(a) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A : B3 2x4 SP M-30:
Webs 2x4 SP #3_12A

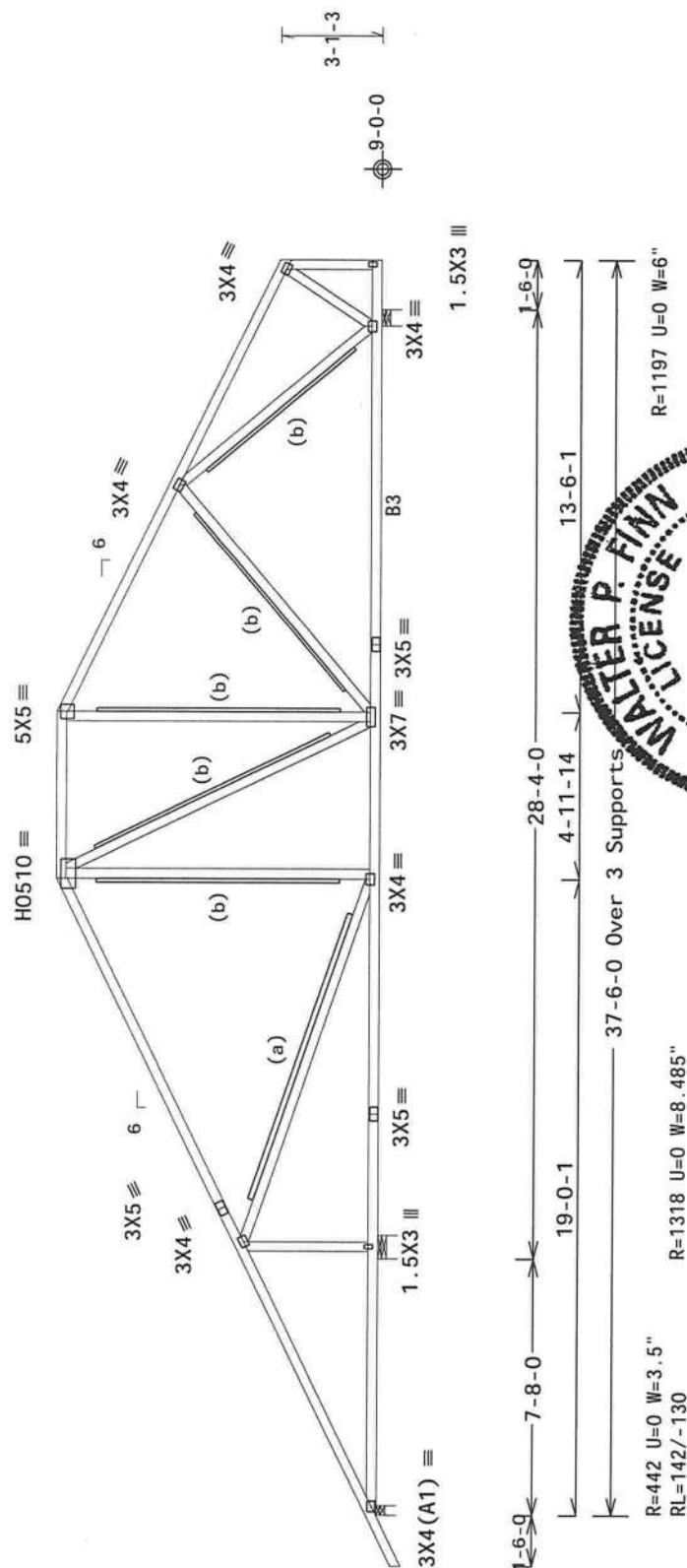
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Right cantilever is exposed to wind

(b) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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



R=442 U=0 W=3.5"
RL=142/-130

R=1318 U=0 W=8 485"

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2010Res/TPI-2007(STP)

FL/-/5/-/-/R/-/
Scale = 1875"/Ft.

TC LL	20.0 PSF	REF R487--	67197
TC DL	7.0 PSF	DATE	03/14/13
BC DL	10.0 PSF	DRW	HCUSR487 13073002
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT. LD.	37.0 PSF	SEQN-	65964
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1UJJ487 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. Refer to the following instructions for the correct installation of the trusses. To follow the latest edition of BCST (Building Construction Standards) for the correct formation, by TPI and WCA for the correct installation of the trusses. Installers shall have properly attached structural sheathing and bracing installed on all walls and roof surfaces prior to performing these functions. Trusses shall be installed in accordance with the manufacturer's instructions. If the trusses are not installed in accordance with the manufacturer's instructions, the manufacturer shall have a property attached rigid ceiling. Locations shown for permanent lateral restraint of the trusses shall have bracing installed per BCST sections 83, 87 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall be responsible for any deviation from this drawing. If any failure to build the truss in conformance with ANSI/TPI 1-1, or for handling, shipping, installation or erection of the truss, or for any of the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 sec. 2. For more information see: ITWBCG's general notes page: <http://www.itw-bcg.com>; TPI: <http://www.tpi.net>; WCTA: <http://www.sbcindustry.com>.

03/14/2013

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Total: 1130 drawings

100

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100

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(13-029B--Doug Edgley Durham Res II -- Lake City, FL - A4 37'6" Stepdown Hip)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

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. GCpl(+/-)=0.18

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

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

Right cantilever is exposed to wind

Right end vertical not exposed to wind pressure.

(b) 1x4 #3SR8 SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

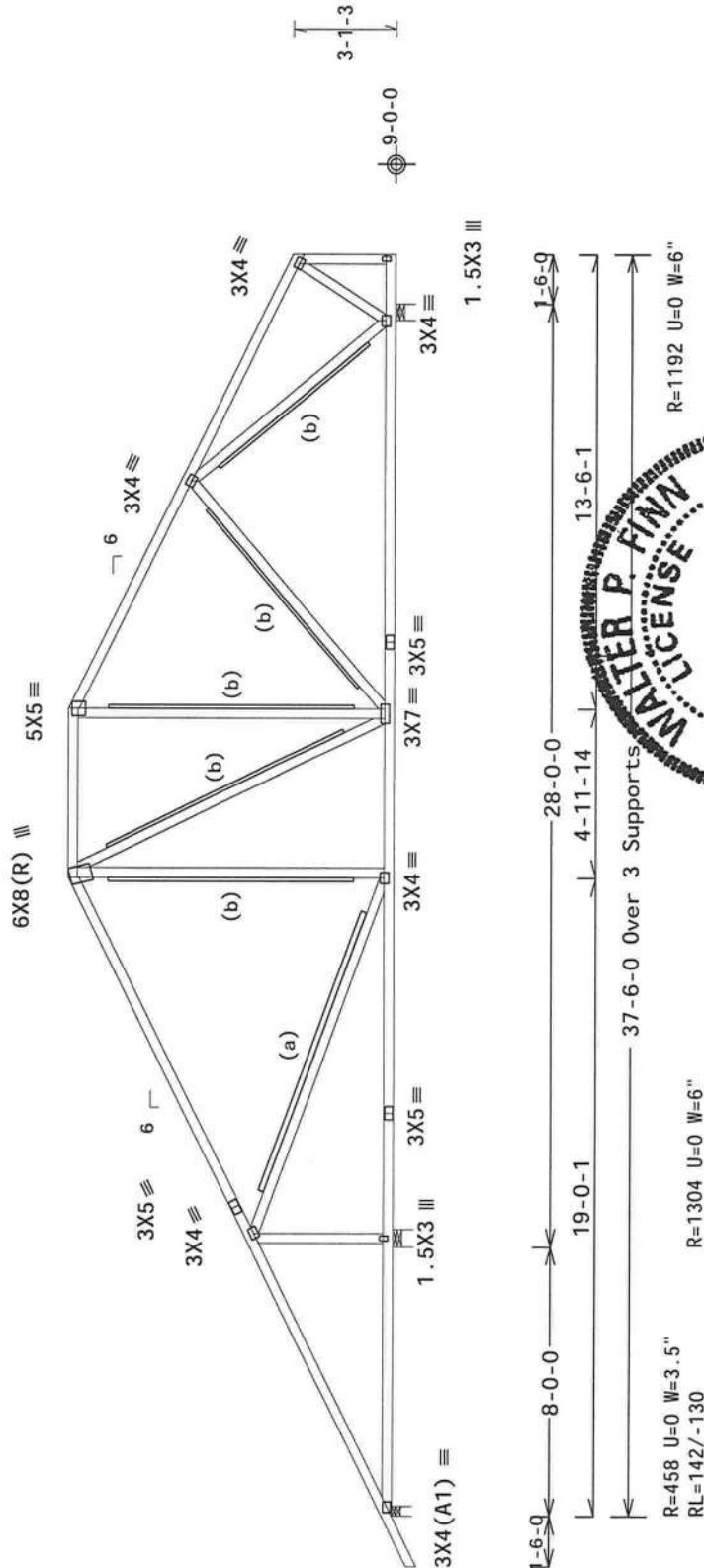
(a) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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



PLT TYP. Wave

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

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

Scale = .1875"/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.		03/14/2013		SCALE = 1/8" = 1'-0"	
	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 practices prior to performing these functions. Installers shall provide temporary bracing for all trusses noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.				TC LL	20.0 PSF
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or 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-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's structural notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sacindustry.com; IBC: www.ircsafe.org				TC DL	7.0 PSF
					BC DL	10.0 PSF
					BC LL	0.0 PSF
					TOT.LD.	37.0 PSF
				DUR.FAC.	1.25	
				SPACING	24.0"	
				IRFF-	11UJ487_Z01	

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - A5 37'6" Steppedown Hip)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

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

Right cantilever is exposed to wind

(b) 1x4 #3SRB SPF-S or better "I" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

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

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

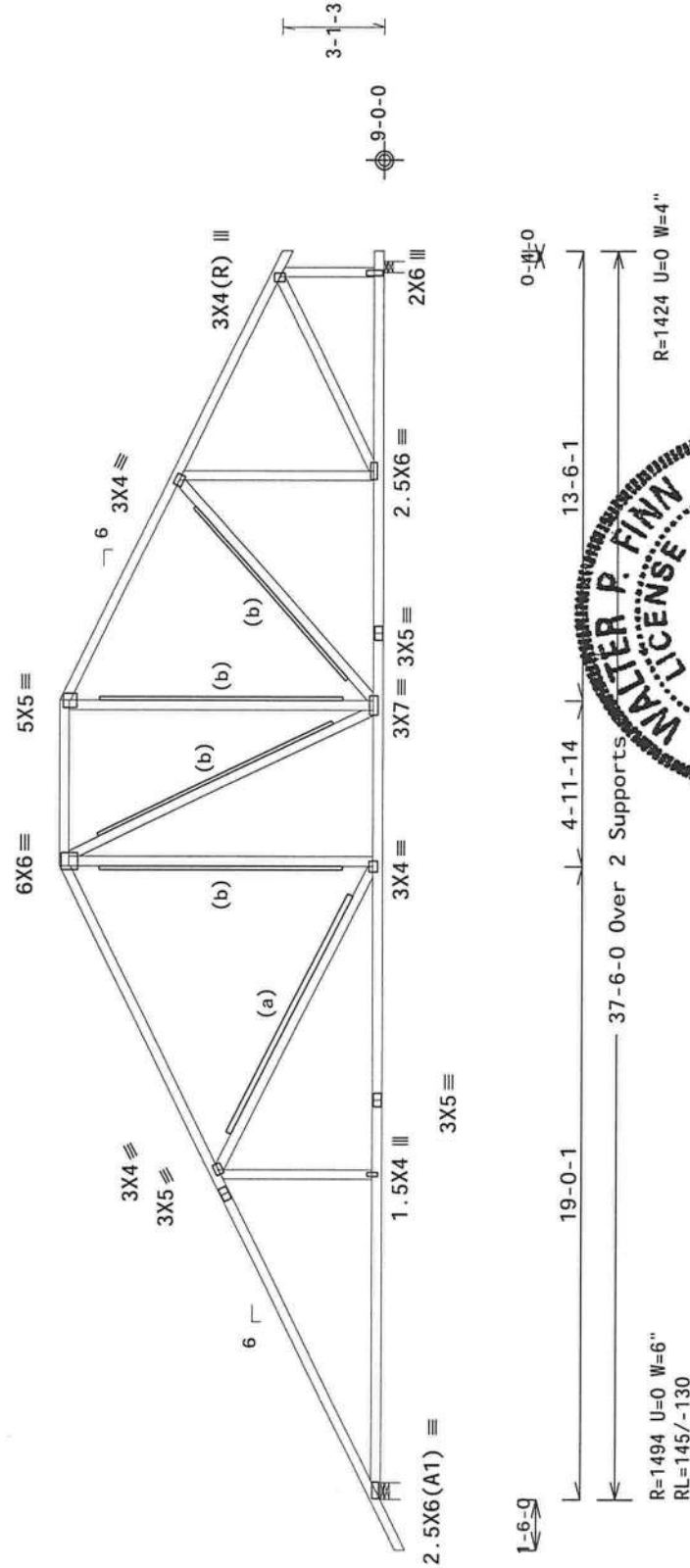
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) 2x4 #3 or better "I" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(S15)

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

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

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	67199
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073005
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.	37.0 PSF	SEQN-	66025	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UUJ487_Z01	

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP_#1_12A : T1 2x4 SP M-30:

Bot chord 2x4 SP_#1_12A

Webbs 2x4 SP_#3_12A :W1 2x4 SP_#1_12A:

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

Right cantilever is exposed to wind

Calculated horizontal deflection is 0.11" due to live load and 0.15" due to dead load.

(a) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

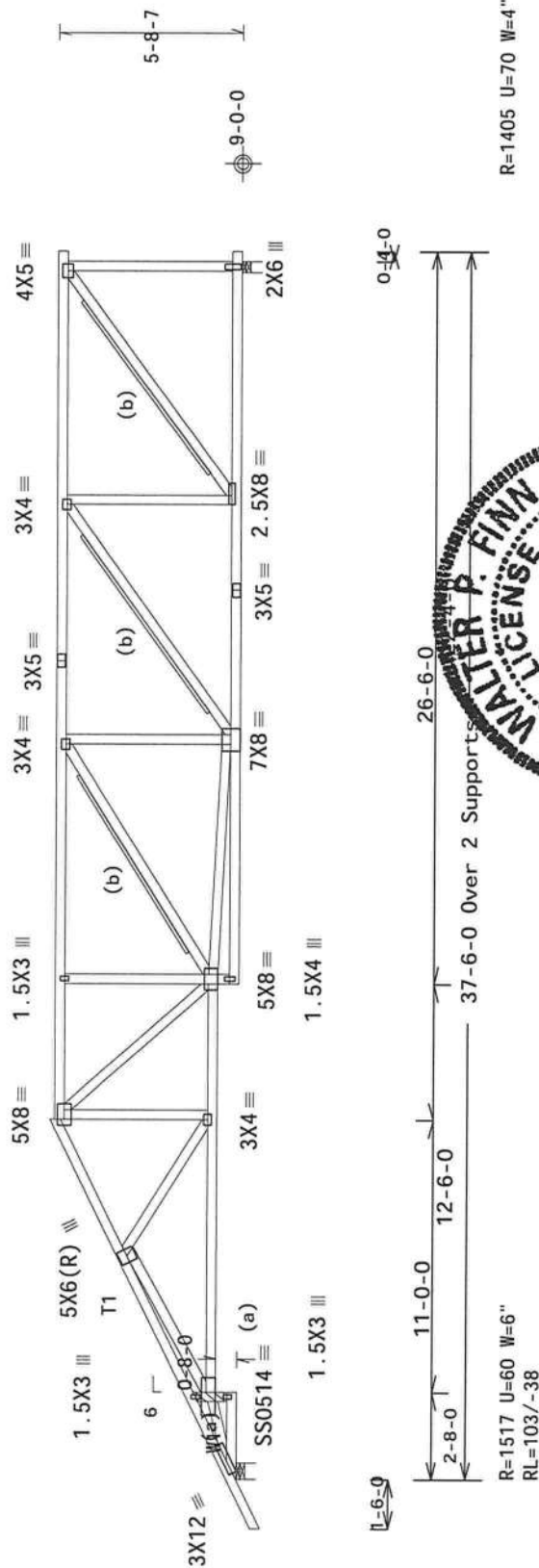
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(b) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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



R=1517 U=60 W=6"

RL=103/-38

PLT TYP. 18 Gauge HS, Wave

Design Crit: FBC2010Res/TPI-2007(STD)

FT/RT=10%(C

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

Tennesses require extreme care in fabricating, handling, shipping, installing, and bracing. To meet this requirement, the latest edition of BESS (Building Components Safety Information, by TPI and WTCIA) has been revised to include new practices for erecting and bracing temporary bracing poles. The following are some of the items noted otherwise. Top chord shall have permanent bracing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have bracing installed per BESS sections B3, B7 or B10, as applicable.

ITB 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 or erection of the truss. The truss is designed to be installed in the position as shown above and on the Joint Details, unless noted otherwise. Refer to page 160A-7 for more information on this truss. This job's drawing or cover page listing this design. The suitability and use of this design for any structure is the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: general notes page: ITB-BCC: www.itwbcg.com; TPI: www.tpiinst.org; WTCA: www.sleicindustry.com.

10.03.17 020919 01Y1

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FLORIDA



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03/14/2013

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FL/-/5/-/-/R/-/
Scale = 1875"/Ft.

TC		20	0	PSE	PFF	P407	C7300
Scale = 1000 g/L							

IC LL	20.0 PSF	REF R487-- 6/200
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TC DL	7.0 PSF	DATE	03/14/13
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BC DI	10 0 PSE	DPW	HCUSD487-12072001
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DC DL	10.0 F3F	DRW HCUSR487 13073001
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BC LL	0.0 PSF	HC-ENG JB/WPF
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3	3	3
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7	7	7
8	8	8
9	9	9
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98	98	98
99	99	99
100	100	100

TOT.LD.	37.0	PSF	SFON-	66897
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[illegible]

DUR. FAC.	1.25
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Top	chord	2x4	SP_#1	12A
Bot	chord	2x4	SP_#1	12A
	Webs	2x4	SP_#3	12A

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

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

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

Right cantilever is exposed to wind

Right end vertical not exposed to wind pressure.

