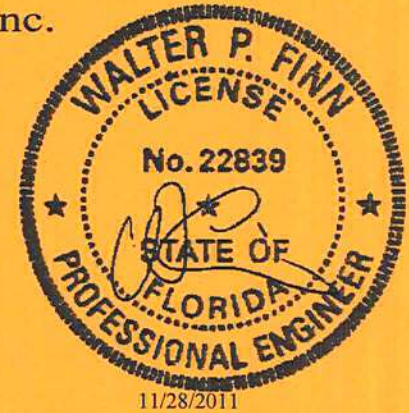


ITW Building Components Group, Inc.

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:1UHF487-Z0328145612



Truss Fabricator: Anderson Truss Company
 Job Identification: 11-209--F111 in later BOB JORDAN -- , **
 Truss Count: 107
 Model Code: Florida Building Code 2007 and 2009 Supplement
 Truss Criteria: FBC2007Res/TPI-2002(STD)
 Engineering Software: Alpine Software, Version 10.03.
 Structural Engineer of Record: The identity of the structural EOR did not exist as of
 Address: the seal date per section 61G15-31.003(5a) of the FAC
 Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
 Floor - N/A
 Wind - 110 MPH ASCE 7-05 -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: BRCLBSUB-A1101505-GBLLETIN-P8120-

#	Ref	Description	Drawing#	Date
1	61394--A1		11332044	11/28/11
2	61395--A		11332100	11/28/11
3	61396--AG		11332079	11/28/11
4	61397--A2		11332063	11/28/11
5	61398--H9AT		11332056	11/28/11
6	61399--H11AT		11332049	11/28/11
7	61400--H13AT		11332041	11/28/11
8	61401--AT		11332081	11/28/11
9	61402--AT7		11332048	11/28/11
10	61403--AT6		11332067	11/28/11
11	61404--AT5		11332021	11/28/11
12	61405--AT4		11332070	11/28/11
13	61406--AT3		11332035	11/28/11
14	61407--AT2		11332077	11/28/11
15	61408--AT1		11332076	11/28/11
16	61409--H15AV		11332042	11/28/11
17	61410--H17AV		11332045	11/28/11
18	61411--H19AV		11332008	11/28/11
19	61412--H7B		11332018	11/28/11
20	61413--H9B		11332043	11/28/11
21	61414--H11B		11332054	11/28/11
22	61415--H13B		11332065	11/28/11
23	61416--B1		11332006	11/28/11
24	61417--B2		11332091	11/28/11
25	61418--BT		11332096	11/28/11
26	61419--BT1		11332095	11/28/11
27	61420--C		11332069	11/28/11
28	61421--CS		11332072	11/28/11
29	61422--CS2		11332071	11/28/11
30	61423--CGE		11332068	11/28/11
31	61424--H5D		11332015	11/28/11
32	61425--D		11332040	11/28/11
33	61426--DS		11332019	11/28/11
34	61427--E		11332044	11/28/11
35	61428--EGE		11332045	11/28/11
36	61429--ES		11332046	11/28/11
37	61430--F1		11332025	11/28/11
38	61431--H9G		11332037	11/28/11

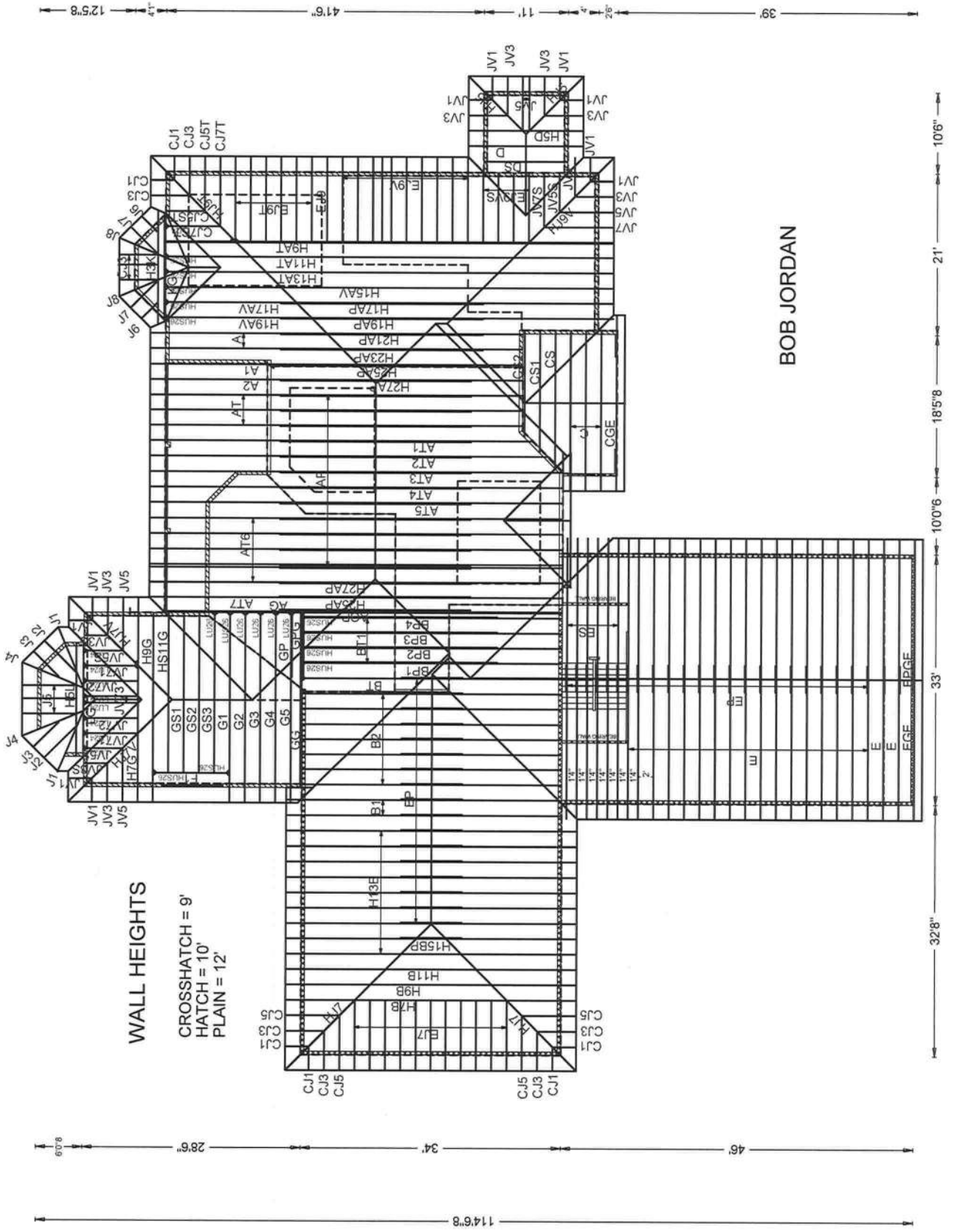
#	Ref	Description	Drawing#	Date
39	61432--G1		11332064	11/28/11
40	61433--G2		11332090	11/28/11
41	61434--G3		11332089	11/28/11
42	61435--G4		11332086	11/28/11
43	61436--G5		11332088	11/28/11
44	61437--G6		11332007	11/28/11
45	61438--H7G		11332023	11/28/11
46	61439--H511G		11332084	11/28/11
47	61440--GS1		11332013	11/28/11
48	61441--GS2		11332014	11/28/11
49	61442--GS3		11332073	11/28/11
50	61443--CJ1		11332003	11/28/11
51	61444--CJ3		11332011	11/28/11
52	61445--CJ5		11332032	11/28/11
53	61446--EJ7		11332016	11/28/11
54	61447--HJ7		11332017	11/28/11
55	61448--J1		11332102	11/28/11
56	61449--J2		11332080	11/28/11
57	61450--J3		11332103	11/28/11
58	61451--J5		11332106	11/28/11
59	61452--J4		11332101	11/28/11
60	61453--JV1		11332026	11/28/11
61	61454--JV3		11332027	11/28/11
62	61455--JV5		11332022	11/28/11
63	61456--JV35		11332029	11/28/11
64	61457--JV55		11332046	11/28/11
65	61458--JV71		11332024	11/28/11
66	61459--JV72		11332033	11/28/11
67	61460--JV73		11332074	11/28/11
68	61461--HJ5		11332099	11/28/11
69	61462--CJ5T		11332053	11/28/11
70	61463--CJ5ST		11332050	11/28/11
71	61464--CJ7ST		11332005	11/28/11
72	61465--CJ7T		11332060	11/28/11
73	61466--HJ9T		11332010	11/28/11
74	61467--EJ9T		11332061	11/28/11
75	61468--EJ9		11332055	11/28/11
76	61469--EJ9V		11332038	11/28/11

#	Ref	Description	Drawing#	Date
77	61470--EJ9VS		11332082	11/28/11
78	61471--JV7		11332097	11/28/11
79	61472--JV5S		11332059	11/28/11
80	61473--JV7S		11332105	11/28/11
81	61474--HJ9V		11332052	11/28/11
82	61475--J6		11332104	11/28/11
83	61476--J7		11332057	11/28/11
84	61477--J8		11332036	11/28/11
85	61478--HJ7V		11332031	11/28/11
86	61479--H3K		11332098	11/28/11
87	61480--KG		11332058	11/28/11
88	61481--H5L		11332034	11/28/11
89	61482--LG		11332028	11/28/11
90	61483--BP		11332004	11/28/11
91	61484--H15BP		11332075	11/28/11
92	61485--GP		11332087	11/28/11
93	61486--BP1		11332092	11/28/11
94	61487--BP2		11332094	11/28/11
95	61488--BP3		11332039	11/28/11
96	61489--BP4		11332085	11/28/11
97	61490--GPG		11332030	11/28/11
98	61491--HJ7AP		11332051	11/28/11
99	61492--H19AP		11332062	11/28/11
100	61493--H25AP		11332009	11/28/11
101	61494--H27AP		11332093	11/28/11
102	61495--AP		11332012	11/28/11
103	61496--H21AP		11332047	11/28/11
104	61497--H23AP		11332066	11/28/11
105	61498--AGP		11332083	11/28/11
106	61499--EP		11332020	11/28/11
107	61500--EPGE		11332078	11/28/11



Roof Plane Sheathing Area = 10080 sq. ft

Roof Plane Sheathing Area = 10233 sq. ft



WALL HEIGHTS

CROSSHATCH = 9'
HATCH = 10'
PLAIN = 12'

BOB JORDAN

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Page 1 of 1 Document ID:1UHF487-Z0328145612



Truss Fabricator: Anderson Truss Company
Job Identification: 11-209--Fill in later BOB JORDAN -- , **
Truss Count: 1
Model Code: Florida Building Code 2007 and 2009 Supplement
Truss Criteria: FBC2007Res/TPI-2002(STD)
Engineering Software: Alpine Software, Version 10.03.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-05 -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

-Truss Design Engineer-
Walter P. Finn

1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	61478--HJ7V		11332031	11/28/11

ALPINE

Top chord 2x4 SP #2 Dense : T1 2x4 SP #1:

Bot	chord	2x4	SP	#2	Dense
	Webs	2x4	SP	#3	

:Lt Bearing Leg 2x4 SP #3:

wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=-0.18
wind B, wind TC DL=5.0 psf, EXP
within 13.00 ft from roof edge, CAT II, EXP

Left cantilever is exposed to wind

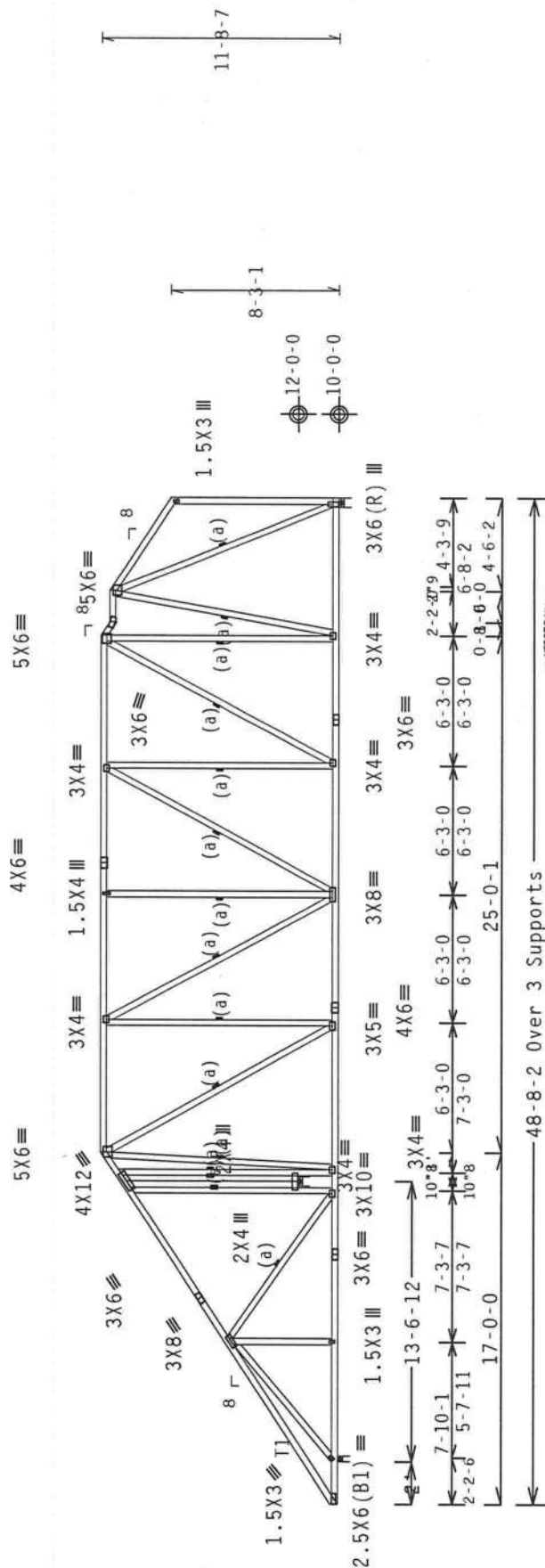
(a) Continuous lateral bracing equally spaced on member.

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

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

WARNING: Furnish a copy of this DWG to the installation contractor.

Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=780 U=0 W=3.5"
RL=208/-154

R=1911 U=119 W=5.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0))

Design Office: 06200/RCS/111 2002
FT/RT=10% (0%) / 0 (0)

Scale = .125"/Ft.