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(c) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

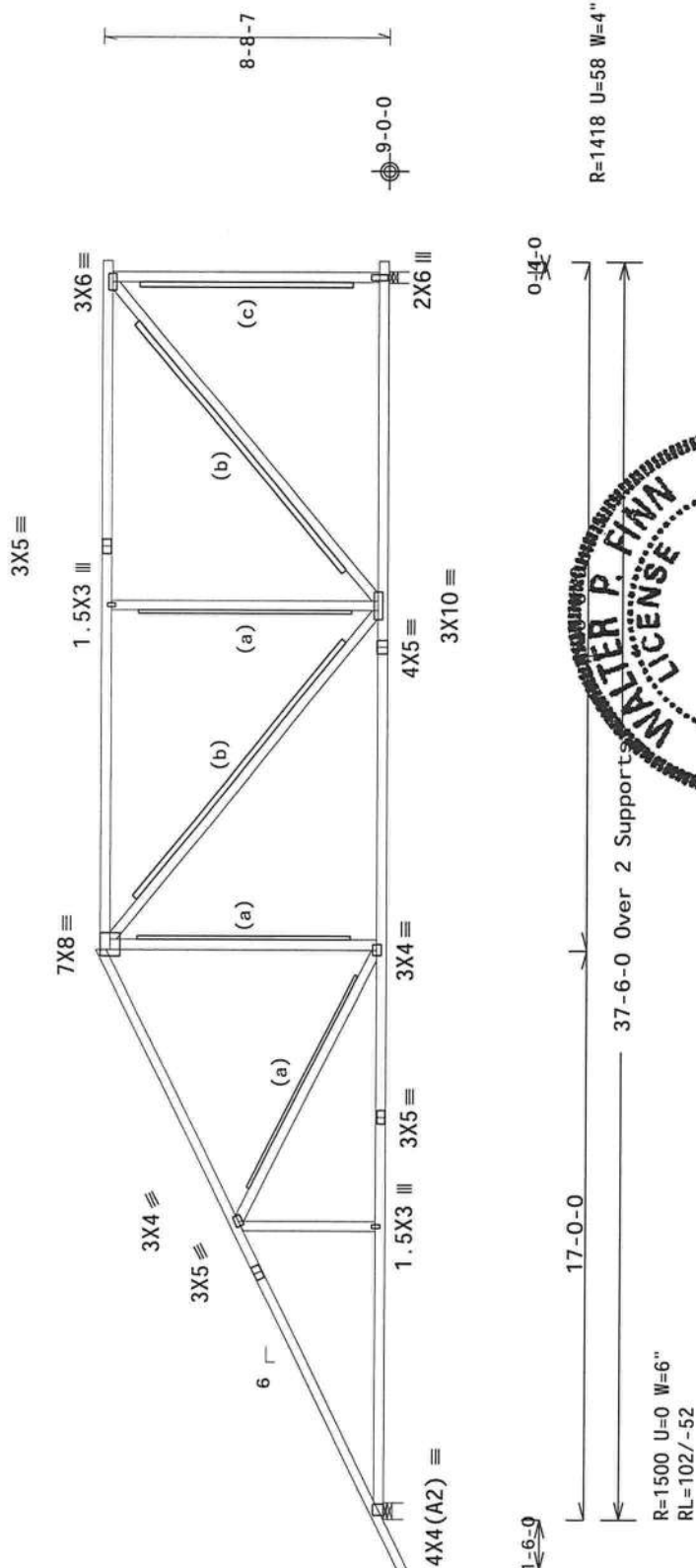
(b) 2x6 #3 or better "T" brace. 80% length of web member. Attach with (6d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=10%(0%)/0(0)FL/-/5/-/-/R/-
Scale = .1875"/Ft.

PLT TYP. Wave

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

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

*****IMPORTANT*****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following notes and drawings to follow the latest edition of BCSC (Building Components Safety Information, by IFI and MICA) for a complete listing of all applicable provisions. The following provisions are primary bracing for this design. All other provisions of the BCSC must be followed. The following provisions are secondary bracing. All provisions of the BCSC must be followed. The following provisions are lateral restraint or end bracing. All provisions of the BCSC must be followed. The following provisions are applicable.

ITW Building Components Group Inc. (ITWBCC) shall be responsible for any deviation from this design or specification. ITWBCC shall be responsible for obtaining shipping, installation & handling instructions from ANSI/TPI-1 standard drawings. A seal on this drawing certifies that all details, unless noted otherwise. Refer to drawings 100A-Z for standard plate positions. Indicates acceptance of professional engineering 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/TPI-1 Sec. 2. For more information see: www.tpi.org
General notes: plate: ITWBCC; web: itwbcc.com; TPI : www.tpinet.org; WTCA : www.sbcindustries.com;

ALPINE

TW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

03/14/2013

JREF- 1U1J487 701

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H19AM 37'6" Stepdown Hip)

Top chord	2x4	SP_#1_12A
Bot chord	2x4	SP_#1_12A
Webbs	2x4	SP_#3_12A

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

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

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

Right cantilever is exposed to wind

Right end vertical not exposed to wind pressure.

(b) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

(a) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 6d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

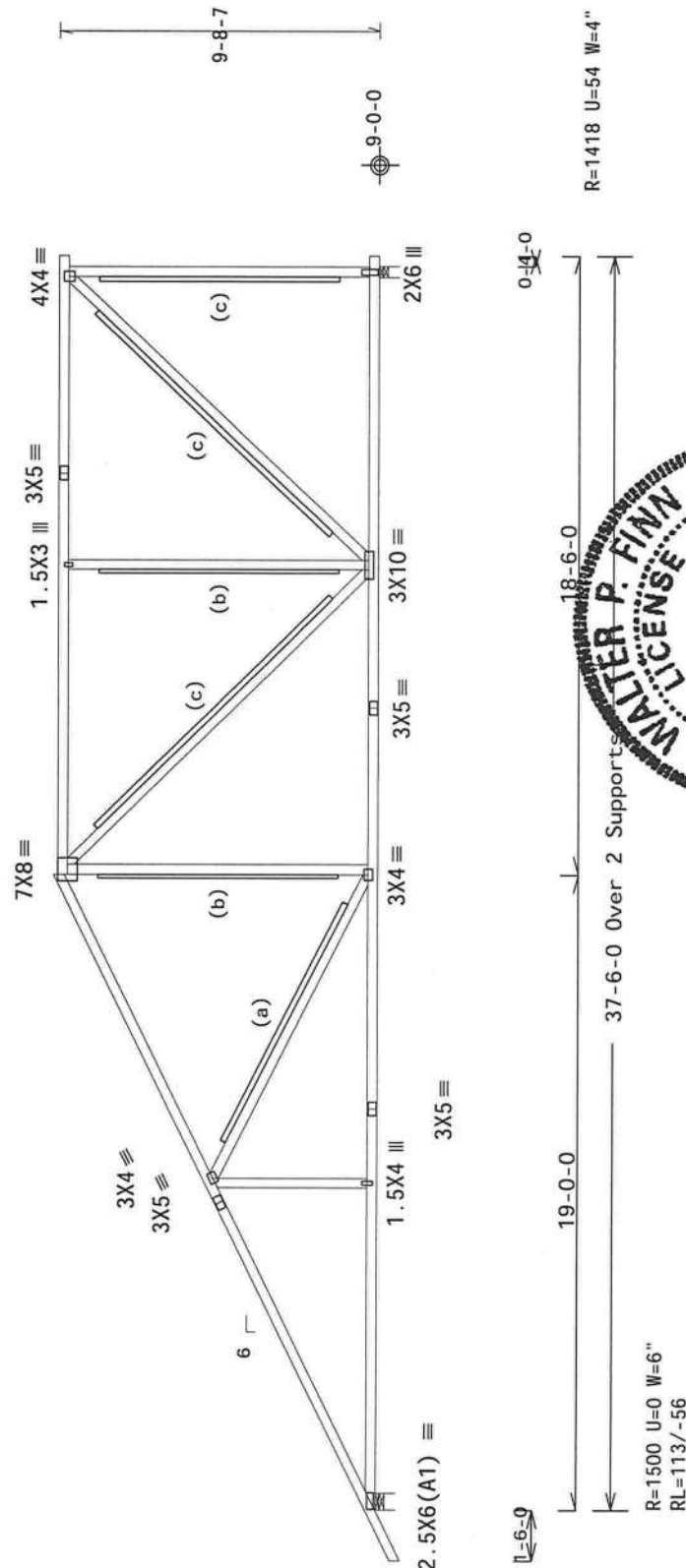
(c) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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

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



Design Crit.: EBC2010Bos/ID1 2007 (STP)

FL/-/5/-/-/R/-
Scale = .1875"/Ft.

PLT TYP.: Wave

..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. Follow the instructions of the truss manufacturer and the Building Component Safety Information, by TPI and WICA. The following practices are to be followed:

- Trusses are to be properly braced and supported.
- Trusses are to be properly attached structurally.
- Trusses shall have a properly attached rigid ceiling.
- Trusses shall have bracing installed per permanent lateral bracing details shown for permanent lateral bracing sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (TWBCG) shall be responsible for any deviation from this drawing or specification. The user of this drawing or specification warrants that it will not be used for any failure to build the truss in conformity with ANSI/TPI 1-1987. It is the responsibility of the fabricator to check all details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. 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 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; ITW-BGC; www.itwbcg.com; TPI: www.tpiinc.org; TWCA: www.sbcindustry.com;

ALPINE

TW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

03/14/2013

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 12546
J. M. Smith

TC LL	20.0	PSF	REF R487-- 67203
TC DL	7.0	PSF	DATE 03/14/13
BC DL	10.0	PSF	DRW HCUR487 13073004
BC LL	0.0	PSF	HC-ENG JB/WPF
TOT.LD.	37.0	PSF	SEQN- 66927
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1U0J487 Z01

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H9AM 37'6" Stepdown Hip)

Top	chord	2x4	SP_#1	12A
Bot	chord	2x4	SP_#1	12A
	webs	2x4	SP_#3	12A

Webs 2x4 SP #3 12A :W1, W2, W7 2x4 SP #1 12A:

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

Right cantilever is exposed to wind

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

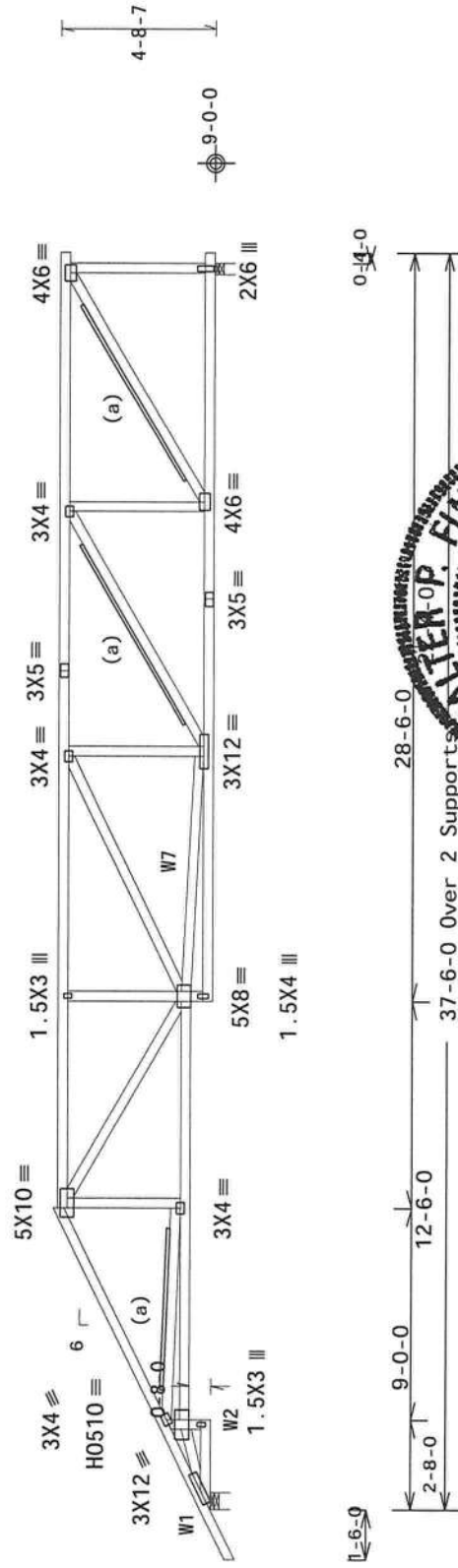
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf, GCpl (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

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



R=1517 U=64 W=6"
RL=86/-34

R=1405 U=68 W=4"

PLT TYP. 20 Gauge HS, Wave

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

FL/-/5/-/-/R/-/ - Scale = .1875"/Ft.

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

[illegible]

ITW Building Components Group Inc. (ITWBCC) shall not be responsible for any deviation from this design or specification which could build into cracks in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of truss members otherwise. Refer to drawings 160A-2 for standard plate positioning. A note on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This Job's general notes page; ITW-BCC; www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindus.com

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

JREF- 1UJ487 Z01

JG 24.0"

S

...sbc industry

www.wtca.org

TPI : www.tpi.it

www.itwbcg

For more information, visit www.itsaero.org

general
ICC: www

278 33044

FL CO

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H13AM 37'6" Stepdown Hip)

Top chord 2x4 SP_#1_12A :T1 2x4 SP M-30:
Bot chord 2x4 SP_#1_12A :B2 2x4 SP M-30:
Webs 2x4 SP_#3_12A :W1, W2 2x4 SP_#1_12A:

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

Right cantilever is exposed to wind

(a) 1x4 #3SR8 SPF-S or better "I" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

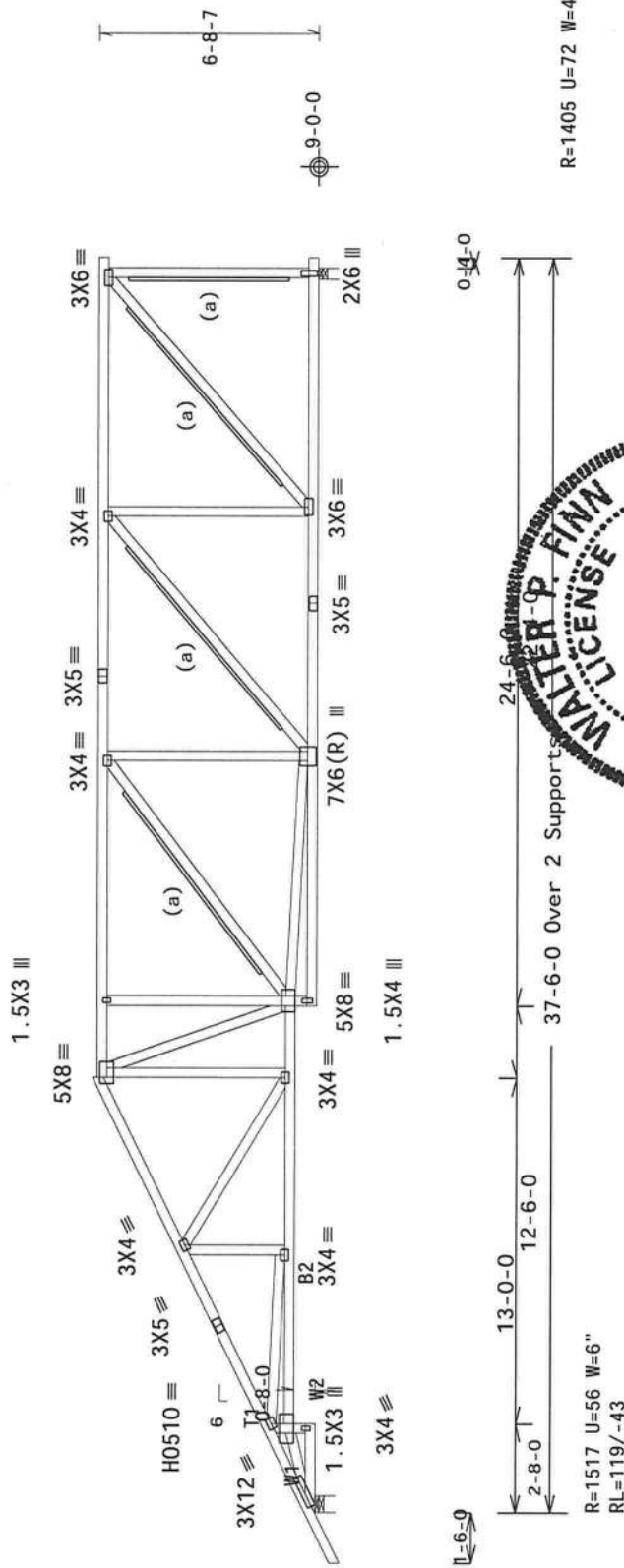
120 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

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



PLT TYP. 20 Gauge HS, Wave

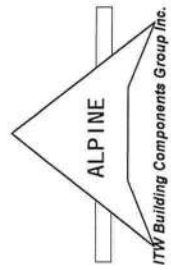
Design Crit: FBC2010Res/TPI-2007(ST) FT/RT=10%(0%)/0(0)

FL/-5/-/-/R/- Scale = .1875"/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 latest edition of BCSI (Building Component Safety Information, by TPI and WTC) for practices prior to performing these functions. Installers shall provide temporary bracing per BCSI sections 83, 87 or B10, as applicable. Locations above for temporary lateral restraint on shall have bracing installed per BCSI sections 83, 87 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for 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 160A-Z for standard plate positions. A seal on this drawing or cover page listing this design shown. The suitability and use of this design for any structure is the responsibility of the user. The user shall obtain the necessary permits and approvals for this job's use. General notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpi.net.org; WTC: www.structure.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	67207
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073007
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	37.0 PSF	SEQN-	66905	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487_Z01	

Top	chord	2x4	SP_#1_12A
Bot	chord	2x4	SP_#1_12A
	Webs	2x4	SP_#3_12A

Negative reaction(s) of -213# MAX. (See below) from a non-wind load case requires uplift connection.