REF R487-- 61394

DATE 11/28/11

ORW HCUISDA87 11333201

ENC - ENC / DE / DE

	IC-ENG	DF/DF
IC-ENG	0.0000	0.0000
DF/DF	0.0000	0.0000

6EQN- 246694

REF- 1UHF487_Z03

1110 mph wind. 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

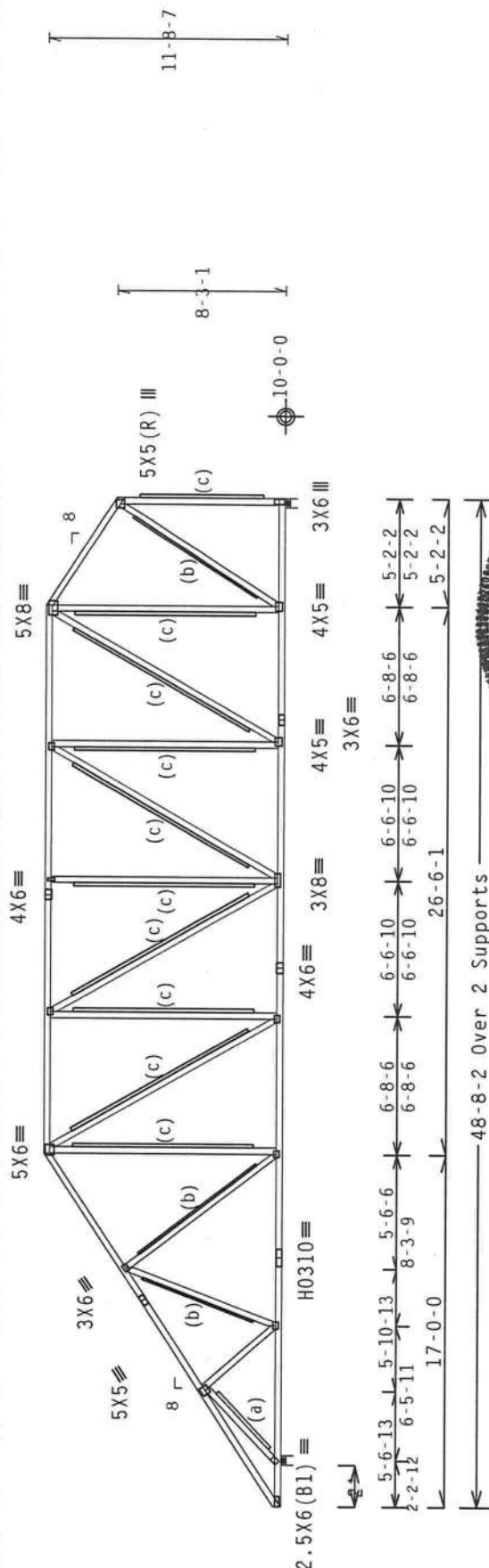
(c) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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.

Deflection meets L/240 live and L/180 total load.

MMFRS loads based on trusses located at least 16.04 ft. from roof edge.



R=2527 U=2 W=5.5"
RL=208/-155

Note: All Plates Are 3X4 Except As Shown.

PLT TYP. 20 Gauge HS, Wave

PLT TYP. 20 Gauge HS.Wave

10.03.2009

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

Scale = .125"/Ft.

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

Trosses require extreme care in fabricating, handling, shipping, installing and bracing. Ropes should be installed on the BESS building Component Safety Information, by TPI and NICA for proper installation. The following information is provided for the contractor's reference. The practices noted otherwise, top chord shall have properly attached structural sheathing, bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BESS sections 83, 87 or 810, as applicable.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

11/28/2011

This job's

JREF- 1UHF487 703

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	W20

Welds	2x4 SP	#3 :W20	2x4 SP	#2 Dense:
Welds	2x4 SP	#3 :W20	2x4 SP	#2 Dense:

Left cantilever is exposed to wind

(a) Continuous lateral bracing equally spaced on member.

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

Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 16.04 ft. from roof edge.

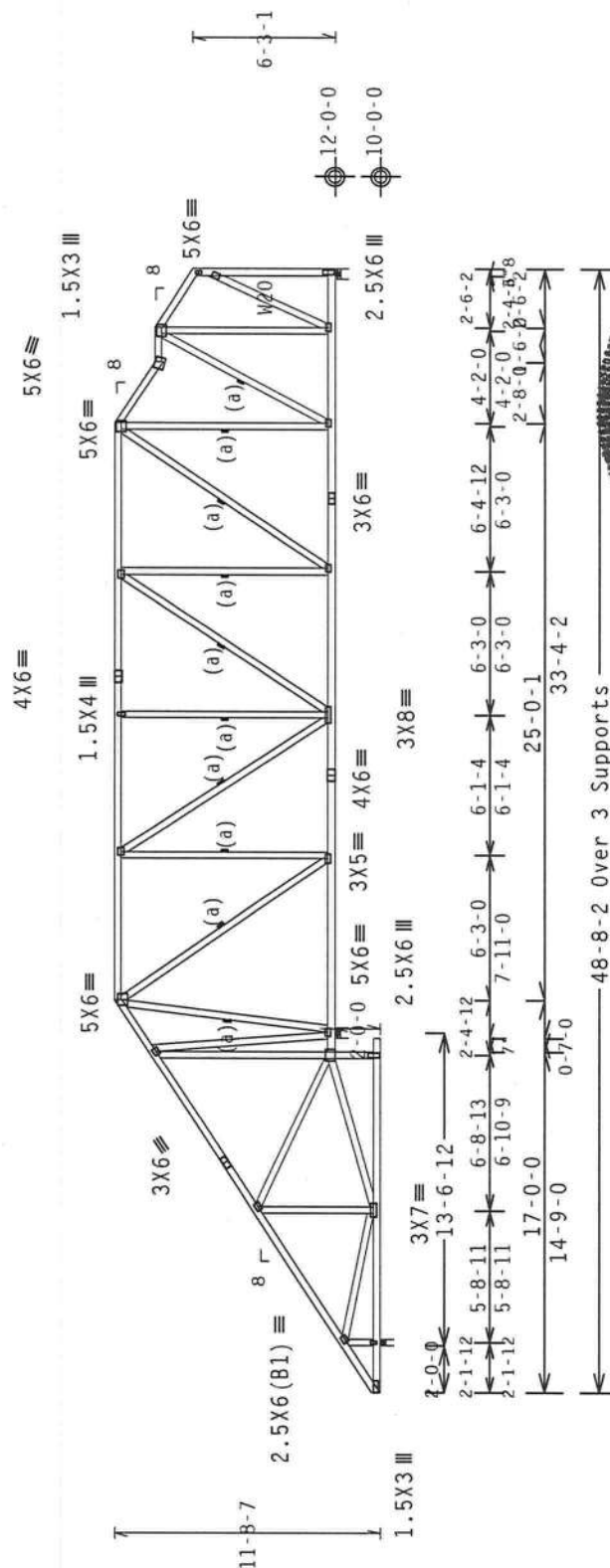
1110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpt (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=385 U=0 W=3.5"
RL=208/-154

R=2468 U=135 W=5.5"

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%) / 0(0)

PLT TYP. Wave

10:03 Monday QTY:

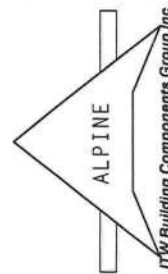
Scale = .125"/Ft.

****IMPORTANT****
 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 IPI and NICA for safety information. Trusses shall have a 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 83, 87 or 810, as applicable.

LTM Building Components Group Inc. (LBMCO) shall not be responsible for any deviation from the manufacturer's instructions for installation, erection or use of its products. LBMCO shall not be responsible for any failure to build the truss in accordance with ANSI/PPI 1, or for handling, shipping, installing, erecting or dismantling of trusses. Apply plates to each face of truss and position as shown above and on the joint details. Seal all joints with sealant. Refer to drawings 160A-2 for standard plate positions. A seal on the underside of the bottom chord is required. The sealant must be applied to the underside of the bottom chord drawing or cover plate 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/PPI Section 2.1. See also: This job's specifications.

LBMCO: www.lbmco.com; PPI: www.ppi.org; WCA: www.wcausa.com; USC: www.uscusa.org



Haines City, FL 33844
FL COA #0278

Haines City, FL 33844
FL COA #0278

Haines City, FL 33844
FL COA #0278



1107/87/11

24.0'

JREF- 1UHF487_Z03

2 COMPLETE TRUSSES REQUIRED

Na11 Schedule: 0.131"x3" nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows
in each row to avoid splitting

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

Calculated horizontal deflection is 0.38" due to live load and 0.41" due to dead load.

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

Deflection meets L/240 live and L/180 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

1110 mph wind. 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCp1(+/-)=0.18

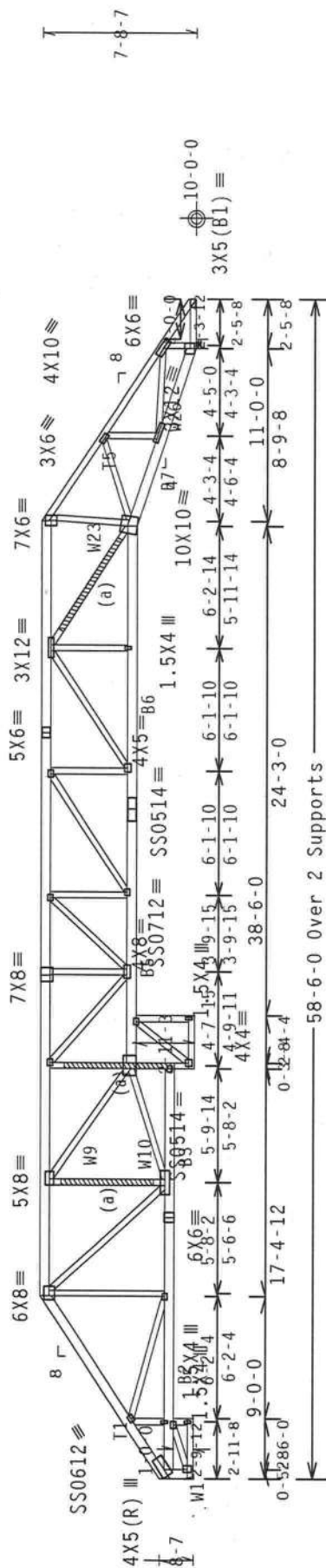
Right cantilever is exposed to wind

(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.

#1 hip supports 11-0-0 jacks w/2 panel TC and no end vert.

Left side jacks have 11-0-0 setback with 0-0-0 cant and 0-0-0 overhang. Right side jacks have 11-0-0 setback with 2-0-0 cant and 0-0-0 overhang.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.



R=5723 U=450

R=6242 U=490 W=5.5"

Note: All Plates Are 3X4 Except As Shown.

PLT TYP. 18 Gauge HS, Wave

Scale = .125"/Ft.

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.**

****IMPORTANT****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing, follow the latest edition of BCSP (Building Component Safety Program) and all applicable building codes. Trusses shall be installed 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 ceiling. Locations shown for permanent lateral restraint 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, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise. Refer to drawings 1600A-2 for standard plate positions. A seal on drawings is required. Page listing this drawing, indicates acceptance of professional engineering services by ITWBCG. ITWBCG shall not be responsible for the design or construction of the structure or 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.tpi.net.org; NTCA: www.ntcausa.org; ICC: www.iccsafe.org

11/28/2011

Top chord 2x4 SP #2 Dense :T1 2x6 SP #2:
:T3, T4 2x4 SP M-30:
Bot chord 2x4 SP #2 Dense :B2 2x6 SP #2:
:B5, B6 2x4 SP M-30:
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W8, W9, W22 2x4 SP #2 Dense:

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.

(c) #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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CL0SED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+)=0.18

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

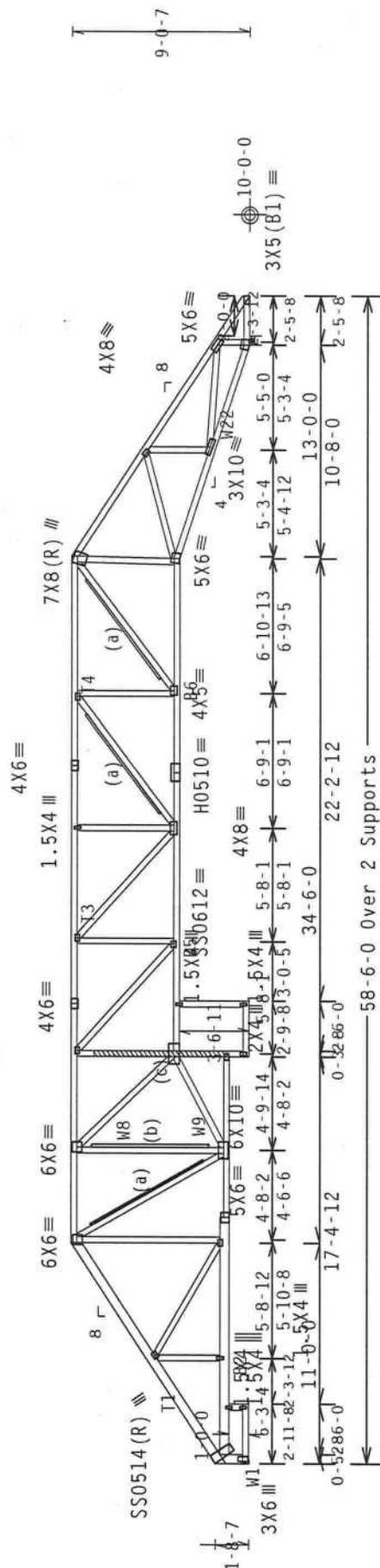
Calculated horizontal deflection is 0.35" due to live load and 0.39" due to dead load.

(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.

Deflection meets L/240 live and L/180 total load.

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



R=2351 U=217
RL=214/-222

R=2576 I=216 W=5.5"

Note: All Plates Are 3X4 Except As Shown.

PLT TYP. 20 Gauge HS.18 Gauge HS. Design Crit: FBC2007Res/TPI-2002(

Wave

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

OT-1 FL/-/4/-/-/R/-/-

$$\text{Scale} = .125"/\text{ft.}$$

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

IMPORTANT: FURNISH THIS DESIGN TO ALL COMPANIES INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. To avoid damage to trusses, please follow the latest edition of BGSI building Component Safety Information, by IPI and NICA, Inc., for proper handling and erecting instructions. Install all temporary bracing devices as shown in the drawings. All members must be properly attached to provide adequate support. Trusses shall have a properly attached rigid ceiling. Connections shown for permanent lateral restraint shall have bracing installed per BGSI sections B3, B7 or B10, as applicable.