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

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

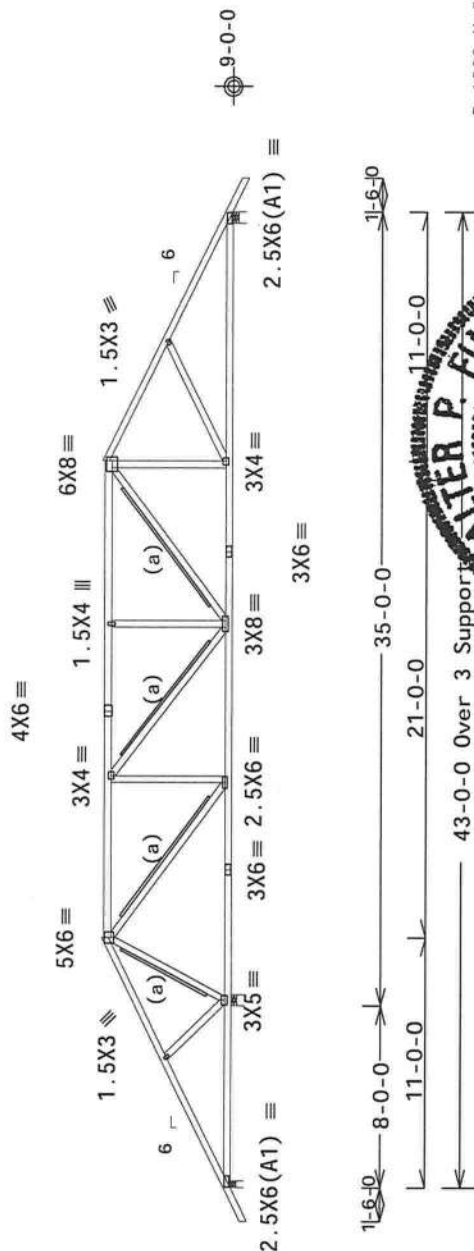
WFRS loads based on trusses located at least 7.50 ft. from roof edge.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 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 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=219/-214 U=35 W=3.5"
RL=109/-109

R=2109 U=86 W=6"

PLT TYP. Wave

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

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

IMPORTANT

Trusses require extreme care in fabricating, hoisting, shipping, installing, anchoring, bracing, and erecting. The following information is provided to help you follow the latest edition of BCSP (Building Component Safety Information, by TPI and WIGA) for the installation of trusses. The information is provided for your reference only. The manufacturer's instructions should be followed prior to performing these functions. Installers shall provide temporary bracing for the trusses as noted otherwise, top chord shall have property attached structural sheathing and bottom chord shall have property attached structural sheathing and lateral restraint of the truss shall have bracing installed per BCSP, sections BCS1, BCS2, BCS3, BCS4, BCS5, BCS6, BCS7, BCS8, BCS9, BCS10, BCS11, BCS12, BCS13, BCS14, BCS15, BCS16, BCS17, BCS18, BCS19, BCS20, BCS21, BCS22, BCS23, BCS24, BCS25, BCS26, BCS27, BCS28, BCS29, BCS30, BCS31, BCS32, BCS33, BCS34, BCS35, BCS36, BCS37, BCS38, BCS39, BCS40, BCS41, BCS42, BCS43, BCS44, BCS45, BCS46, BCS47, BCS48, BCS49, BCS50, BCS51, BCS52, BCS53, BCS54, BCS55, BCS56, BCS57, BCS58, BCS59, BCS60, BCS61, BCS62, BCS63, BCS64, BCS65, BCS66, BCS67, BCS68, BCS69, BCS70, BCS71, BCS72, BCS73, BCS74, BCS75, BCS76, BCS77, BCS78, BCS79, BCS80, BCS81, BCS82, BCS83, BCS84, BCS85, BCS86, BCS87, BCS88, BCS89, BCS90, BCS91, BCS92, BCS93, BCS94, BCS95, BCS96, BCS97, BCS98, BCS99, BCS100, BCS101, BCS102, 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ALPINE

TW Building Components Group Inc.

mes City, FL 33844

FL COA #0 278

03 11 2009 9 PM
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

FL/-/5/-/-/R/-/
Scale = 125"/Ft

C LL	20.0 PSF	REF R487 -- 67208
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7.0 PSF	DATE	03/14/13
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10.0 PSF	DRW	HCUSR487	13073008
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HC LL	0.0 PSF	HC-ENG JB/WPF
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OT.LD.	37.0 PSF	SEON-	66849
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OUR FAC.	1.25	00010
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PACING	24 0"	IRFF- 11111487 701
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(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H13A 43' Stepped Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

120 mph wind, 15.00 ft mean hgt. ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

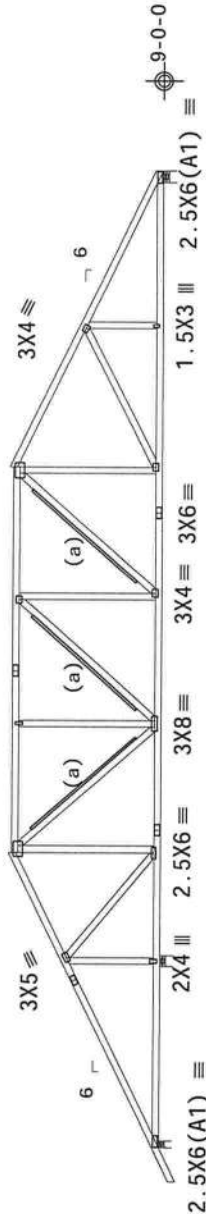
Wind loads and reactions based on MWFRS with additional C&C member design.

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.

3X6 ≡

3X5 ≡ 5X8 ≡ 1.5X4 ≡ 3X4 ≡ 5X8 ≡



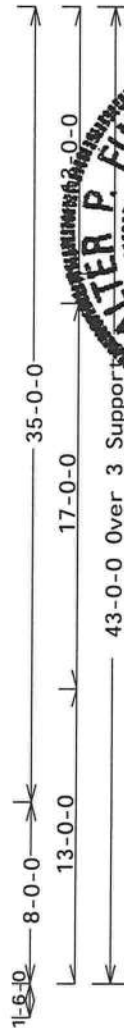
2.5X6(A1) ≡

3X6 ≡

3X4 ≡

1.5X3 ≡

2.5X6(A1) ≡



R=1865 U=65 W=6"

R=1271 U=48 W=6"

R=351 U=21 W=3.5"
RL=110/-117

PLT TYP. Wave

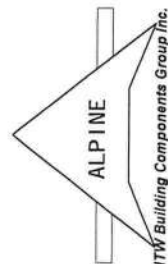
Design Crit: FBC2010Res/TP1-2007(STB)
FT/RT=10%(0%)/0(0)

FL/-/5/-/-/R/- Scale = .125"/Ft.

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WTA) for practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 accordance with this design. ITWBCG shall not be responsible for any failure to build the truss in accordance with this design. ITWBCG shall not be responsible for any failure to build the truss in accordance with this design. ITWBCG shall not be responsible for any failure to build the truss in accordance with this design.



TC LL	20.0 PSF	REF	R487 --	67209
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073009
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	37.0 PSF	SEQN-	66856	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487_Z01	

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H15A 40' Stepdown Hip)

Top chord	2x4	SP_#1	12A
Bot chord	2x4	SP_#1	12A
Webbs	2x4	SP_#3	12A

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

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

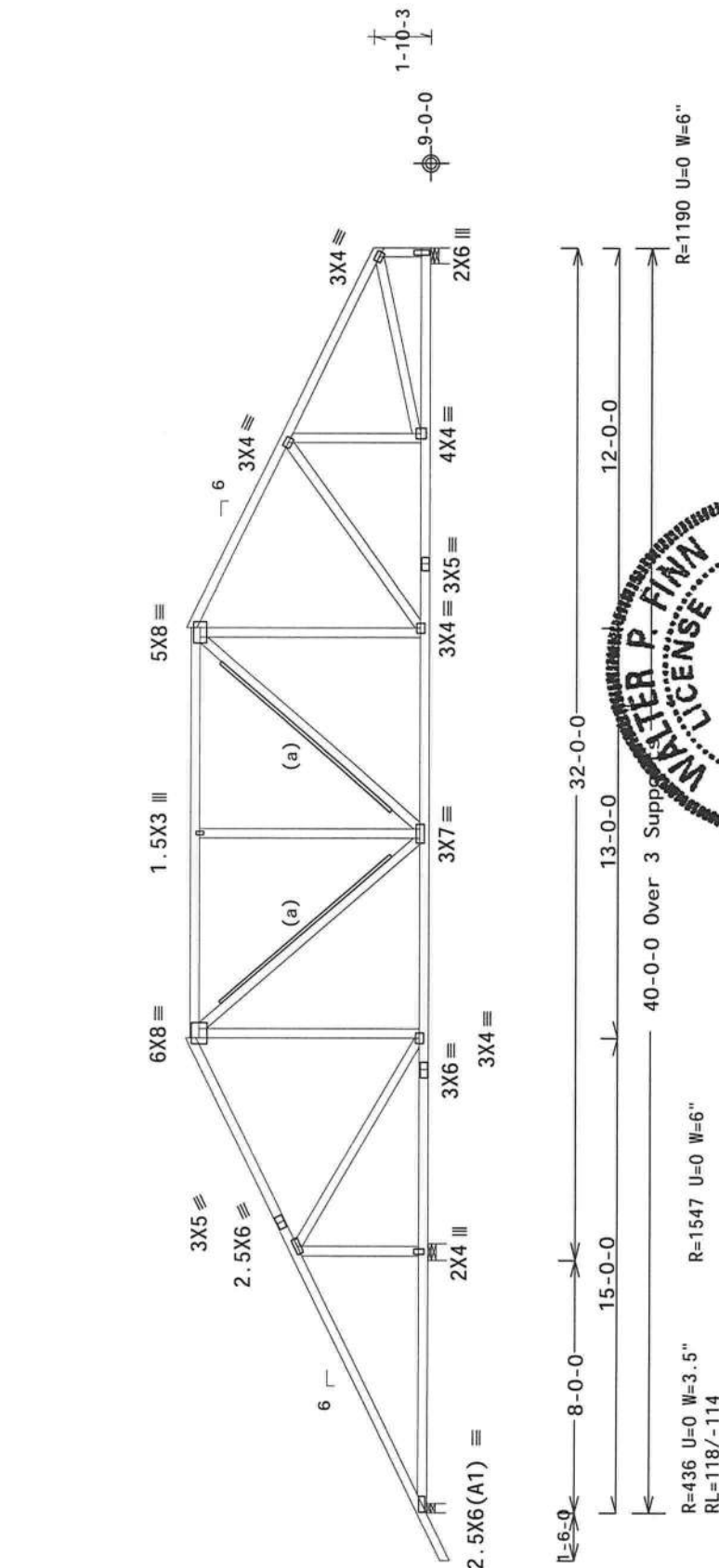
WWFRS loads based on trusses located at least 15.00 ft. from roof edge.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf, GCp1(+/-)=0.18

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

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

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



Design Crit: FBC2010Res/TPI-2007(Std)

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

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

IMPORTANT: FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Before installation, the latest edition of BCSP (Building Component Safety Information, by TPI and WITCA) for Trusses shall be read and understood. Truss installers shall provide temporary bracing per the instructions prior to performing these functions. Truss installers shall provide permanent bracing per the instructions after the trusses are installed. Trusses shall be installed and braced in accordance with the instructions shown for permanent bracing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent bracing shall have bracing installed per BCSP sections B37 or B10, as applicable.

ITW Building Components Group Inc. (TWBCG) shall not be responsible for any deviation from this document to build the Truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or erection of the Truss. The user of this document shall be responsible for obtaining the correct details, unless noted otherwise. Refer to drawings A804-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, TWBCG, and the name of the 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. TWBCG's web: www.itwbcg.com; TPI: www.tpiinc.org; WICA: www.sbcindus.com.

PLT TYP. Wave

$$EI \text{ -- } / - / 5 \text{ -- } / - / R \text{ -- } / -$$
$$\text{Scale} = 1875''/\text{Ft}$$

C II	20 0 PSE	REF	P487	67210
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DATE	REF	R487--	67Z10
2006 FEB 7			
2006 FEB 12			

C DL	7.0 PSF	DATE	03/14/13
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C DL	10.0 PSF	DRW	HCUSR487	13073010
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HC - ENG	IR /WIDE
0 0 PSE	

C L	U.O PSF	HC-ENG JB/WPF

OT.LD.	37.0 PSF	SEQN-	66860
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UR.FAC.	1.25
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PACING	24 0"	IDEE 11111407 701
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PACING	24.0	JREF-100J48/_Z01
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(13-0298--Doug Edgley Durham Res II -- Lake City, FL - H17A 40' Steepdown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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

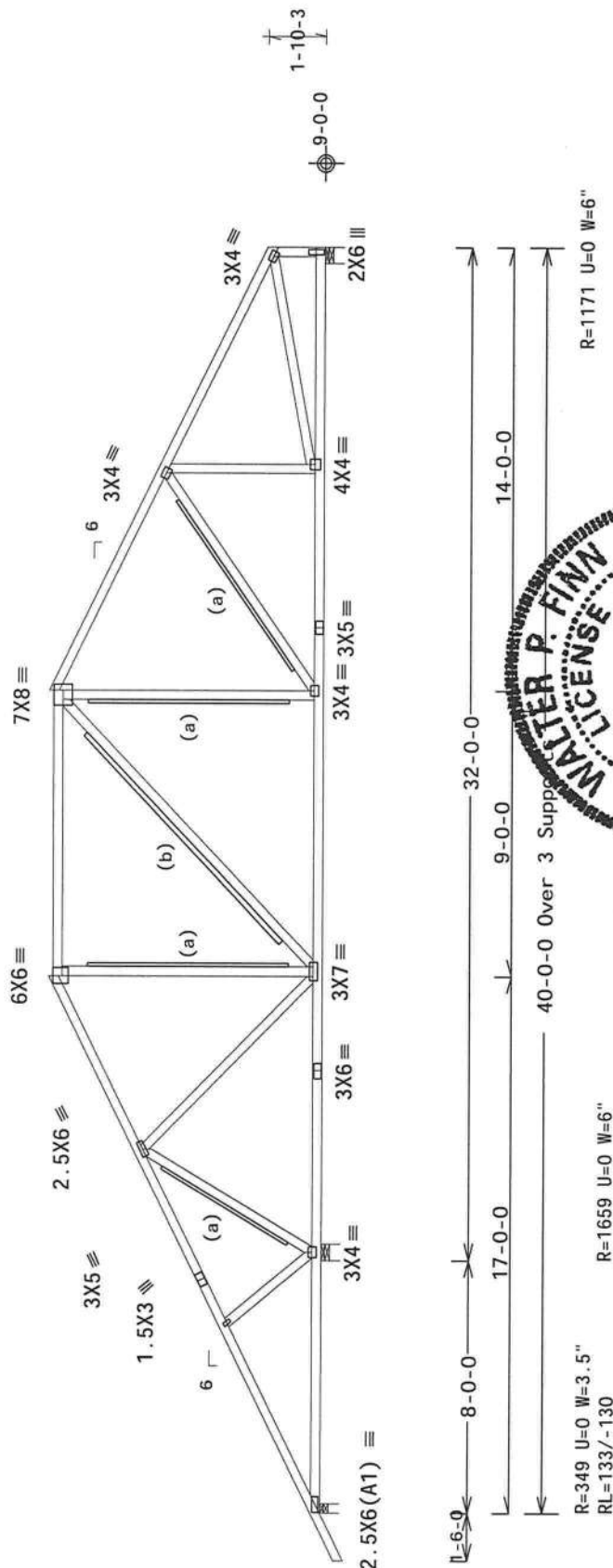
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

(b) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (S19)
FT/RT=10%(0%)/0(0)

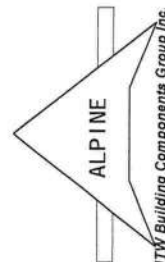
No. 22839
10.03.11 0909.19

FL/-5/-/-R/- Scale = .1875"/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. Follow the latest edition of BC51 (Building Component Safety Information, by TPI and WTCA) for practices prior to performing these functions. Installers shall provide temporary bracing per details noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BC51 sections B3, B7 or B10, as applicable.

ITW Building Components Group, Inc. (ITWBCG) shall be responsible for any deviation from this design. Any failure to build the truss in accordance with the design shall be the responsibility of the contractor. Details of trusses. Apply plates to each face of truss and position as shown above on the Job. 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. ITW-BCG: www.itwbcg.com, TPI: www.tpiinc.org, WTCA: www.structure.com, ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	67211
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073011
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	37.0 PSF	SEQN-	66864	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487_Z01	

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H19A 40' Stepdown Hip)

	Top	Bot	SP_#1_12A	SP_#1_12A	SP_#3_12A
	chord	chord	2x4	2x4	2x4
					Webbs

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

(b) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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

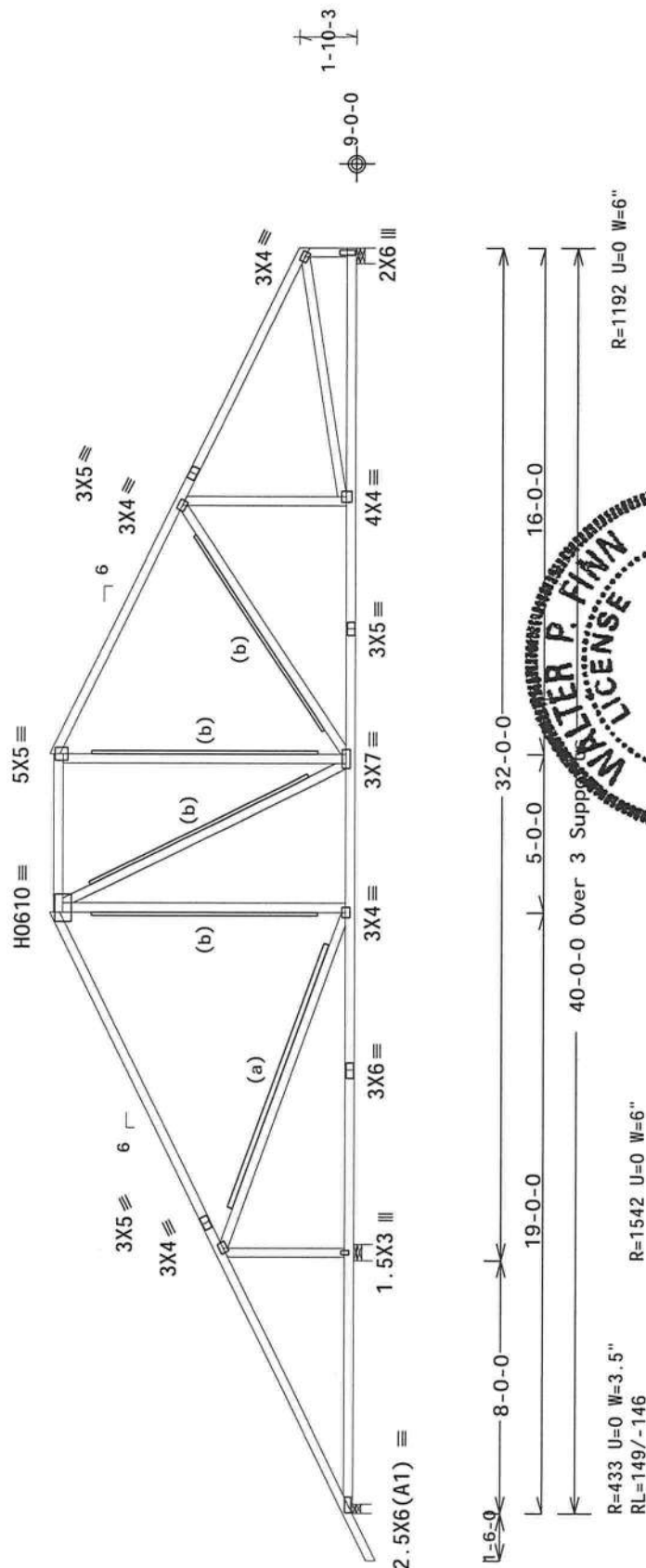
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

(a) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5" min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



R=433 U=0 W=3.5"
RL=149/-146

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2010Res/TPI-2007(ST
FT/RT=10%(0%)/0(0)) $\text{FI} / - / 5 / - / - / \text{R} / -$
Scale = 1875"/Ft+

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

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STATE OF

20.0 PSF	REF R487-- 67212
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Trusses require extreme care in fabricating, handling, shipping, installing and erecting. The user must follow the latest edition of BCST (Building Component Safety Information), by the Building Research Institute, Inc., for proper erection practices prior to performing these functions. Installers shall provide temporary bracing for the trusses unless noted otherwise. Top chord shall have properly attached structural sheathing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent bracing shall have bracing installed per BCST sections B3, B7 or B10, as applicable.