ALPINE

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

Haines City, FL 33844
FL COA #0278

11/28/2011

NG 24.0"

JREF- 1UHF487 Z03

#2:	:	:B2	2x6	SP
#2:	:	:	Dense	
#2:	:	:	chord	2x4 SP
#2:	:	:	80t	

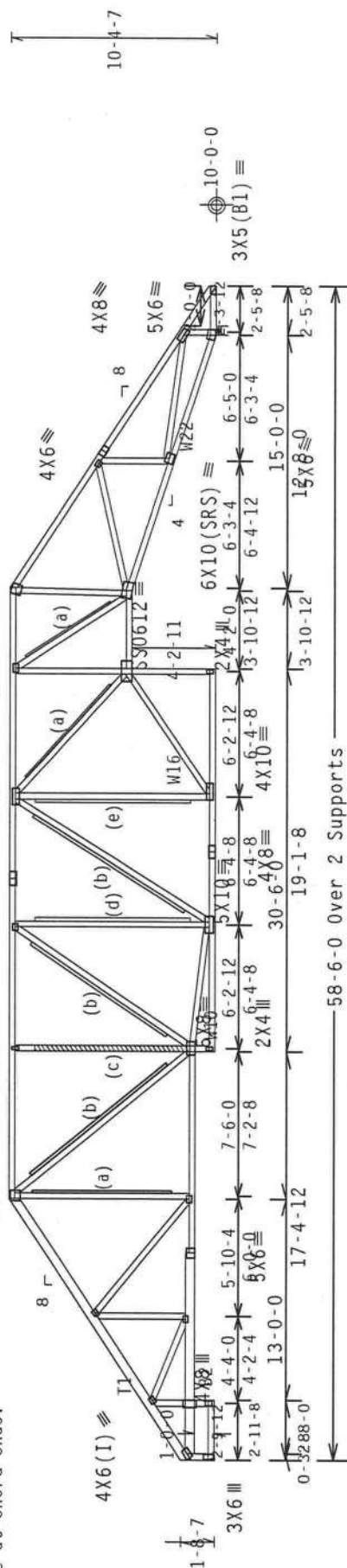
Webs 2x4 SP #3 :W10, W16, W22 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.25" due to live load and 0.28" due to dead load.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.



58-6-0 Over 2 Supports

R-2352 U-218

RI-2521-260

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. 18 Gauge HS. Wave

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

1

10.03.04.0601.16

OTY 1

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

Scale = 125"/Ft.

****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. To follow the latest edition of BCSI (Building Component Safety Information, by TPI and NCA) practices prior to performing these functions. Installers shall provide temporary bracing and shoring as needed. Otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached roof ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 43, 87 or 810, as applicable, as applicable.

[illegible]

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

Haines City, FL 33844

FL COA #0 278

FL COA #0278

11/28/2011

24.0"

REF- 1UHF4

REF- 1UHF487 Z03

110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

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

Right end vertical not exposed to wind pressure.

(c) 2x6 #3 or better "I" 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.

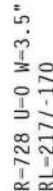
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

MMWFRS loads based on trusses located at least 16.04 ft. from roof edge.

lateral brace at chord ends.

lateral brace at chord ends.



2

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0))

10.03.2003. 10.03.2003.

FL / - / 4 / - / - / R / - / - / Scale = .125" / Ft.

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

...

REF R487-- 61401

and bracing. Refer to and

DATE 11/00/11

IPI and WTCA) for safety

11/82/11

nothing and bottom

WU 11332081

lateral restraint.

PROFESSOR JOHN M.

deviation from this

HC-ENG DF/DF

g. shipping. installer. 3

1000

above and on the joint positions. A seal on the

5EQN- 246626

mal engineering

design for any structure is information see: This job's

100

...industry.com;

JREF- 1UHF487 703

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1
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4
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E
N

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

Left cantilever is exposed to wind

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

(d) 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.

(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.

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.

MMWFRS loads based on trusses located at least 32.08 ft. from roof edge.

Negative reaction(s) of -236# MAX. (See below) from a non-wind load case requires uplift connection.

1110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

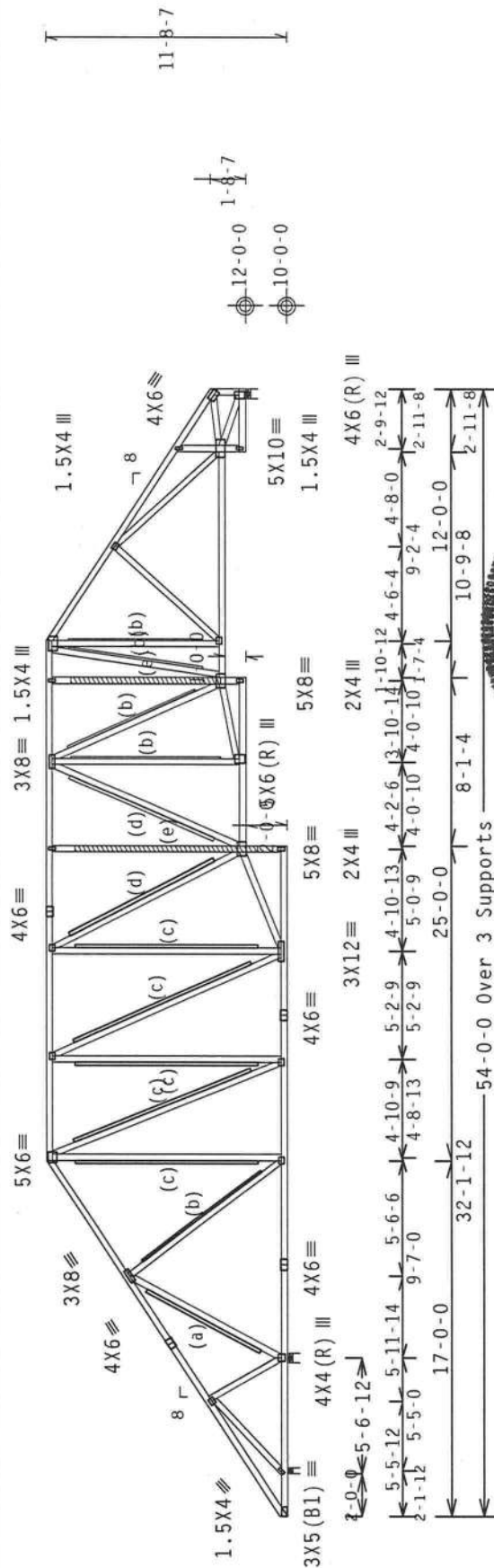
Wind loads and reactions based on MWFRS with additional C&C member design.

(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.

(e) #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.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x24"-wide clearance.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=-237 RW=94 U=75 W=3.5"

R1=252 / -23R=3206 U=85 W=5.5"

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

••IMPORTANT••

Trusses require extreme care in factoring, handling, shipping, installing and bracing. Please follow the latest edition of BGSI (Building Component Safety Information, by IPT and KICA) for all trussing practices prior to performing these functions. Installers shall provide temporary bracing per BGSI. Trusses shall have a 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 BGSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this drawing. The user of this drawing shall be responsible for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, or erecting the truss. Apply plates to each face of truss and position as shown above and on the Joint Detail Drawing. The user of this drawing shall be responsible for any failure to follow the instructions, details, or cover page listing this drawing. Indicates acceptance of professional engineering responsibility for the design and use of the building. The user of this drawing shall be responsible for the building. For more information on ITW Building Components Group Inc. (ITWBCG), visit the Building Components Group website at: www.itwbcg.com; PII: www.spinfast.org; NICA: www.spinindustry.com; ICC: www.iccsafe.org

Scale = .125"/Ft.

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

10:03 AM 09/28/20

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

Design Clinic.

PIT TYP. Wave



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

****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. Please read and follow the latest edition of BCSP (Building Component Safety) Information, by IPI and NICA for safety and bracing details. Trusses are designed to be installed in a vertical position. Trusses are not to be installed 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 properly installed per BCSP sections B3, B7 or B10, as applicable.

IIM Building Components Group Inc. (IIMBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/IPI 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 1609-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility by the engineer of record. For more information see: www.ansi.org or www.1609.com. For the building designer per ANSI/IPI 1, Sec. 2 for more information see: This Job's General Notes. IIM-BCG: www.iimbcg.com; IPI: www.ipi.net; NICA: www.nicaindustry.com; ICC: www.iccsafe.org

11/28/2011

TC LL	20.0	PSF
TC DL	10.0	PSF
BC DL	10.0	PSF
BC LL	0.0	PSF
TOT.LD.	40.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	

REF	R487--	61403
DATE	11/28/11	
DRW	HCUSR487	11332067
HC-ENG	DF/DF	
SEQN-	246479	
JREF-	1UHF487_Z03	

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3		

(d) 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.

(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.

Deflection meets L/240 live and L/180 total load.

WWFRS loads based on trusses located at least 16.04 ft. from roof edge.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpl (+/-)=0.18

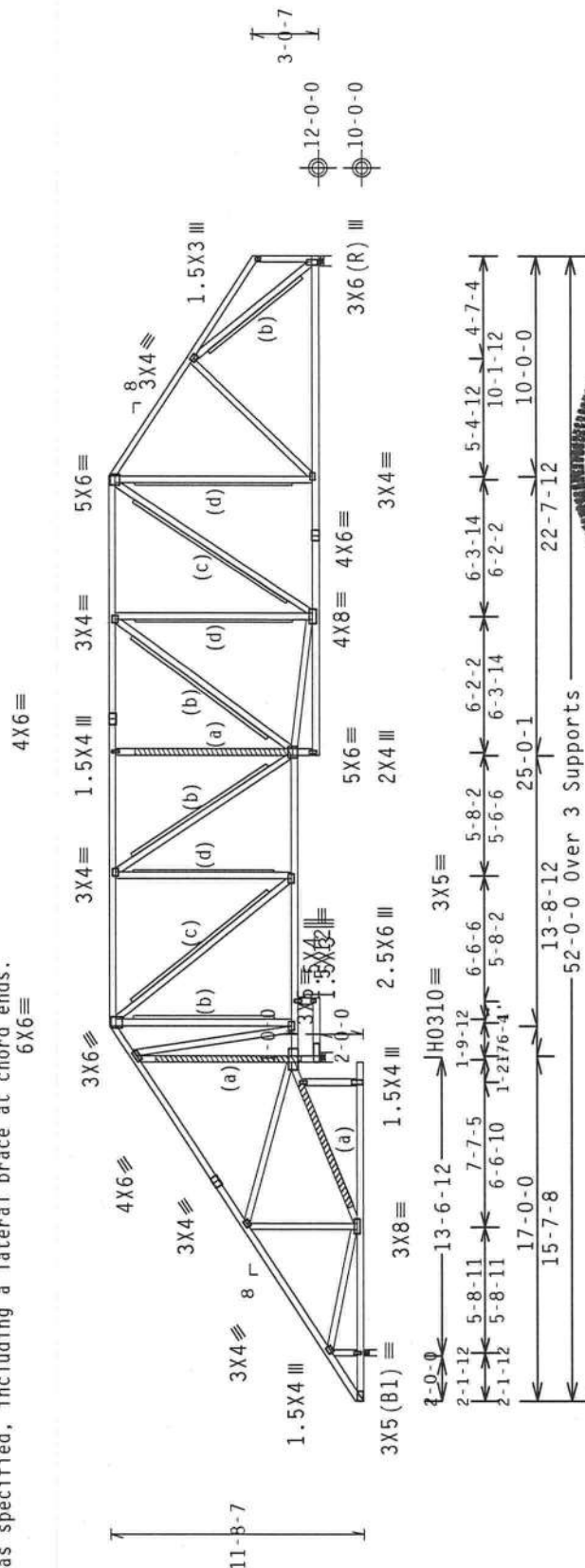
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=696 U=0 W=3.5"
RL=238/-208

R=2160 U=100 W=5.5"

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0))

Scale = .125"/Ft.

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

10.03.2006 QTY:

10

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

11.

Design Cr

Wave

HS

0 Gauge

YP, 20

PLT TW

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. To follow the latest edition of BCSI (Building Component Safety) information, by API and AISC, the following items must be noted: (1) Top chord shall have properly attached structural sheathing and bracing. (2) Bottom chord shall have a properly attached rigid ceiling. (3) Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITV Building Components Group Inc. (IUBCO) shall not be responsible for any deviation from the design shown or any failure to build the truss in conformance with ANSI/TPI-1, or for handling, shipping, installation or erection details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the bottom chord of each truss indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the user's responsibility.

For more information:
General sales page: www.16cbsafe.org
Technical specifications: www.16ctech.com
Product literature: www.16cprod.com
Member rates: www.16cmembership.org
Insurance: www.16cinsur.com
TPI: www.tpi.net; www.16ctapi.org; www.16cindustry.com

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

Haines City, FL 33844
FL COA #0278

(11-209--Fill in later BOB JORDAN -- , ** - AT1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left 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.

(d) 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.

(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.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpl(+/-)-0.18

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

Right end vertical not exposed to wind pressure.

(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.

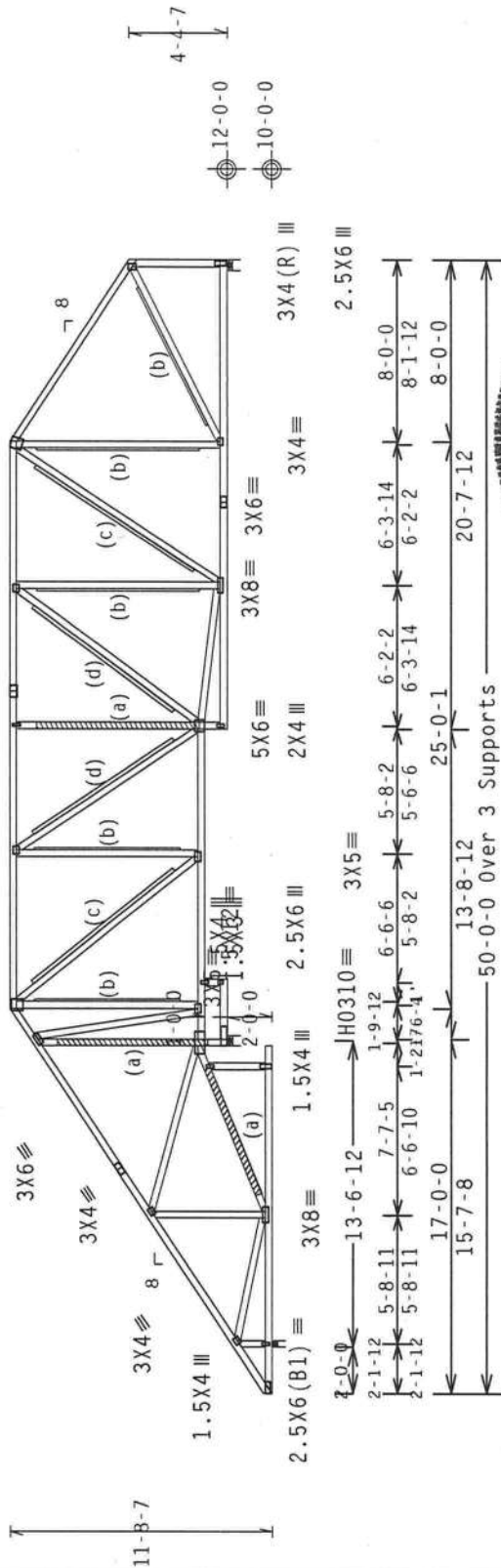
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 16.04 ft. from roof edge.

4X6=

3X6= 3X4= 1.5X4 III 3X4= 6X6=



R=719 U=0 W=3.5"
RL=225/-185

R=2047 U=111 W=5.5"

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

Scale =.125"/Ft.