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TPI and WTCA) re
temporary bracing p
latching and bott
lateral restraint

7.0 PSF	DATE	03/14/13
10.0 PSF	DRW	HCUSR487 13073012

[illegible]

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above and on the
positions. A
nal engineering
design for any
information see:
bcindustry.com;

03/14/2013

HC-ENG JB/WPF	0.0 PSF
SEQN-	37.0 PSF
	1.25
IRREF-	24.0"
1U1J487	701

(13-0298--Doug Edgley Durham Res II -- Lake City, FL - H21A 37'6" Stepdown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A :B3 2x4 SP M-30:
Webs 2x4 SP_#3_12A

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

Right cantilever is exposed to wind

(b) 1x4 #3SR8 SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

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

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

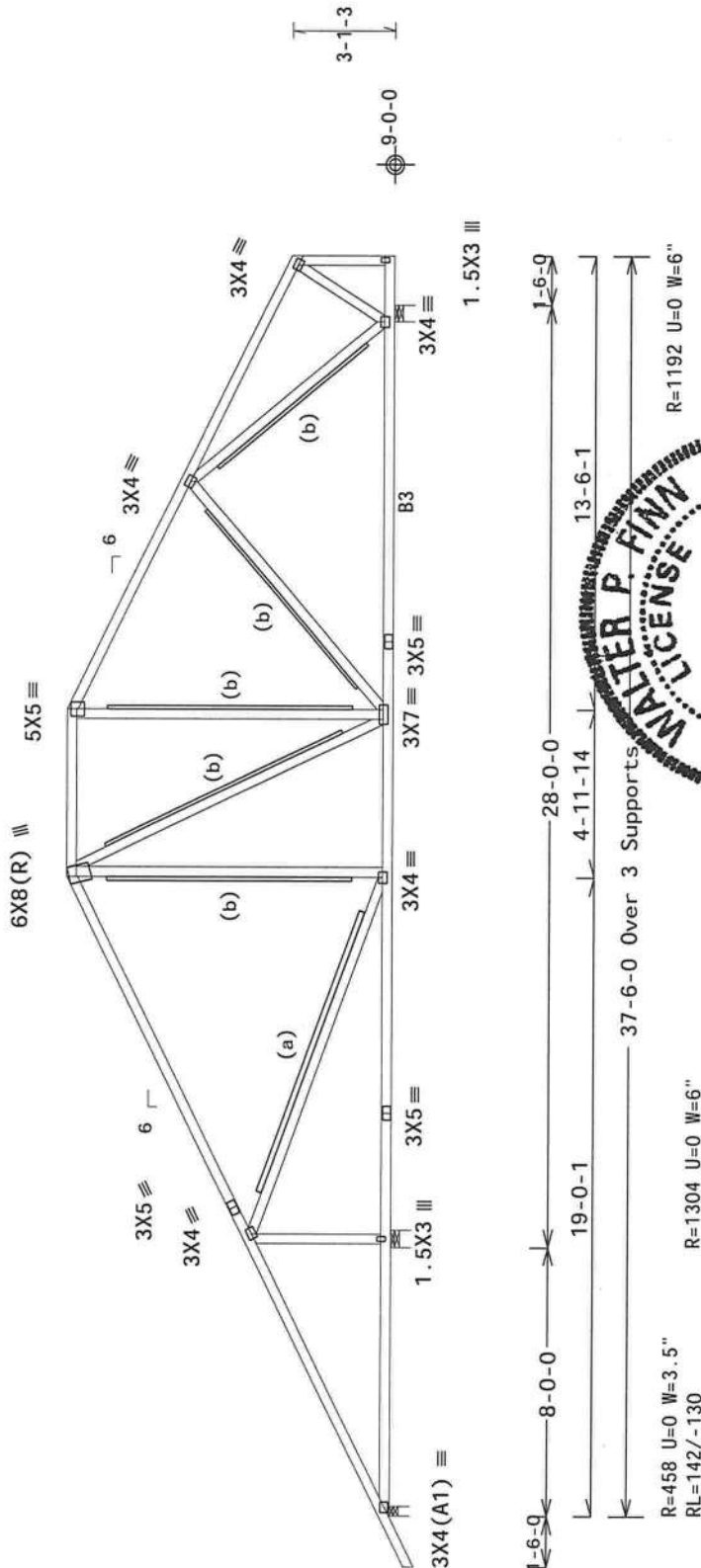
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



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

PLT TYP. Wave

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

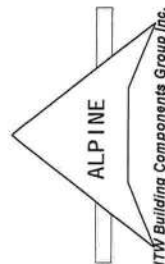
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

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 WCA) for details, unless noted otherwise. Truss installers shall provide temporary bracing per the BCSI manual. Truss installers shall have a properly attached structural sheathing and bottom chord 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 for any failure to build the truss in conformance with ANSI/TPI 1. Truss installers shall be responsible for the design and construction of the truss. Truss installers shall apply the design and construction details to each face of the truss and position as shown above and on the Joint 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 user. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com, TPI: www.tpiinc.org, WCA: www.wcaindustry.com, ICC: www.iccsafe.org

FL/-5/-/-R/- Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	67213
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073014
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.	37.0 PSF	SEQN-	65945	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UUJ487_Z01	



(13-029B--Doug Edgley Durham Res II -- Lake City, FL - H7A 43' Stepdown Hip Girdler)

Top chord 2x6 SP_SS_12A :T1 2x4 SP M-30:

:T5 2x4 SP #1_12A:

Bot chord 2x6 SP #1_Dense_12A :B3 2x6 SP_SS_12A:

Webs 2x4 SP_#3_12A :W4, W6, W10 2x4 SP_#1_12A:

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

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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.

Left cantilever is exposed to wind

(a) 2x8 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

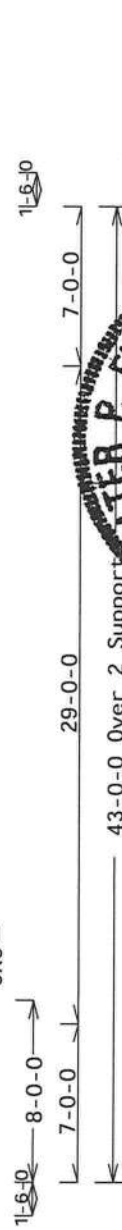
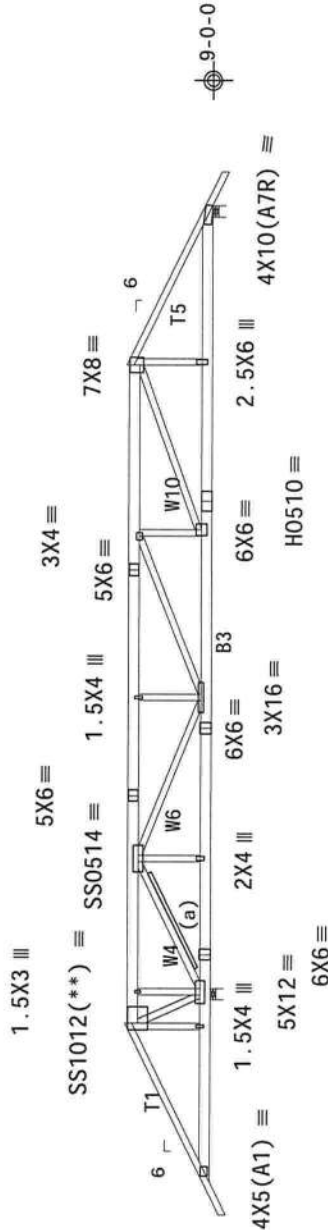
Bottom chord checked for 10.00 psf non-concurrent live load.

Special loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 56 pif at -1.50 to 56 pif at 7.00
TC- From 28 pif at 7.00 to 28 pif at 36.00
TC- From 56 pif at 36.00 to 56 pif at 44.50
BC- From 4 pif at -1.50 to 4 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 35.97
BC- From 20 pif at 35.97 to 20 pif at 43.00
BC- From 4 pif at 43.00 to 4 pif at 44.50
TC- 242.01 lb Conc. Load at 7.03, 35.97
TC- 167.95 lb Conc. Load at 9.06, 11.06, 13.06, 15.06
17.06, 19.06, 21.06, 23.94, 25.94, 27.94, 29.94, 31.94
33.94
BC- 443.53 lb Conc. Load at 7.03, 35.97
BC- 126.35 lb Conc. Load at 9.06, 11.06, 13.06, 15.06
17.06, 19.06, 21.06, 23.94, 25.94, 27.94, 29.94, 31.94
33.94

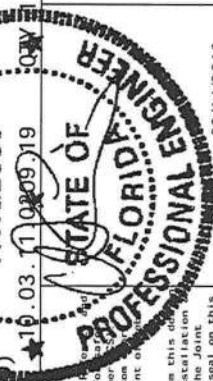
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



R=3039 U=197 W=6"

PLT TYP. 20 Gauge HS, 18 Gauge HS, Design Crit: FBC2010Res/TP1-2007(S19) FT/RT=10%(0%)/0(0)



FL/-/5/-/-/R/-	Scale = .125"/Ft.
TC LL	20.0 PSF
TC DL	7.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	37.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

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 WTC) for practices prior to performing these functions. Installers shall provide temporary bracing per the BCSI manual. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group, Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with the design. 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 responsibility solely for the design shown. The authority and use of this design for any structure is the responsibility of the Building Designer per ASCE/TP1 1 Sec.2. For more information see: This job's general notes page. ITW-BCSI: www.itwbcg.com; TPI: www.tpiinc.org; WTC: www.bcsiindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

	Top chord	2x4	SP_#1_12A
	Bot chord	2x4	SP_#1_12A
	Webbs	2x4	SP_#3_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.

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.

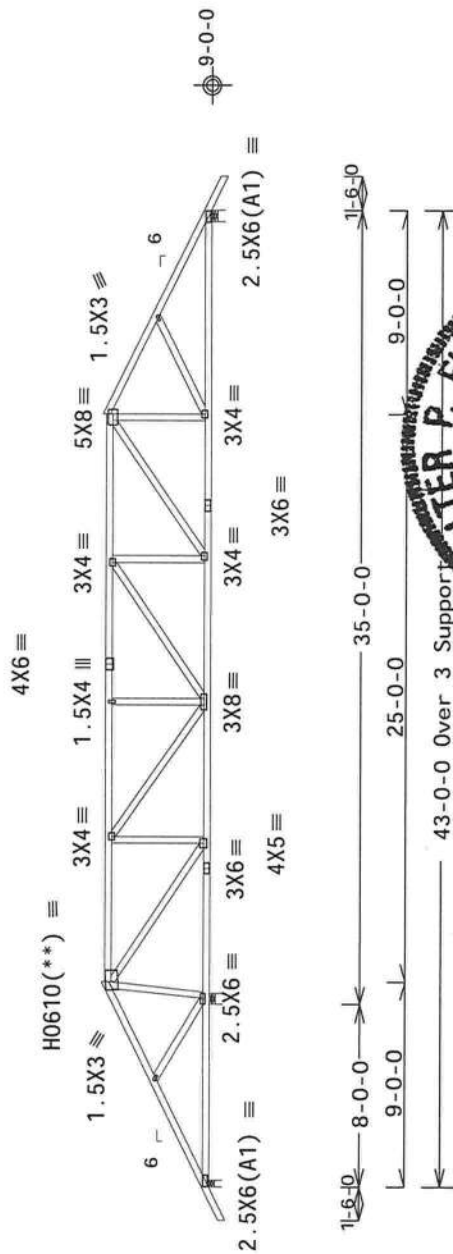
**** Negative reaction(s) of -400# MAX. (See below) from a non-wind load case requires uplift connection.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 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 MWFRS with additional C&C member design.

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



R=121/-400 U=122 W=3.5"
RL=94/-94

R=2351 11-102 W-6"

R=1276 U=58 W=6"

PLT TYP. 20 Gauge HS,Wave

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

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 12569
10/03 to 02/09/19

FL/-5/-/-/R/-	Scale = .125"/Ft.
TC LL 20.0 PSF	REF R487 -- 67215
TC DL 7.0 PSF	DATE 03/14/13
BC DL 10.0 PSF	DRW HCUSR487 13073013
BC LL 0.0 PSF	HC-ENG JB/WPF
TOT.LD. 37.0 PSF	SEQN- 66844
DUR.FAC. 1.25	
SPACING 24.0"	JREF- 1UUJ487 Z01

03/14/2013

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 responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TP1 1 Sec.2. For more information see: This job's general notes, page: 1TW-BGG; www.ltwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; www.160a-z.com

ALPINE

UTW Building Components Group Inc.

Haines City, FL 33844

FL COA #0278

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

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

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

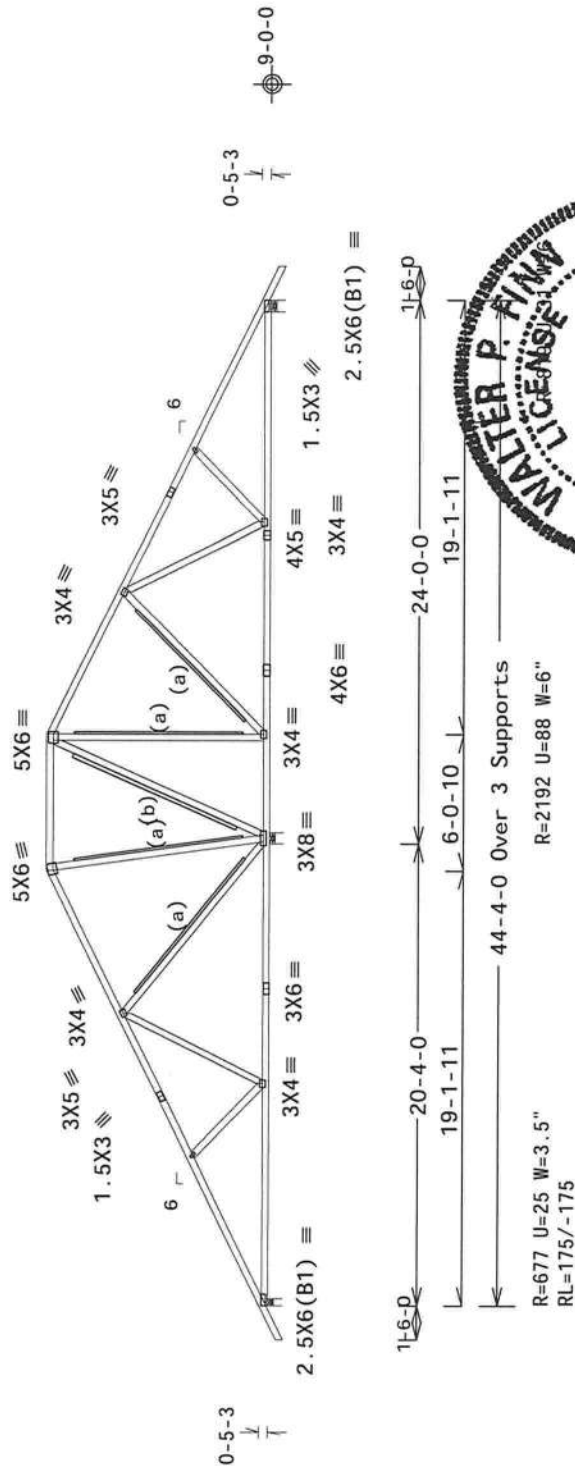
(b) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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.

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

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



PLT TYP. Wave

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

FL/-5/-/-/R/- Scale = .125"/Ft.

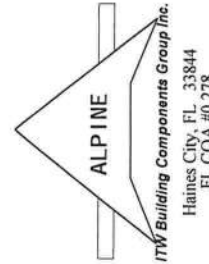
TC LL	20.0 PSF	REF	R487--	67216
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073019
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.	37.0 PSF	SEQN-	65910	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487_Z01	



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) for practices prior to performing these functions. Installers shall provide temporary bracing per details noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group, Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in accordance with ANSI/APA Truss Standard. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TP1-1 Sec.2. For more information see: This Job's general notes page. ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



(13-029B--Doug Edgley Durham Res II -- Lake City, FL - B1 44'2" Stepdown Hip)

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. GCp(±)=0.18

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

(b) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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

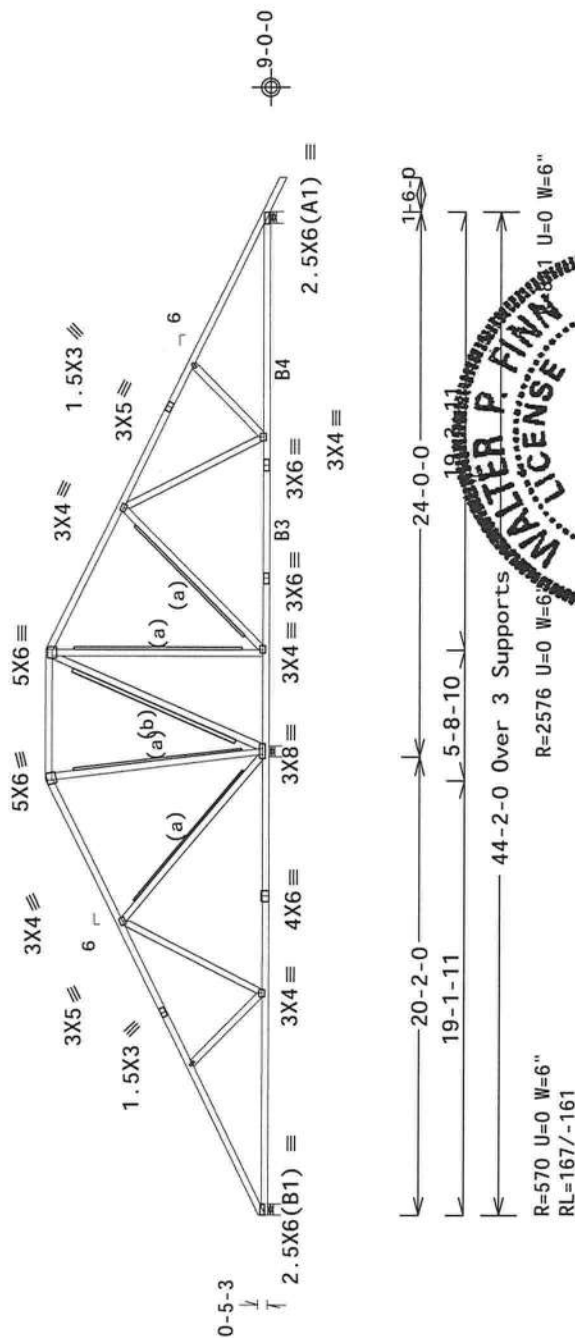
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.) nails @ 6" OC.

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.

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

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

PLT TYP: Wave

FL/-/5/-/-/R/-
Scale = .125"/Ft.

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

Tresses require extreme care in fabricating, handling, shipping, installing and bracing. Read and follow the instructions for the BGS[®] (Bearing Gasket System) for TPI and WICA[®] for TPI. The following instructions are for the BGS[®] for TPI. Installation instructions for WICA[®] for TPI are available in the WICA[®] for TPI literature. If the tresser has a top chord, 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 or bracing shall have bracing installed per BGS[®] 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 conformity with ANSI/TPI. The truss designer shall be responsible for the proper spacing of trusses, unless otherwise noted. 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 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, ITW-BCG web: www.itwbcg.com, TPI: www.tpi.net; ITWBCG web: www.itwbcg.com.

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 12586
12/1/94

03/14/2013

TC LL	20.0 PSF	REF	R487--	67217
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073020
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT. LD.	37.0 PSF	SEQN-	65914	
DUR. FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487	Z01

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

	Top	chord	2x4	SP_#1	12A
	Bot	chord	2x4	SP_#1	12A
		Webs	2x4	SP_#3	12A

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

Left end vertical not exposed to wind pressure.

(b) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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

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

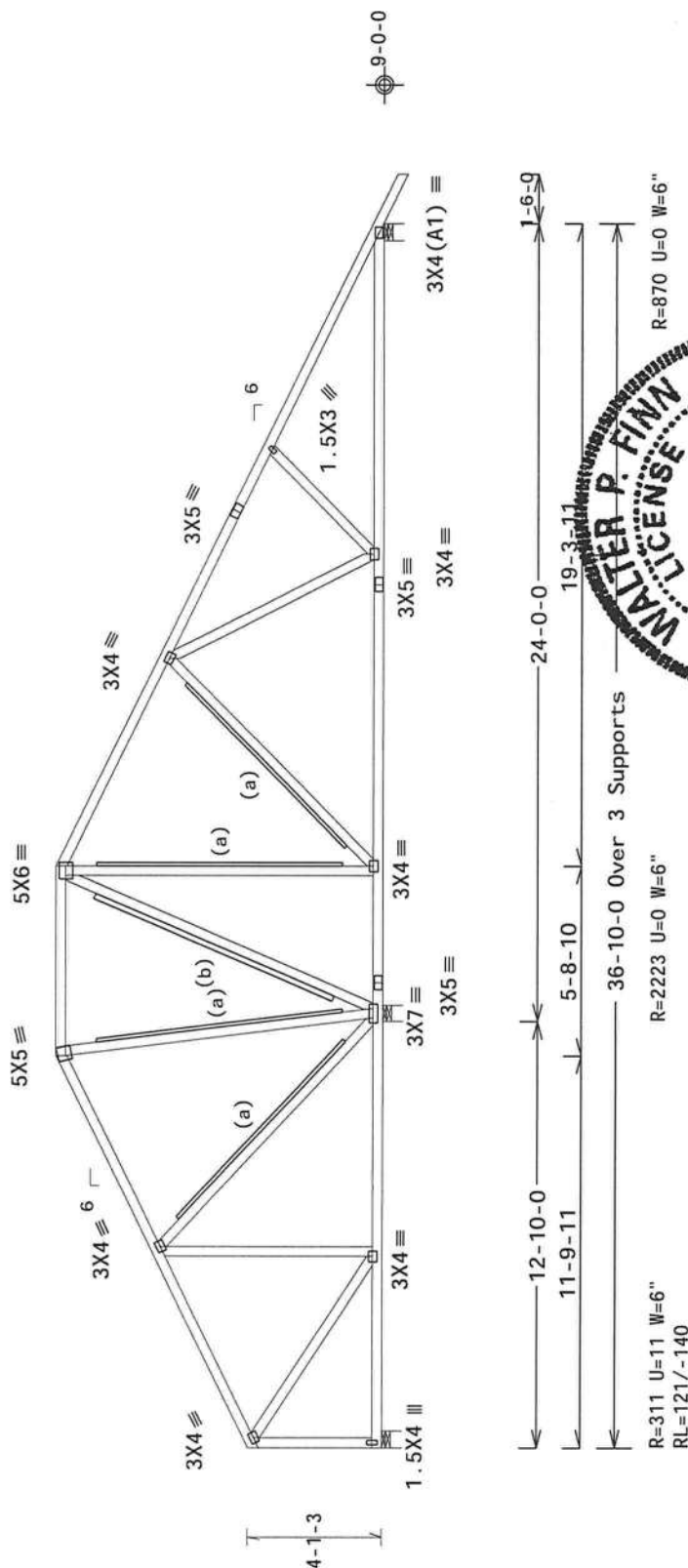
Wind loads and reactions based on MWFRS with additional C&C member design.

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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.

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



No. 22839

Design Crit: FRC2010Res/TPI-2007(STB)

PLT TYP. Wave

design criteria: FBCZ010KES/100
FT/RT=10% (0.10)

16.03.2019

Scale = 1875"/Ft+

****WARNING**** 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. The latest edition of BCST (Building Component Safety Information, by TPI and WCA) provides the most current and complete information on proper truss practices prior to performing these functions. Installers shall provide temporary bracing for all trusses. Trusses shall be properly secured to structural sheathing and bottom chord bracing. Trusses shall be braced in accordance with the lateral bracing system. Trusses shall have bracing installed per BCST sections B3, B7 or B8, as applicable.

ITW Building Components Group Inc. (TWBCG) shall not be responsible for any deviation from this drawing or specification without written approval from ITW Building Components Group Inc. for reworking, shipping, installation, or other details, unless noted otherwise. Apply plates to each race of 160A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page; ITW-BUCG: www.itwbucg.com; TPI: www.tpinet.org; WICA: www.sbc-industry.com;

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

03/14/2013

JREF- 1UJ487 Z01

PACING 24.0"

is job's

For more information on the building designer per ANSI/APT-1 Sec. 2.1, general notes page: ITW-BCG; www.itwbcg.com; TPI: www.tpinst.org; WICA: www.wica.org
ICC: www.iccsafe.org

Haines City, FL 33844
FL COA #0 278

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - C 24' Common)

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

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

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

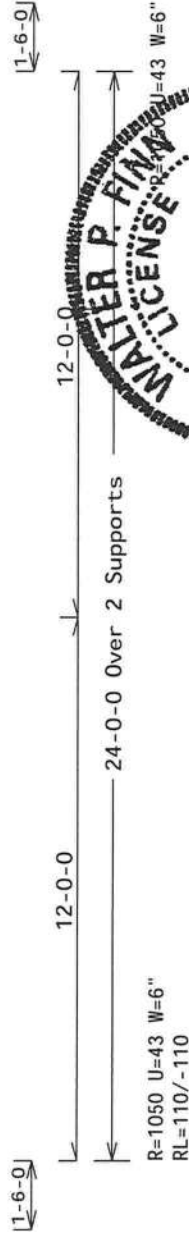
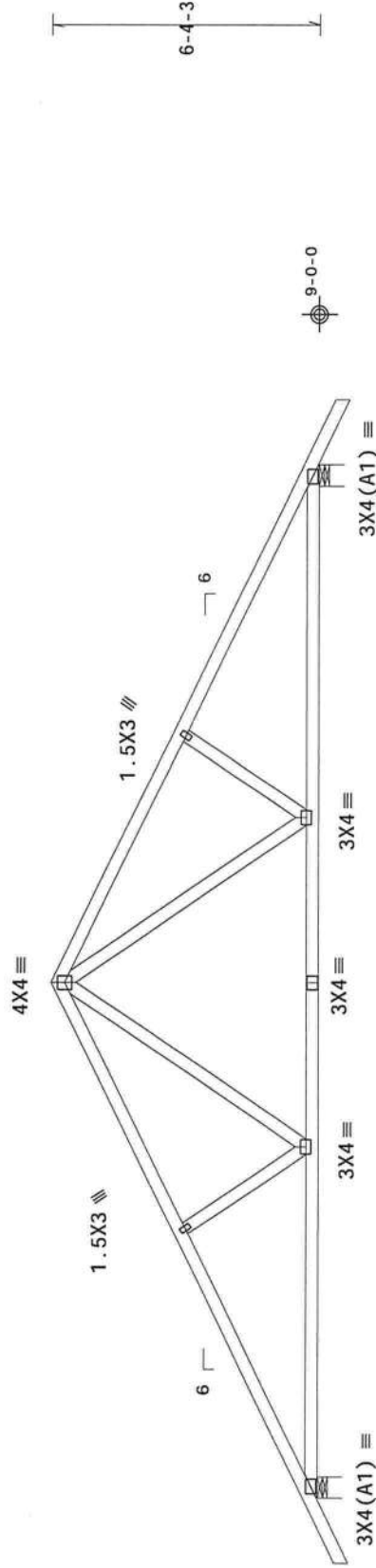
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Truss passed check for 20 psf additional bottom chord live load in areas with 42'-high x 24'-wide clearance.

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



R=1050 U=43 W=6"
RL=110/-110

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

No. 22839
0.03.14.0409.19

Scale = .25"/Ft.
FL/-5/-/-/R/-

ALPINE 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 the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for details. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for 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 100A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page; ITW-BCG; www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org 03/14/2013	TC LL	20.0 PSF	REF	R487 -- 67220
		TC DL	7.0 PSF	DATE	03/14/13
		BC DL	10.0 PSF	DRW	HCUSR487 13073015
		BC LL	0.0 PSF	HC-ENG	DF/DF
		TOT. LD.	37.0 PSF	SEQN-	296321
DUR. FAC.	1.25				
SPACING	24.0"	JREF -	1UUJ487_Z01		

(13-0298--Doug Edgley Durham Res II -- Lake City, FL - CDG 24' Gable)

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

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

:Stack Chord SC1 2x4 SP #1_12A::Stack Chord SC2 2x4 SP #1_12A:

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

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

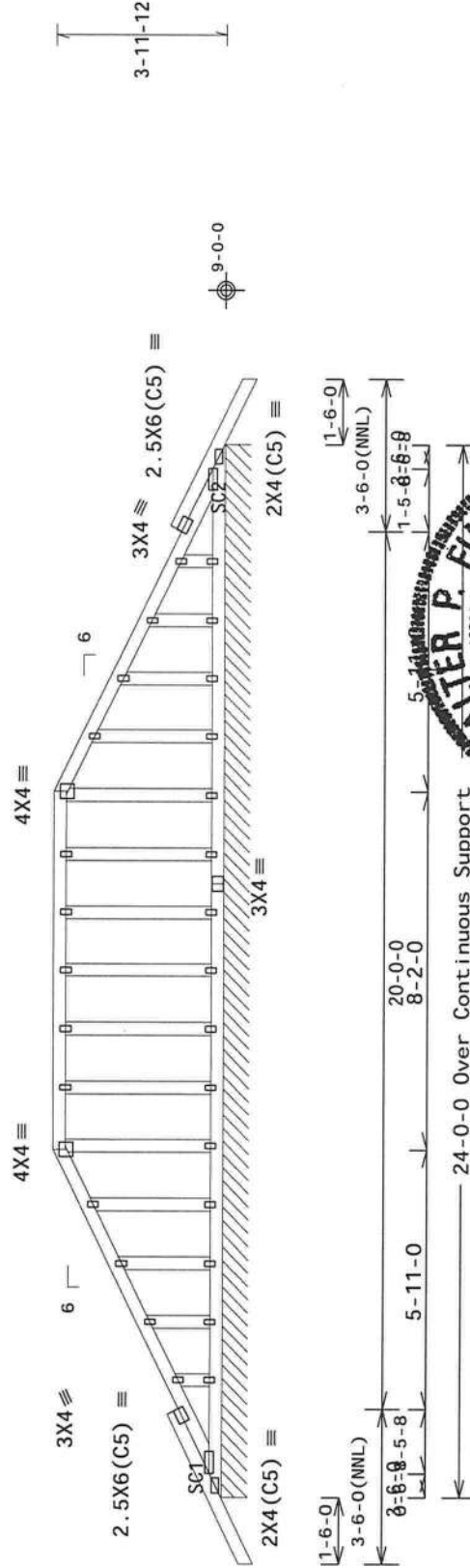
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design. See DWGS A12015ENC100212, GBLLET100212, & GABRST100212 for more requirements.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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



R=164 PLF U=4 PLF W=24-0-0
RL=3/-3 PLF

Note: All Plates Are 1.5X3 Except As Shown.

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

PLT TYP. Wave

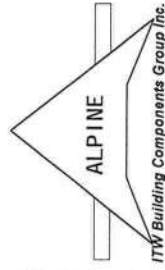
★ 03/11/2009 19

FL/-5/-/-/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, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WTA) for instructions prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for 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 160A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing. The responsibility and use of this design for any structure is the responsibility of the building owner. ITWBCG does not warrant the design. This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpi.net; WTA: www.wtaindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	67221
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCSR487	13073013
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	37.0 PSF	SEQN-	47638	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UUJ487_Z01	

(13-0298--Doug Edgley Durham Res II -- Lake City, FL - CP 8'3"10 Gable)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

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

Gable end supports 8" max rake overhang.

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

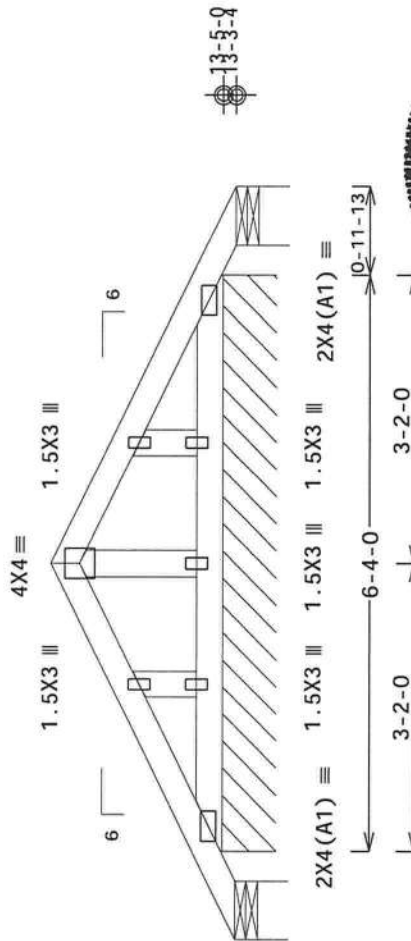
Special loads

-----Lumber
TC- From 56 pif at 0.00 to 56 pif at 4.15
BC- From 56 pif at 4.15 to 56 pif at 8.30
Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
4 pif at 0.00 to 4 pif at 8.30

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=2.0 psf. GCpl(+/-)=0.18

See DWGS A12015ENC100212, GBLLETIN00212, & GABRST100212 for more requirements.

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

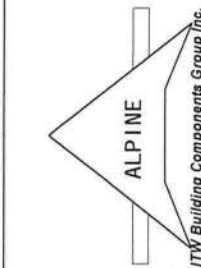


R=17 U=11 W=7.826"

RL=29/-28=67 PLF U=10 PLF W=6-4-0

Design Crit: FBC2010Res/TPI-2007 (ST)
FT/RT=10%(0%)/0(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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTA) practices prior to performing these functions. Installers shall provide temporary bracing for the top chord and shall have properly attached structural bracing and bottom chord 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 for any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: WTA: www.wta.org; TPI: www.tpiinc.com; WTA: www.wta.org; ICC: www.iccsafe.org



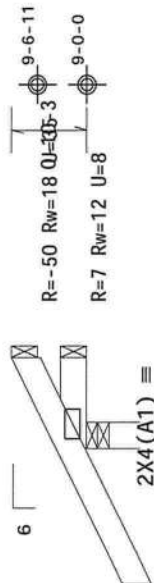
FL/-/5/-/-/R/-	Scale = .5"/Ft.
TC LL 20.0 PSF	REF R487-- 67222
TC DL 7.0 PSF	DATE 03/14/13
BC DL 10.0 PSF	DRW HCUSR487 13073016
BC LL 0.0 PSF	HC-ENG WHK/WHK
TOT.LD. 37.0 PSF	SEQN- 47758
DUR.FAC. 1.25	
SPACING 24.0"	JREF- 1UJ487_Z01

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

graves designated with IZA use design values approved 1/3/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Top chord.
Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Bot chord.



← 1-6-0 →
1-0-0 Over 3 Supports

R=229 U=34 W=3.5"
RL=20

PLT TYP. Wave

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

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Installation of BCS's Cold-Formed Steel Safety Formation, by TFC and WCA, follows the same procedures as for the other trusses. Installation of these trusses follows the same practices noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid collar. Locations shown for permanent lateral restraint shall have bracing installed per BCS sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (TWBCC) shall be responsible for any deviation from this document. The manufacturer shall be responsible for providing the following information:

- (1) Apply plates to each face of truss and position as shown above and on the Joint details, unless noted otherwise. Refer to drawings IBCA-2 for standard plate positions. A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: www.itwbuilding.com; TWBCC; twb@itwinc.net; ITW; www.itwinc.com.