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

QTY=1

100-03-04-0601-16
No. 22836

REF R487-- 61408

DATE 11/28/11

DRW HCUR487 11332076

HC-ENG DF/DF

SEQN- 246629

JREF- 1UHF487_Z03

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

WALTER P. FINN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
11/28/2011

IMPORTANT** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bolted connections. Bottom chord shall have properly attached structural sheathing and bolted connections. BCSI 87 or B18, as applicable.
iTW Building Components Group Inc. (iTWBCG) shall not be responsible for any deviation from 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; ITW-BCG; www.itwbcg.com; TPI: www.tpiinst.org; NICA: www.nicaindustry.com; ICC: www.iccsafe.org

Bot	chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	W13,	W19 2x4 SP #2 Dense:

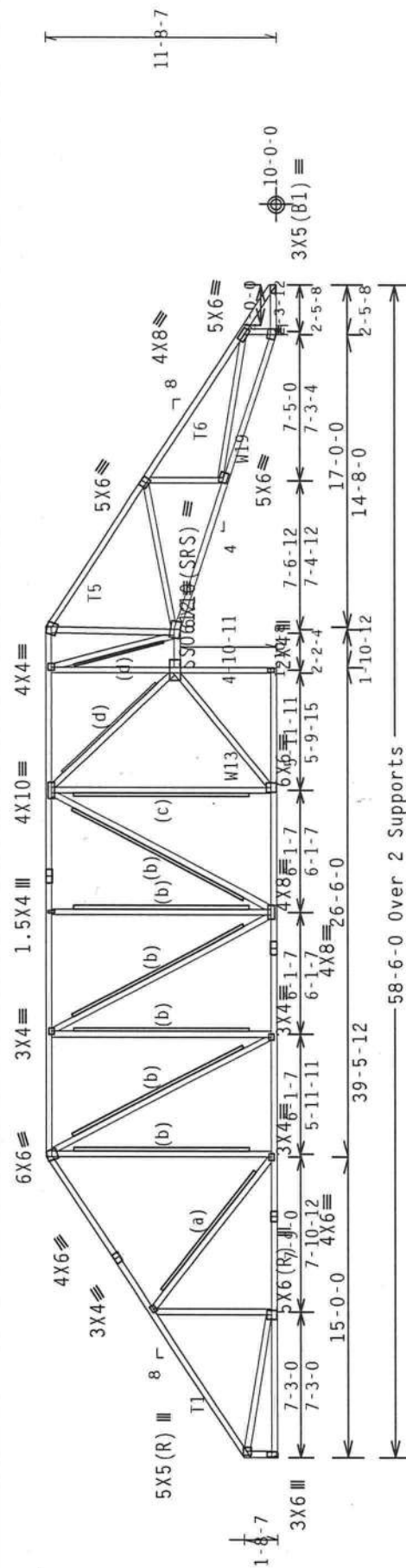
Calculated horizontal deflection is 0.23" due to live load and 0.25" due to dead load.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

 $4 \times 8 =$

7X6(R) III



R=2352 U=0
RI=291 / -300

R=2580 I=0 W=5.5"

P.L.T. TYP.: 18 Gauge HS.Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10% (0%) / 0 (0)FL/-/4/-/-/R/-
Scale = .125"/Ft.

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

Process, require extreme care in fabricating, bending, aligning, installing or bracing. Follow the latest edition of BCSP (Building Component Safety Information, by TPI and NICA) for safety and proper installation. The manufacturer shall provide temporary bracing per BCSP. The manufacturer shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraining shall have bracing installed per BCSP sections 83, 87 or B10, as applicable.

IW Building Components Group Inc. (IWBGCB) shall not be responsible for any deviation from the manufacturer's instructions. IWBGCB shall not be responsible for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or erecting of trusses. Apply plates to each face of truss and position as shown above and on the following drawings, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the bottom chord and cover plate listing the 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 design engineer. For information, contact: IWBGCB, 11000 Hwy. 101, Suite 100, Tualatin, OR 97056. General notes page: TPI - www.tpinet.org; NICA - www.sbcindustry.com; IWBGCB - www.iwbgroup.com; www.16CS4.org



ALPINE

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

Haines City, FL 33844
FL COA #0278

JREF- 1UHF487_Z03

(11-209--Fill in later BOB JORDAN -- , ** - H17AV)

Top chord 2x4 SP #2 Dense :T1, T5 2x4 SP M-30:
:T6 2x4 SP #1:
Bot chord 2x4 SP #2 Dense :B4, B5 2x4 SP M-30:
Webs 2x4 SP #3 :W13, W19 2x4 SP #2 Dense:

Right cantilever is exposed to wind

Calculated horizontal deflection is 0.25" due to live load and 0.28" due to dead load.

(b) 2x6 #3 or better "I" 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.

Deflection meets L/240 live and L/180 total load.

MMFRS loads based on trusses located at least 16.04 ft. from roof edge.

110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf(+/-)=0.18

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

(a) 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.

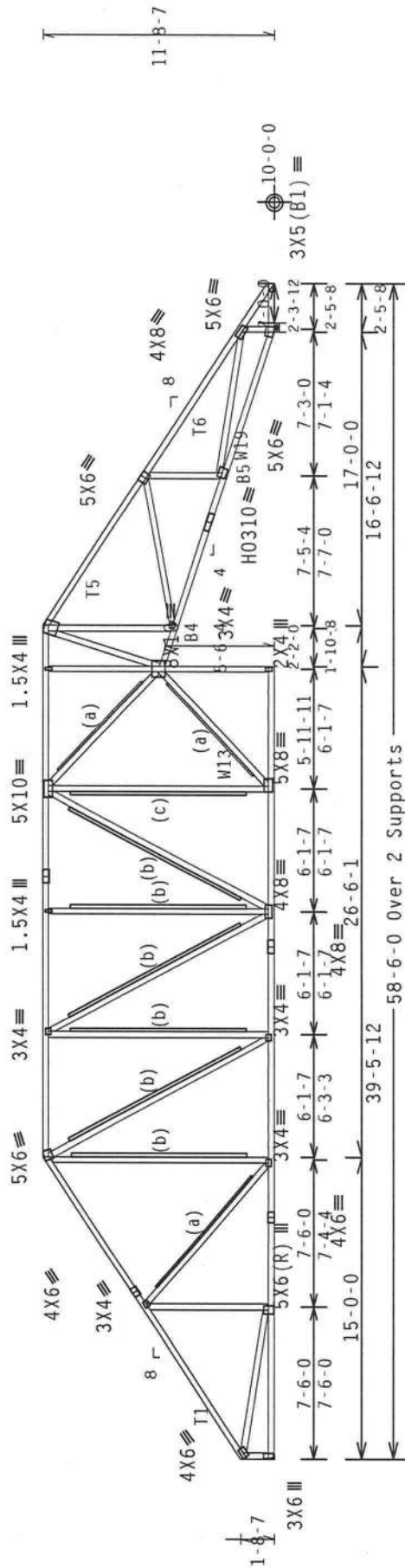
(c) 2x8 #3 or better "I" brace, 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

8X8(R) III

4X8=



R-2353 U-0
RL-295/-303

R-2581 U-0 W-5.5"

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2007Res/TPI-2002 (STR)
FT/RT=10%(0%)/0(0)

Scale = .125"/Ft.