See JECA06-9878



FL/-/5/-/-/R/-		Scale = .5"/Ft..
TC LL	20.0 PSF	REF R487-- 67223
TC DL	7.0 PSF	DATE 03/14/13
BC DL	10.0 PSF	DRW HCUR487 13073009
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	37.0 PSF	SEQN- 296095
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UJJ487 Z01

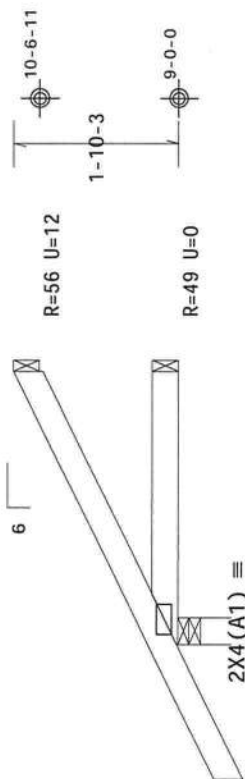
(13-029B--Doug Edgley Durham Res II -- Lake City, FL - CJ3 3' Jack)

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,

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.

Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Top chord.
Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Bot chord.



← 1-6-0 →
3-0-0 Over 3 Supports

R=238 II=14 W=3.5"

 $RI = 37$

Design Crit: FBC2010Res/TPI-2007(S.D)
FT/RT=10%(0%)/0(0)

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

**** IMPORTANT ****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. To ensure the safe erection of BCS (Building Components Safety Information, by TPI and WIGA) trusses, the following guidelines should be followed:

- Trusses shall have a property attached structural sheathing and bracing installed per the manufacturer's instructions.
- Trusses shall have a property attached rigid ceiling.
- Trusses shall have bracing installed per BCS sections B3, B7 or B10, as applicable.

[illegible]

PLT TYP. Wave

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

WALTER P. FINN
LICENSE
No. 22839
10-03-11 0289 19
STATE OF FLORIDA
PROFESSIONAL ENGINEER

03/14/2013

FL/-/5/-/-/R/-		Scale = 5" / Ft.
TC LL	20.0 PSF	REF R487-- 67224
TC DL	7.0 PSF	DATE 03/14/13
BC DL	10.0 PSF	DRW HCUR487 13073010
BC LL	0.0 PSF	HC-ENG DF/DF
TOT. LD.	37.0 PSF	SEQN- 296096
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1UUJ487_Z01

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - CJ3A 3' Jack)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

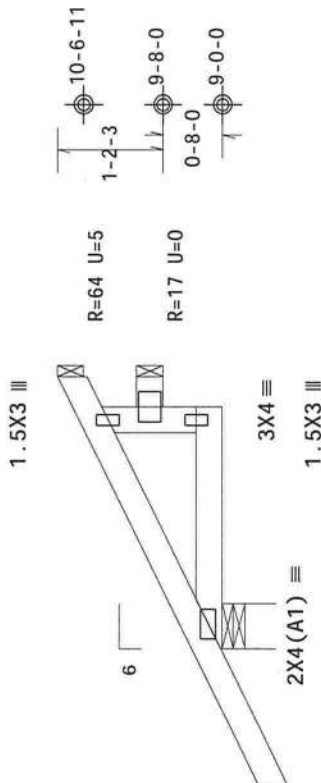
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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.



1-6-0

3-0-0 over 3-0 Support 4-0

R=238 U=14 W=6"
RL=37

Design Crit: FBC2010Res/TPI-2007(S)
FT/RT=10%(0%)/0(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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WIGA) regarding proper bracing and installation. Trusses shall be installed in accordance with the manufacturer's instructions. Unless noted otherwise, trusses shall be installed with a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/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 1604-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering and 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.itwbcg.com; TPI: www.tpinet.org; WIGA: www.wigaindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	FL/-/5/-/-/R/-	Scale = .5" /Ft.
TC DL	7.0 PSF	REF R487--	67225
BC DL	10.0 PSF	DATE	03/14/13
BC LL	0.0 PSF	DRW	HCUSR487 13073026
TOT. LD.	37.0 PSF	HC-ENG	WHK/WHK
DUR. FAC.	1.25	SEQN-	65859
SPACING	24.0"	JREF-	1UJ487_Z01

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - CJ5A 5' Jack)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

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

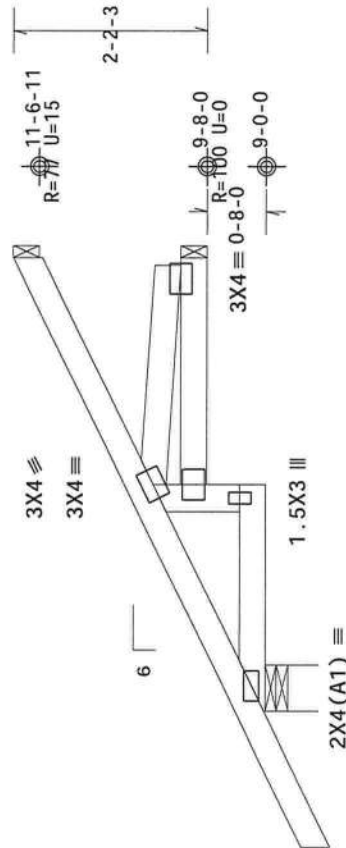
Bottom chord checked for 10.00 psf non-concurrent live load.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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 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.



1-6-0

2-6-0
5-0-0 Over 3 Supports

R=302 U=10 W=6"
RL=53/-23

PLT TYP. Wave

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

Scale = .5" /Ft.

FL/-5/-/R/-

0.002

10.03.11 020919

No. 22839

10.03.11 020919

03/14/2013

03/14/2013

03/14/2013

03/14/2013

03/14/2013

03/14/2013

03/14/2013

03/14/2013

TC LL	20.0 PSF	REF R487--	67227
TC DL	7.0 PSF	DATE	03/14/13
BC DL	10.0 PSF	DRW	HCUSR487 13073024
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	37.0 PSF	SEQN-	65865
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UJ487_Z01

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER
03/14/2013

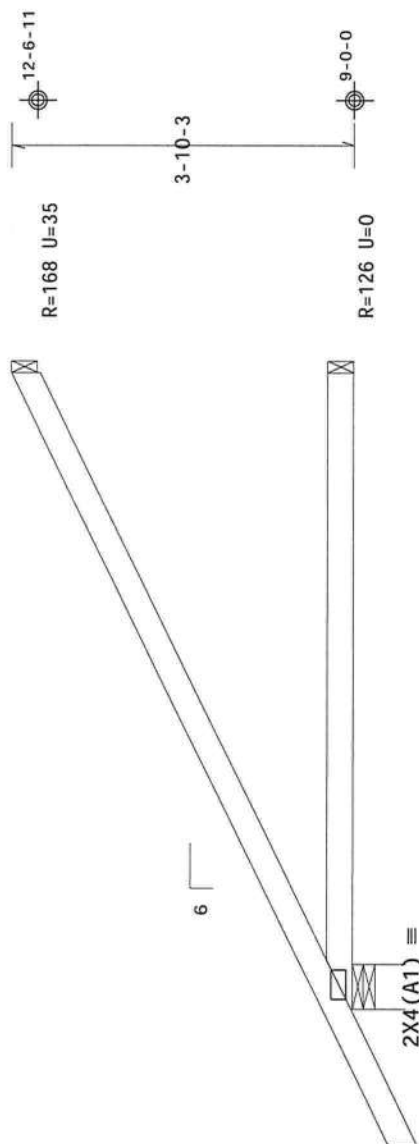
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the truss manufacturer's instructions (BCSI) for proper handling, shipping, and bracing practices prior to performing these functions. Installers shall provide temporary 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 shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/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 of trusses. Trusses shall be braced to drag-rod-2 or standard plate positions. A seal on this drawing or cover page listing this design shall not be used to indicate approval or responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

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, 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.

Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Top chord.
 Provide { 2 } 16d common nails (0.162"x3.5"), toe nailed at Bot chord.



$\leftarrow 1-6-0 \rightarrow$
 $\downarrow$
 7-0-0 Over 3 Supports
 R=372 U=8 W=6"
 RL=70/-27

PLT TYP. Wave

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

Scale = .5"/Ft.

TC LL	20.0 PSF	REF R487 -- 67228
TC DL	7.0 PSF	DATE 03/14/13
BC DL	10.0 PSF	DRW HCUSR487 13073011
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	37.0 PSF	SEQN- 296112
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UUJ487 Z01

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 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/SP1 Sec. 2. For more information see: This Job's General Notes, pages 11B-800; www.itabcorp.com; www.tpsinst.org; www.weldindustry.com; www.1ccsinfo.org

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0278

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - EJ7 7' End Jack)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

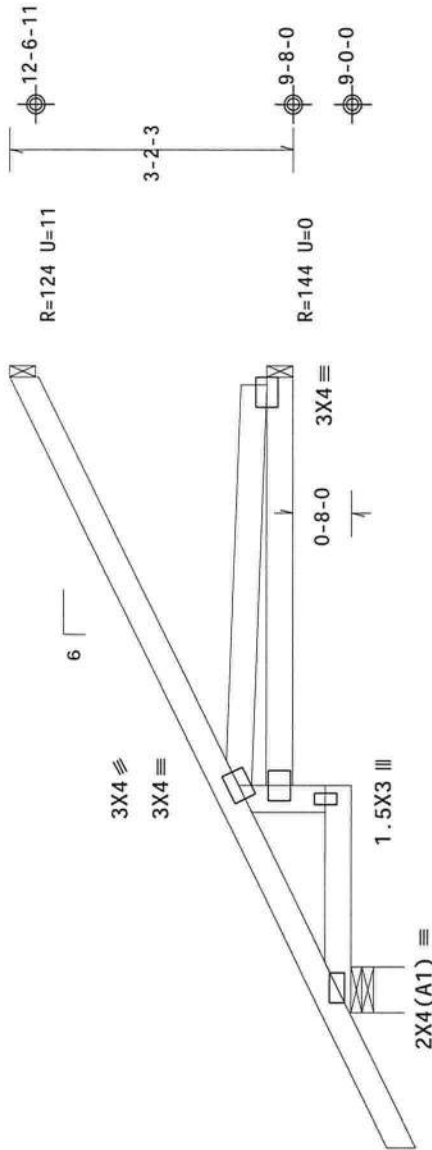
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-6-0

2-6-0 7-0-0 Over 3 Supports 4-6-0
R=372 U=0 W=6"
RL=47/-27



Design Crit: FBC2010Res/TPI-2007(S)D
FT/RT=10%(0%)/0(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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for proper erection and bracing. Trusses shall be erected and braced in accordance with the manufacturer's instructions. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid girt. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, 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 100A-2 for standard plate positions. A seal on this drawing, cover page listing this drawing, indicates acceptance of professional engineering. 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.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

TC LL	20.0 PSF	FL/-5/-/-/R/-	Scale = .5" /Ft.
TC DL	7.0 PSF	REF R487--	67229
BC DL	10.0 PSF	DATE	03/14/13
BC LL	0.0 PSF	DRW	HGUSR487 13073023
TOT. LD.	37.0 PSF	HC-ENG	WHK/WHK
DUR. FAC.	1.25	SEQN-	65863
SPACING	24.0"	JREF-	1UJ487_Z01

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_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.

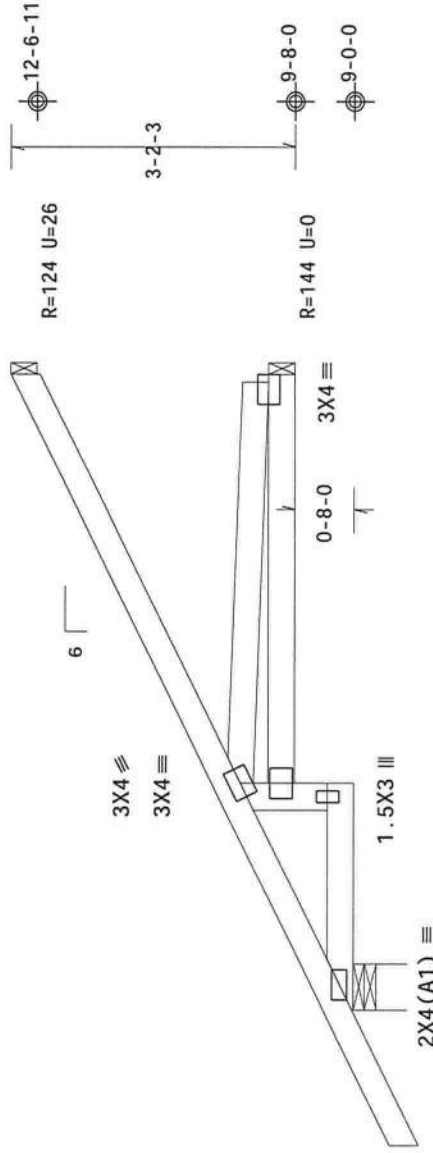
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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 MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



1-6-0

2-6-0 7-0-0 Over 3 Supports 4-6-0

R=372 U=8 W=6"
RL=70/-27

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

PLT TYP. Wave

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

IMPORTANT Trusses require extreme care in fabricating, handling, shipping, installing and bracing. For all trusses, follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for a complete and detailed set of instructions. Installers shall provide temporary bracing per BCSI instructions. Trusses shall be braced in accordance with the instructions provided. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/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 indicating this drawing, indicates acceptance of professional engineering. The responsibility of the Building Designer per ANSI/TPI 1, Section 2, shall remain with the Building Designer. This job's general notes page: ITW-BCSI: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	FL/-5/-/-/R/-	Scale = .5"/Ft.
TC DL	7.0 PSF	REF R487--	67230
BC DL	10.0 PSF	DATE	03/14/13
BC LL	0.0 PSF	DRW	HCUSR487 13073027
TOT.LD.	37.0 PSF	HC-ENG	WHK/WHK
DUR.FAC.	1.25	SEQN-	65871
SPACING	24.0"	JREF-	1UJ487_Z01

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

Special loads

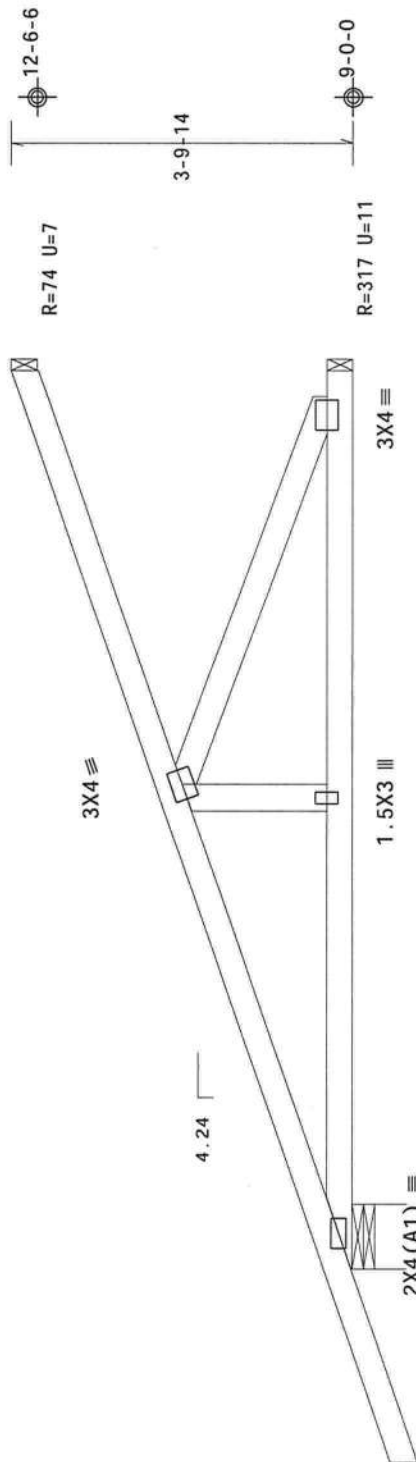
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

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 MWFRS:

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



← 2-1-7 →
 9-10-13 Over 3 Supports
 R=321 U=87 W=8.485"

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

PLT TYP. Wave

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

FI / - / 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 information for more details on BCSI (Building Component Safety) interaction, by TPI and WFLA for the design of trusses. The following characteristics are to be followed:

- All trusses shall have a properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

ITW Building Components Corp., (TWBCC) shall not be responsible for any deviation from the design shown on drawings or specifications, or for any failure to build the structure in accordance with ANSI/TPI 1-91, notwithstanding the tracing of details, unless noted otherwise. Refer to each face of truss and position as shown above and on the back of this drawing for specific details. Indicate acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any application is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: TWBCC, 6000 W. 87th St., Minneapolis, MN 55431, Tel: 612-835-1000, Fax: 612-835-1001, E-mail: info@itwbc.com, Web: www.itwbc.com, www.prism.org. TWBCC, 6000 W. 87th St., Minneapolis, MN 55431, Tel: 612-835-1000, Fax: 612-835-1001, E-mail: info@itwbc.com.

ALPINE

HC LL	0.0 PSF	HC-ENG	DF/DF
OT, LD.	37.0 PSF	SEQN-	296134
UR, FAC.	1.25		
PACING	24.0"	JREF-	1UJ487 2

03/14/2013

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - HJ1A 9'10"13 Hip Jack Girder)

Top chord 2x4 SP #1 12A
Bot chord 2x4 SP #1 12A
Webs 2x4 SP #1 12A :W2 2x4 SP #3 12A:

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

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.

(T1) = (J) Tie not calculated Unavailable

Bottom chord checked for 10.00 psf non-concurrent live load.

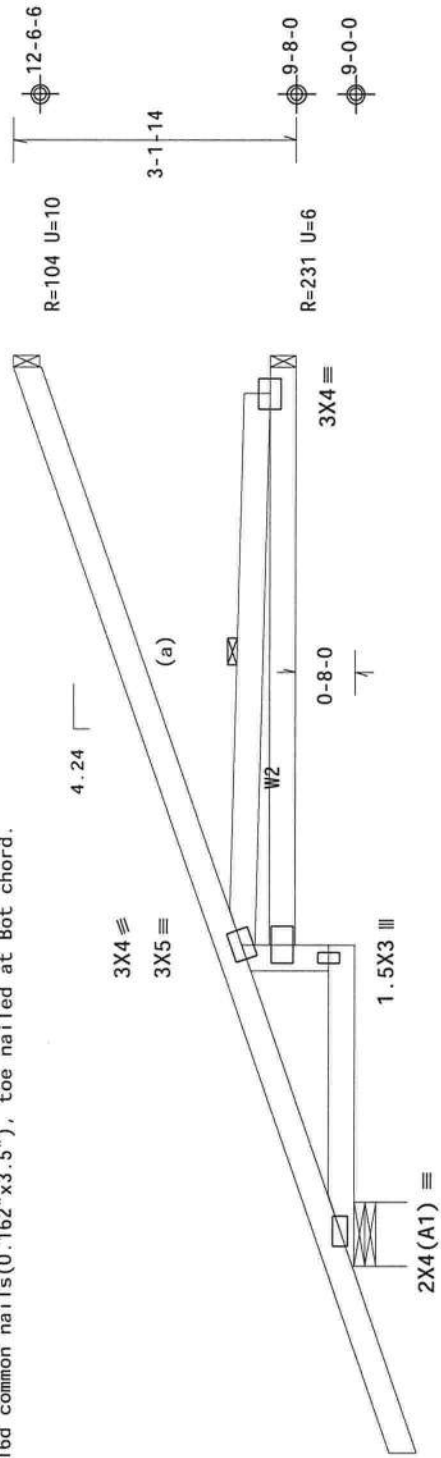
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

Special loads

TC- From	Dur.Fac.=1.25 / Plate	Dur.Fac.=1.25
TC- From	0 pif at -2.06 to	55 pif at 0.00
TC- From	2 pif at 0.00 to	2 pif at 9.90
BC- From	0 pif at -2.06 to	4 pif at 0.00
BC- From	2 pif at 0.00 to	2 pif at 3.54
BC- From	2 pif at 3.54 to	2 pif at 9.90
TC- -31.38 lb Conc. Load at		1.48
TC- 127.81 lb Conc. Load at		4.31
TC- 154.02 lb Conc. Load at		7.13
BC- 14.23 lb Conc. Load at		1.48
BC- 34.02 lb Conc. Load at		4.31
BC- 200.35 lb Conc. Load at		7.13

(a) Continuous lateral bracing equally spaced on member.

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



← 2-0-11 →

3-6-7 6-4-6
9-10-13 Over 3 Supports
R=320 U=84 W=8.485"



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

PLT TYP. Wave

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

TC LL	20.0 PSF	REF	R487 --	67232
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073007
BC LL	0.0 PSF	HC-ENG	WHK/WHK	
TOT.LD.	37.0 PSF	SEQN-	65877	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487_Z01	

ALPINE

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

****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. It is the responsibility of the contractor to ensure that all trusses are installed in accordance with the design and specifications. A seal on this drawing is required for the contractor to be responsible for the installation. Refer to drawings 1004-2 for standard plate positions. A seal on this drawing is required for the contractor to be responsible for the installation. 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: ITW-BCC: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - BPB 5'8"10 Common)

Top chord 2x4 SP #1 12A
Bot chord 2x4 SP #1 12A
Webs 2x4 SP #3 12A

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

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

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

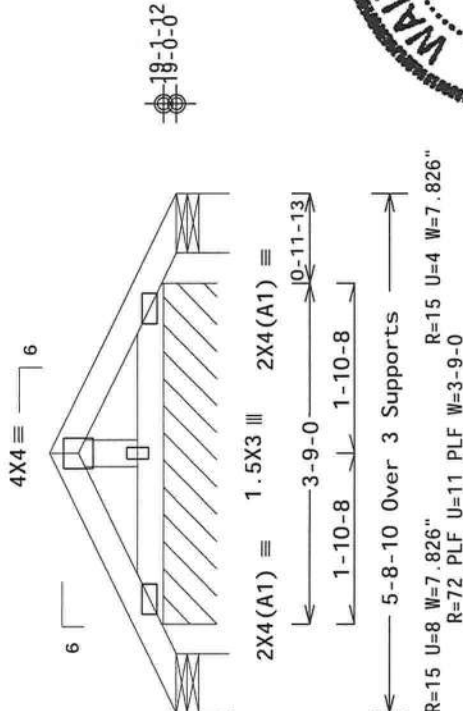
MWFRS loads based on trusses located at least 9.86 ft. from roof edge.

Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 56 plf at 0.00 to 56 plf at 2.86
TC- From 56 plf at 2.86 to 56 plf at 5.72
BC- From 4 plf at 0.00 to 4 plf at 5.72

120 mph wind, 19.72 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=2.0 psf. GCpl(+/-)=0.18

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



PLT TYP. Wave

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

TC LL	20.0 PSF	FL/-/5/-/-/R/-	Scale = .5" /Ft.
TC DL	7.0 PSF	REF R487--	67233
BC DL	10.0 PSF	DATE	03/14/13
BC LL	0.0 PSF	DRW	HCUSR487 13073008
TOT.LD.	37.0 PSF	HC-ENG	WHK/WHK
DUR. FAC.	1.25	SEQN-	65906
SPACING	24.0"	JREF-	1UJ487_Z01

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

WALTER P. FINN
LICENSE
No. 22839
03/14/2013
STATE OF FLORIDA
PROFESSIONAL ENGINEER
03/14/2013

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. No alterations or modifications are to be made without the written approval of the Designer. Practices prior to performing these functions. Installers shall provide temporary bracing for all trusses 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 trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/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 1004-2 for standard plate positions. A seal on this drawing indicates that the Designer has approved the design and the responsibility 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.itwbcg.com; TPI: www.tpiinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - BPB 6'0"10 Common)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

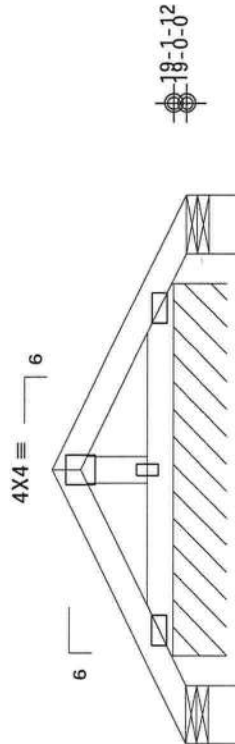
Wind loads and reactions based on MWFRS with additional C&C member design.

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

Special loads
-----Lumber
TC- From 56 plf at 0.00 to 56 plf at 3.03
BC- From 56 plf at 3.03 to 56 plf at 6.05
BC- From 4 plf at 0.00 to 4 plf at 6.05

120 mph wind, 19.76 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=2.0 psf, GCPI(+/-)=0.18

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



2X4(A1) = 1.5X3 11 2X4(A1) =
4-1-0 10-11-13
2-0-8 2-0-8
6-0-10 Over 3 Supports
R=13 U=9 W=7.826"
RL=20/-20-72 PLF U=16 PLF W=4-1-0
R=13 U=5 W=7.826"

Design Crit: FBC2010Res/TPI-2007(S1)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



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

TC LL	20.0 PSF	REF	R487 -- 67234
TC DL	7.0 PSF	DATE	03/14/13
BC DL	10.0 PSF	DRW	HCUSR487 13073021
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	37.0 PSF	SEQN-	65905
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UJ487_Z01

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - BP1 8'11"10 Gable)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

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

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

Gable end supports 8" max rake overhang.

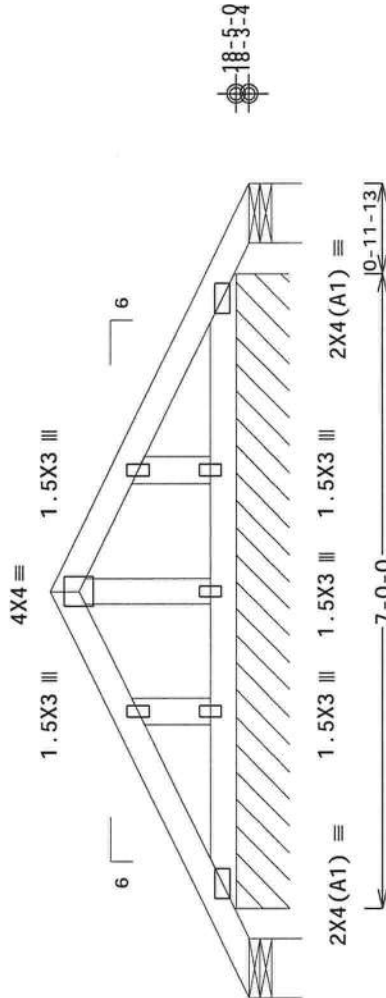
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Special loads
-----Lumber
TC- From 56 plf at 0.00 to 56 plf at 4.49
BC- From 56 plf at 4.49 to 56 plf at 8.97
BC- From 4 plf at 0.00 to 4 plf at 8.97

120 mph wind, 19.39 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=2.0 psf. GCpl(+/-)=0.18

See DWGS A12030ENC100212, GBLLET100212, & GABRST100212 for more requirements.

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



R=13 R_w=14 U=13 W=7.826"
RL=31/-38=67 PLF U=14 PLF W=7-0-0

Design Crit: FBC2010Res/TPI-2007(S10)
FT/RT=10%(0%) / 0(0)

PLT TYP. Wave

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FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

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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 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 1604-Z for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering and 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.itwbcg.com; TPI: www.tpinat.org; WTA: www.wtaindustry.com; ICC: www.iccsafe.org

Scale = .5" / Ft.

TC LL	20.0 PSF	FL / -5 / - / - / R / -	REF R487 -- 67235
TC DL	7.0 PSF		DATE 03/14/13
BC DL	10.0 PSF		DRW HCUSR487 13073022
BC LL	0.0 PSF		HC-ENG WHK/WHK
TOT.LD.	37.0 PSF		SEQN- 47756
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UJ487_Z01

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top	chord	2x4	SP #1	12A
Bot	chord	2x4	SP #1	12A
	Webbs	2x4	SP #3	12A

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

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

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

MWFRS loads based on trusses located at least 19.48 ft. from roof edge.

Refer to DWG PB160100212 for piggyback details.

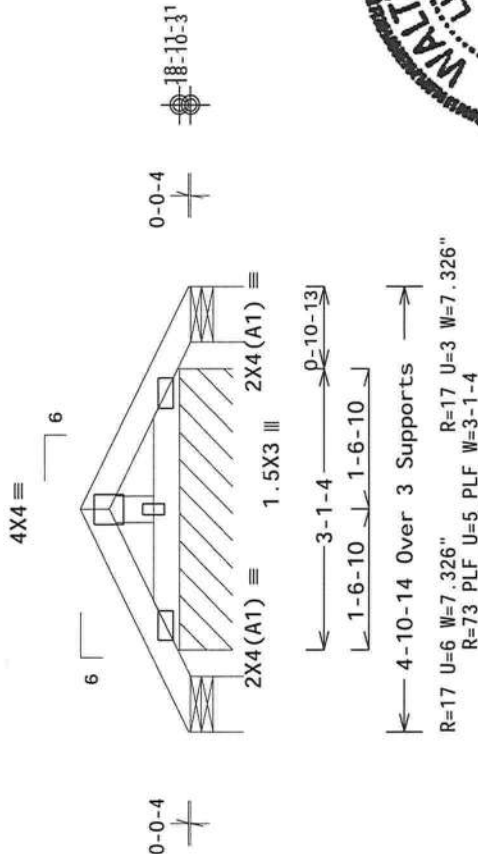
Special loads

Special loads	-----(Lumber	Dur.Fac.=1.25 /	Plate Dur.Fac.=1.25)
TC- From	56 pif at -0.90 to	56 pif at	1.55
TC- From	56 pif at 1.55 to	56 pif at	4.01
BC- From	4 pif at -0.90 to	4 pif at	4.01

120 mph wind, 19.48 ft mean hgt., ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=2.0 psf.

GCpi (+/-) = 0.18

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



Design Crit: FBC2010Res/TPI-2007(STU)
FT/RT=10%(0%)/0(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 MICA for the following information prior to performing these functions. Installers shall provide temporary bracing for all trusses until the permanent bracing is installed. Trusses shall have properly attached structural sheathing and bottom chord bracing. Trusses shall have a properly attached rafter collar. Sections common for permanent lateral bracing shall be braced against twisting.

ITW Building Components Group Inc. (TWBCG) shall not be responsible for any deviation from this drawing or specification due to errors in transcription, interpretation, or handling or shipping. The user assumes all responsibility for details, dimensions, quantities, and positioning. No alteration of this drawing without written approval of TWBCG will be considered. Refer to drawings 100K-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 suitability and use of this design for any structure is the responsibility of the Building Designer per AISI/TPI 1 Sec.2. For more information see: www.twbcg.com, twbcg@twbcg.com, www.lanfey.com, TPI: www.tpi.net; WCK: www.sds-industries.com; ICF: www.icfusa.org

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

03/14/2013

WALTER P. FINN
LICENSE
No. 22839
10.03.11 to 09.19.13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

C LL	20.0	PSF	REF	R487--	67236
C DL	7.0	PSF	DATE	03/14/13	
C DL	10.0	PSF	DRW	HCUSR487	13073017
C LL	0.0	PSF	HC-ENG	DF/DF	
OT.LD.	37.0	PSF	SEQN-	48805	
UR.FAC.	1.25				
PACING	24.0"		IREF-	1UJ487	Z01

Top	chord	2x4	SP_#1_12A
Bot	chord	2x4	SP_#1_12A

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

120 mph wind, 19.36 ft mean hgt., ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=2.0 psf. GCoi (+/-)=0.18

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

WFRS loads based on trusses located at least 19.36 ft. from roof edge.

Refer to DWG PB160100212 for piqqyback details.

Special loads
----- (Lumber
TC- From
TC- From
TC- From
BC- From

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.

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

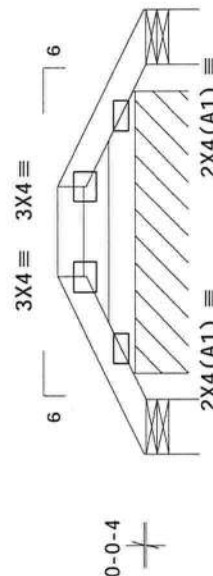


Diagram of a continuous beam with three supports. The beam is divided into four spans. The first span is 10'-0" long, with a 3'-1" overhang at the left end and a 1'-0" overhang at the right end. The second span is 10'-0" long. The third span is 10'-0" long. The fourth span is 10'-0" long, with a 3'-1" overhang at the right end. The total length of the beam is 40'-0". The diagram is labeled "4-10-14 Over 3 Supports".

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

PLT TYP. Wave

design CFI: FBZ01URES/IFI-Z007(SI
FT/RT=10%(0%)/0(0)

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

..IMPORTANT..

Trusses require extra care in fabricating, hoisting, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety) Installation, by TPI and WTAQ for more information prior to performing these functions. Installers shall provide temporary bracing per manufacturer's instructions otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid soiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & erection 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-2 For standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: www.itw-bcg.com ITWBCG: www.cadacy.com WTAQ: www.sdcinfo.com

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
Tel. COA #0 278

03/14/2013

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

TC LL	20.0 PSF	REF	R487--	67237
TC DL	7.0 PSF	DATE	03/14/13	
BC DL	10.0 PSF	DRW	HCUSR487	13073004
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT. LD.	37.0 PSF	SEQN-	48804	
DUR. FAC.	1.25			
SPACING	24.0"	JREF-	1UJ487	Z01

JREF- 1UJ487_Z01

(13-029B--Doug Edgley Durham Res II -- Lake City, FL - APB2 18'5"15 Mono Hip)

Top chord 2x4 SP #1 12A
Bot chord 2x4 SP #1 12A
Webs 2x4 SP #3 12A

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

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

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

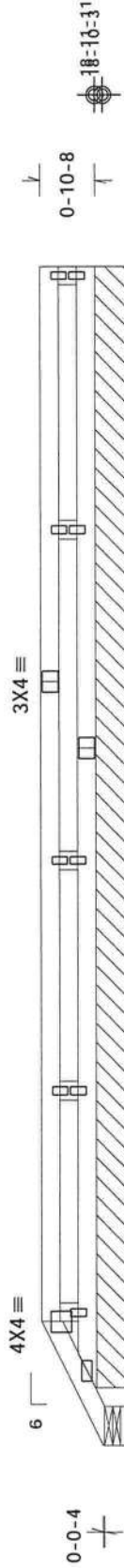
MMFRS loads based on trusses located at least 19.36 ft. from roof edge.

Refer to DWG PB160100212 for piggyback details.

Special loads
---(Lumber Dur. Fac.=1.25 / Plate Dur. Fac.=1.25)
TC- From 56 pif at -0.90 to 56 pif at 1.05
TC- From 56 pif at 1.05 to 56 pif at 17.55
BC- From 4 pif at -0.90 to 4 pif at 17.55

120 mph wind, 19.36 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=2.0 psf. GCPI(+/-)=0.18

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



R=20 U=0 W=7.326"
R=61 PLF U=13 PLF W=17-6-10

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(S1)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

FL/-5/-/-/R/- Scale = .375"/Ft.

TC LL	20.0 PSF	REF R487--	67238
TC DL	7.0 PSF	DATE	03/14/13
BC DL	10.0 PSF	DRW	HCU487 13073018
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	37.0 PSF	SEQN-	48839
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UJ487_Z01



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

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ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

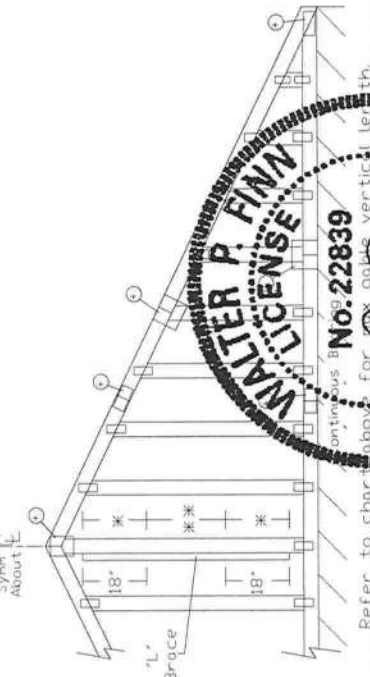
Gable Stud Reinforcement Detail

 $C, K_{Zt} = 1.00$ [illegible]

Diagonal brace option:
vertical length may be
doubled when diagonal
brace is used. Connect
diagonal brace for 335
at each end. Max web
total length is 14'

Vertical length shown
in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for ~~max~~ gable vertical length.

★WARNING★ READ AND FOLLOW ALL NOTES ON THIS DRAWING!
 PLEASE TAKE SPECIAL CARE TO FOLLOW ALL INSTRUCTIONS FOR THE INSTALLATION OF THE INVERTER FOR

[illegible]

Building Components Group Inc.

W T

03/14/2013

Mar 14 '13

Earth City, MO 63045

For more information see this job's general notes page and these web sites:
 TVBCG: www.tvbcg.com; IPI: www.ipi.org; WGA: www.wga.org; ILL: www.illccs.org

Bracing Group Species and Grades:

Group A:		
Spruce-Pine-Fir	Hem-Fir	
	#2	Stud
	#3	Standard
Southern Pine***		
Douglas Fir-Larch	Hem-Fir	
	#2	Stud
	#3	Standard
Southern Pine***		
Group B:	Hem-Fir	
	#1 & Btr	
	#1	
Douglas Fir-Larch	Southern Pine***	
	#1	
	#2	

1x4 Braces shall be SRR (Stress-Rated Board) ***for 1x4 S4 pine use only Industrial S5 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 35 plf over continuous bearing (5 psf IC Dead Load).

Gable end supports load from 4' 0" outlooker's with 2' 0" overhang, or 12" plywood overhang.

On these conditions, the following conditions are imposed:

So, fine, I agree: design values based on the ALSC January, 2012 run

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c.

* 18" end zones and 4" o.c. between zones.
* 18" end zones and 4" o.c. between zones.
* 18" end zones and 4" o.c. between zones.

in 18° end zones and 6° o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	25X4

* Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

REF	ASCE7-10-GABI2015
DATE	2/14/12
DRWG	A12015ENC100212
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	

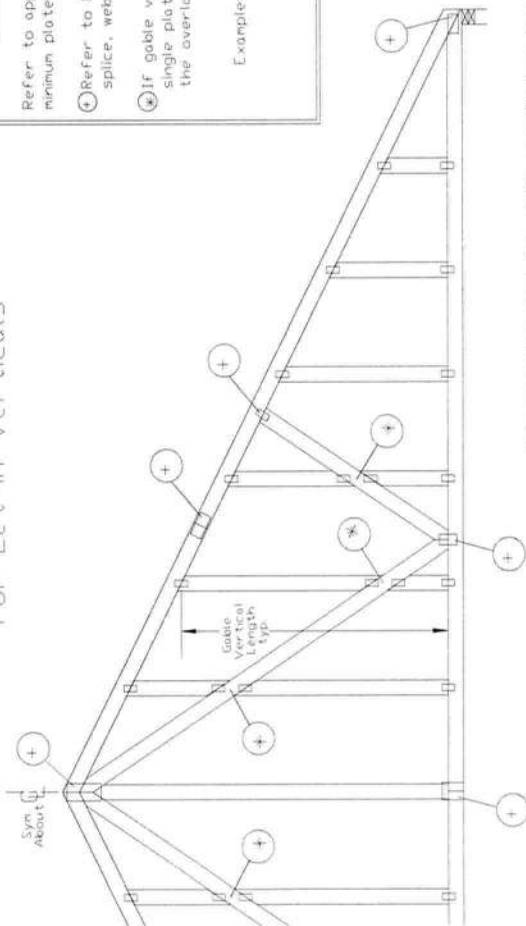
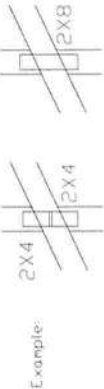
Gable Detail For Let-in Verticals

Gable Truss Plate Sizes

Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

Refer to Engineered truss design for peak, splice, web, and heel plates.

If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148" x 3.7" min) Nails at 4" o.c. plus

{4} nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148" x 3.7" min) Toenails at 4" o.c. plus

{4} toenails in the top and bottom chords.

This detail to be used with the appropriate ITW gable detail for ASCE wind load.

ASCE 7-98 Gable Detail Drawings

AI3015980109, AI2015980109, AI1015980109, AI0015980109,

AI3030980109, AI2030980109, AI1030980109, AI0030980109

ASCE 7-02 Gable Detail Drawings

AI3015020109, AI2015020109, AI1015020109, AI0015020109,

AI3030020109, AI2030020109, AI1030020109, AI0030020109

ASCE 7-05 Gable Detail Drawings

AI3015050109, AI2015050109, AI1015050109, AI0015050109,

AI3030050109, AI2030050109, AI1030050109, AI0030050109

ASCE 7-10 Gable Detail Drawings

AI1515ENC100212, AI2015ENC100212, A20015ENC100212, A20015ENC100212,

AI8015ENC100212, A20015ENC100212, A20015ENC100212, A20015ENC100212,

AI1530ENC100212, A20030ENC100212, A20030ENC100212, A20030ENC100212,

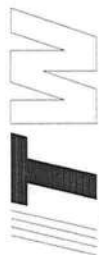
AI8030ENC100212, A20030ENC100212, A20030ENC100212, A20030ENC100212

See appropriate ITW gable detail for maximum unreinforced gable vertical length.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING

IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCS Building Companion for details on proper handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of the truss design by the manufacturer. The manufacturer's seal is not a warranty of the truss or the building. The manufacturer is not responsible for any structural failure or damage to the building or its contents. For more information see this job's general notes page and these web sites: ITWBCG, www.itwbcg.com, IPI, www.ipi.org, WICA, www.wicaindustry.org, ICC, www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

REF LET-IN VERT

DATE 2/16/12

DRWG GBLLETIN0212

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"



03/14/2013

Mar 14 '13

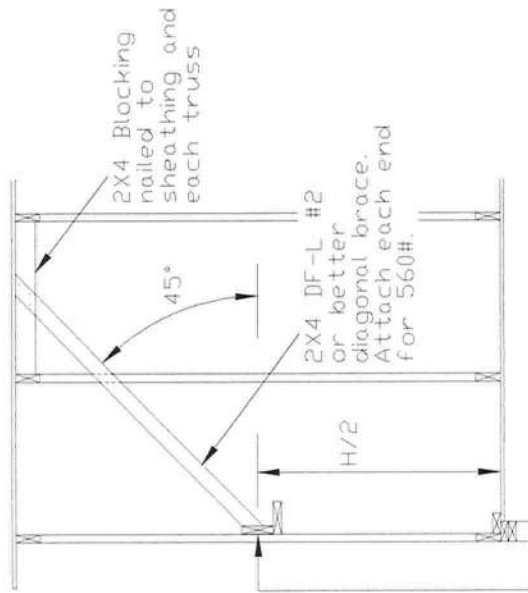
ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-10, Part, Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=50 psf, Wind BC DL=50 psf.

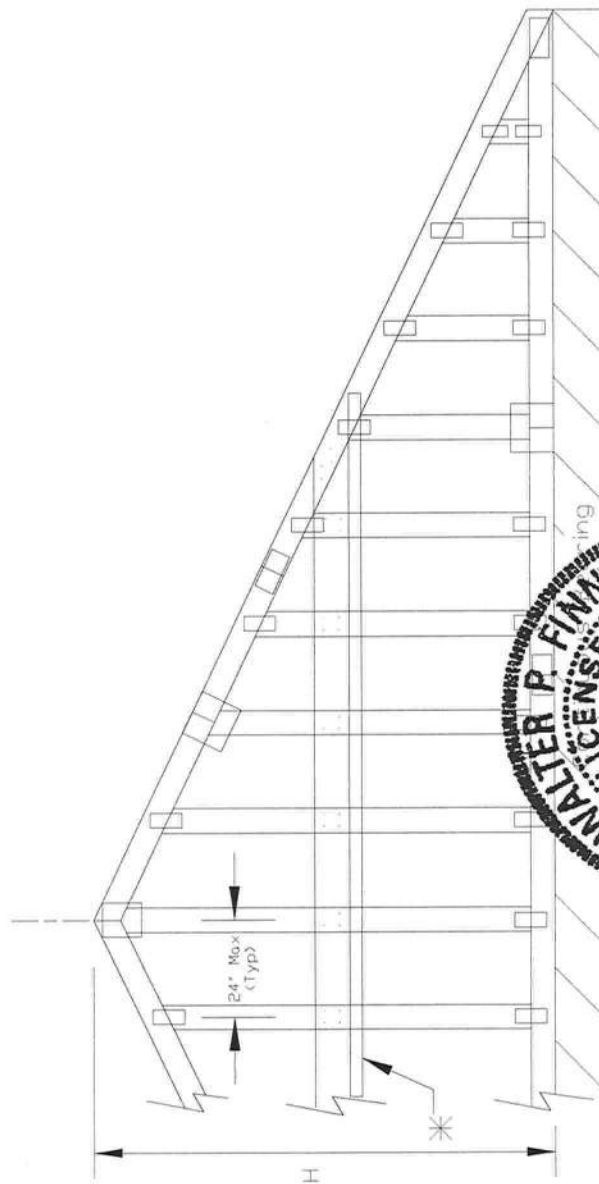
Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

Nails: 10d box or gun (0.128"x3",min) nails.



2x6 #2 Stiffback
attached to each
Stud w/ (4) 10d box or gun (0.123" x 3", min.) nails.



H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length

provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC10).

H Greater than 7'6" to 12'0" max:

provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC10).

* Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to the manufacturer's instructions for proper handling and bracing. Trusses shall be braced in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of each face of trusses and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing is provided for the engineer's use only. The engineer's seal is required for any structure in the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this page's general notes page and these web sites: ITWBCG www.itwbcg.com, TPI www.tpiinc.org, WTC www.wtcindustry.org, ICC www.iccsafe.org



Earth City, MO 63045

REF	GE	WHALE
DATE	2/14/12	
DRWG	GABRST100212	
MAX. TOT. LD.	60 PSF	
MAX. SPACING		

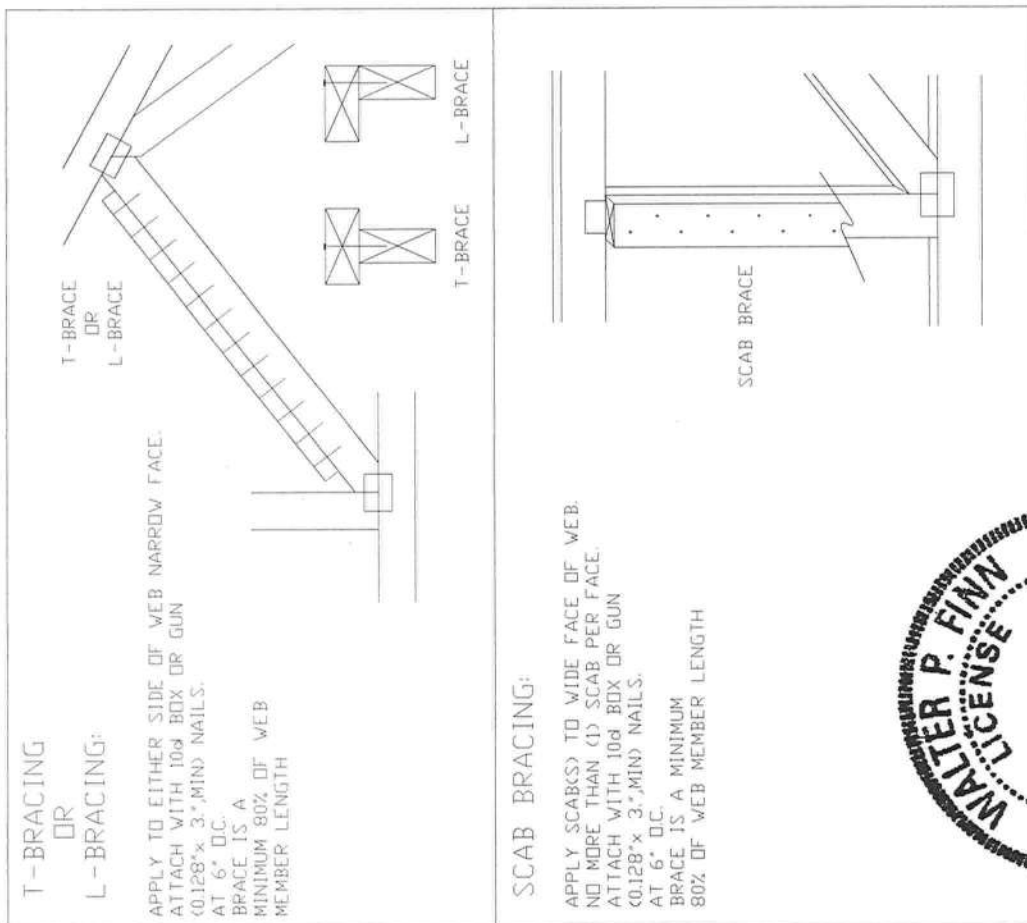
THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED
CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB
BRACING.

WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE 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.



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

[illegible][illegible]

W T

Building Components Group Inc.

Earth City, MO 63045

Dr: 100 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Bracing Group Stress-Rated Boards:

Group A:

Spruce-Pine-Fir

#1 / #2	Standard
#3	Stud

Hein-Fir

#2	Stud
#3	Standard

Southern Pine***

#3	Stud
	Standard

Group B:

Hein-Fir

#1 & 2	Stud
#1	

Southern Pine***

#1	Stud
#2	Standard

Group C:

Douglas Fir-Larch

#3	Stud
	Standard

Hein-Fir

#1 & 2	Stud
#1	

Southern Pine***

#1	Stud
#2	Standard

Group D:

Douglas Fir-Larch

#1	Stud
#2	Standard

Hein-Fir

#1 & 2	Stud
#1	

Southern Pine***

#1	Stud
#2	Standard

1x4 Braces shall be SRB (Stress-Rated Board)

***For 1x4 So. Pine use only Industrial 95 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

the ALSC January, 2012 rule

"L" bracing must be a minimum of 80% of web

Refer to the Building Designer for conditions not addressed by this detail.



MAX. SPACING	24.0"
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REF	ASCE7-10-GABI2030
DATE	2/14/12
DRWG	A12030ENC100218

Mar 14 '13

The Building Components Group, Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in accordance 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 structure shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see the job's general note page and these web sites:



TW
Building Components Group Inc.

Earth City, MO 63045

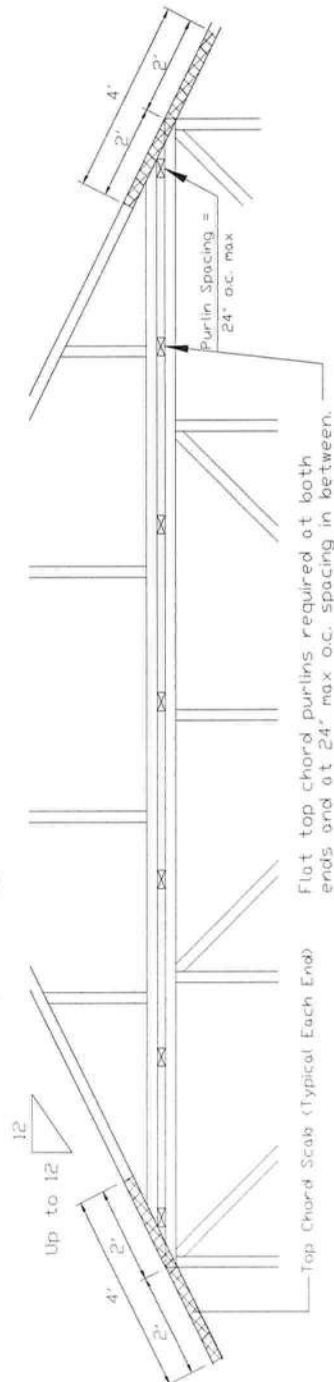
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0, Exp D, 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0

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

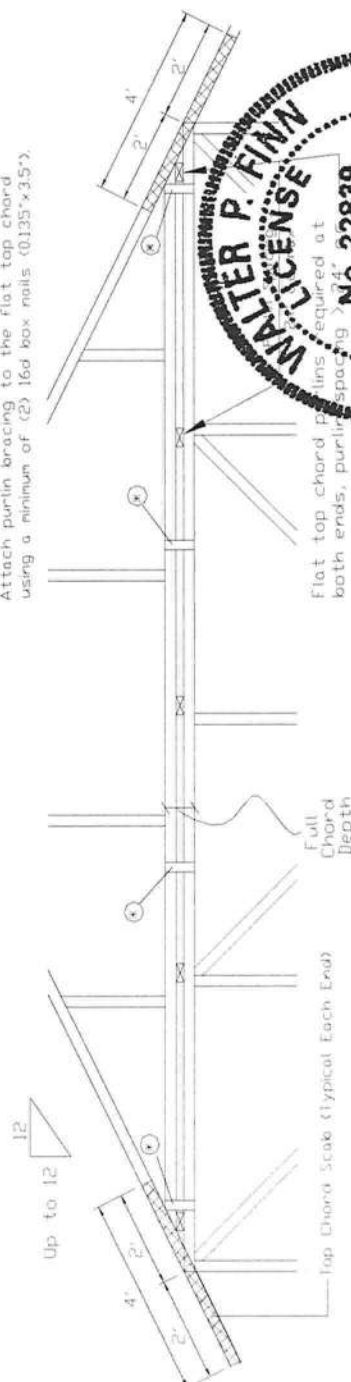
Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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

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



Detail B : Purlin Spacing > 24" o.c.



* In addition, provide connection with one of the following methods:

Trulox

Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8" o.c. with (4) 0.120"x1.375" nuts into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4" o.c. front to back faces.

APA Rated Gusset

8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8" o.c. with (8) 6d common nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4" o.c. front to back faces.

204 Vertical Curve

2x4 SPF #2, full chord depth scabs (each face). Attach @ 8" o.c. with (6) 10d box nails (128"x3") per scab. (3) in cap bottom chord and (3) in house truss top chord. Scabs may be staggered @ 8" o.c. front to back faces.

c888 Wave Pinhook Plate

One 2x8 wave piggyback plate to each face of 8" o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4x4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4" o.c. front to back faces.

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of IBC's Building Component Safety Information, by TPI and WCA for all applicable details prior to performing these functions. Installers shall provide temporary bracing per manufacturer's recommendations. Truss chord shall have properly attached structural sheathing and bottom chords noted otherwise; lip chord shall have properly attached structural sheathing and bottom chords noted otherwise. All trusses shall be installed per IBC's sections B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 1604-Z for standard plate positions.

ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build in conformance with ANSI/TPI-1 or for handling, shipping, installation & securing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI-1 § 3.6.2.

REF PIGGYBACK

DATE 2/14/12

DRWG FBI60100212

Earth City, MO 63045

SPACING 24.0"

03/14/2013

Mar 14 '13

TW

Building Components Group Inc.