FL/-/4/-/R/-

QTY 1

10-03-04 060136
16-22836

10-03-04 060136
16-22836

10-03-04 060136
16-22836

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10-03-04 060136
16-22836

10-03-04 060136
16-22836

PLT TYP. 20 Gauge HS.Wave		Design Crit: FBC2007Res/TPI-2002 (STR) FT/RT=10%(0%)/0(0)		Scale = .125"/Ft.	
R-2353 U-0 RL-295/-303		R-2581 U-0 W-5.5"		REF R487-- 61410	
ALPINE		WATER P. FINN LICENSE STATE OF FLORIDA PROFESSIONAL ENGINEER		DATE 11/28/11	
ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278		11/28/2011		DRW HCUR487 11332045	
				HC-ENG DF/DF	
				SEQN- 246190	
				DUR.FAC. 1.25	
				JREF- 1UHF487_Z03	

110 mph wind, 16.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf(+/-)=0.18

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

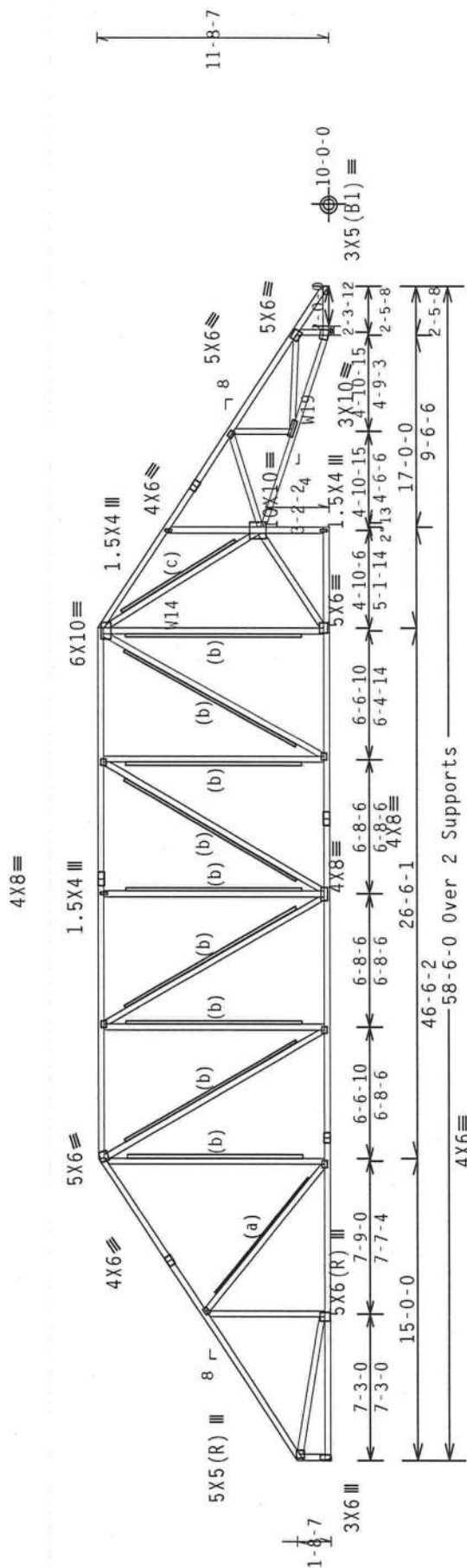
(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.) nails @ 6" OC.

(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.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation.

Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=2575 U=0 W=5.5"

hown.

Design Crit: FBC2007Res/TPI-2002(STD)

10.03.010622839

Scale = .125"/Ft.

****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 IPI and NICA) for safety precautions prior to performing these functions. Installers shall provide temporary bracing per BCSP. Business notices otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Ceilings shown for permanent lateral restraint shall have bracing installed per BCSP sections 83, 87 or 810, as applicable.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
Ft. COA #0778

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 25114
John L. Burt

Haines City, FL 33844
FL COA #0278

JREF- 1UHF487 703

(11-209--fill in later BOB JORDAN -- . ** - H11B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are 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.

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

Deflection meets L/240 live and L/180 total load.

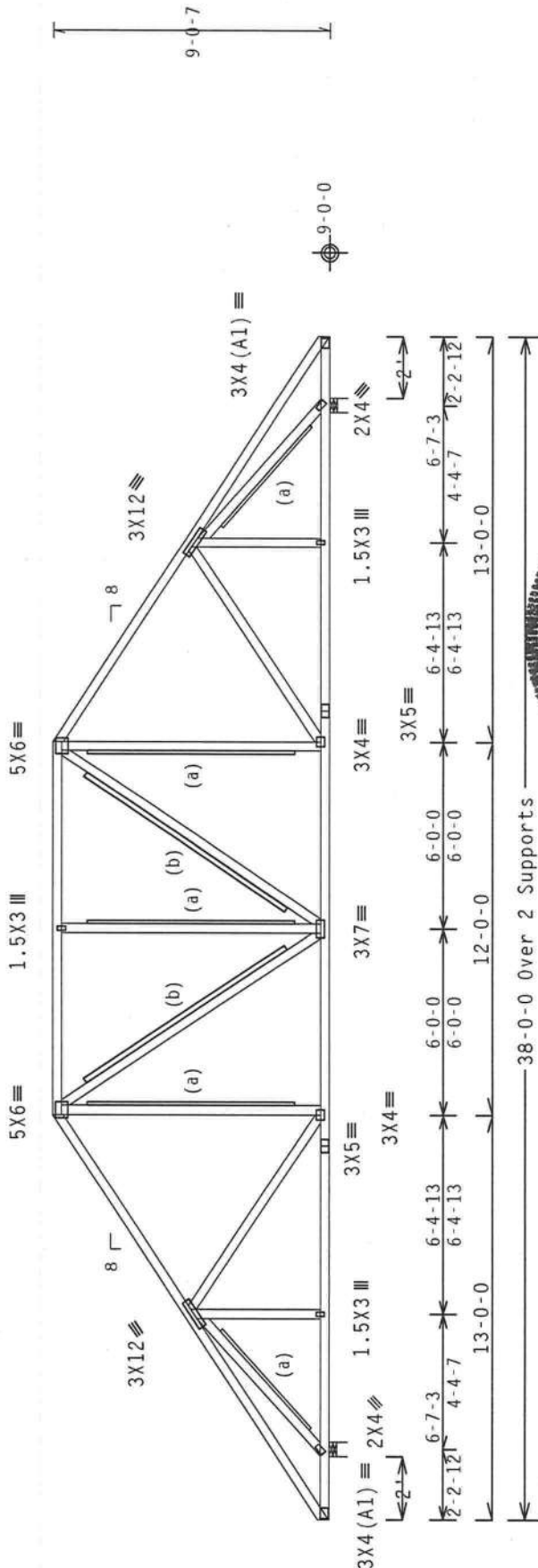
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge. CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpf(+/-)=0.18

Wind loads and reactions based on MMFRS 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.

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



R-1597 U-125 W-5.5"
RL-203/-203

R-1597 U-125 W-5.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

10.03. No. 0028300

Scale = .1875"/Ft.

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

TC LL

TC DL

BC DL

BC LL

TOT.LD.

DUR.FAC.

SPACING

20.0 PSF

10.0 PSF

10.0 PSF

0.0 PSF

40.0 PSF

1.25

24.0"

REF R487-- 61414

DATE 11/28/11

DRW HCUSR487 11332054

HC-ENG DF/DF

SEQN- 245243

JREF- 1UHF487_Z03

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. The safety of the building depends on the proper installation of the trusses. The truss manufacturer is responsible for providing the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) and for ensuring that the trusses are properly installed and braced. The truss manufacturer is also responsible for providing the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) and for ensuring that the trusses are properly installed and braced. The truss manufacturer is also responsible for providing the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) and for ensuring that the trusses are properly installed and braced.

any failure to build the truss in accordance with ANSI/AISC 1.1 for handling, shipping, installing and bracing. The truss manufacturer is responsible for providing the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) and for ensuring that the trusses are properly installed and braced. The truss manufacturer is also responsible for providing the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) and for ensuring that the trusses are properly installed and braced. The truss manufacturer is also responsible for providing the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) and for ensuring that the trusses are properly installed and braced.

ALPINE

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



(11-209--Fill in later BOB JORDAN -- , ** - H138)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are 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.

(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.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

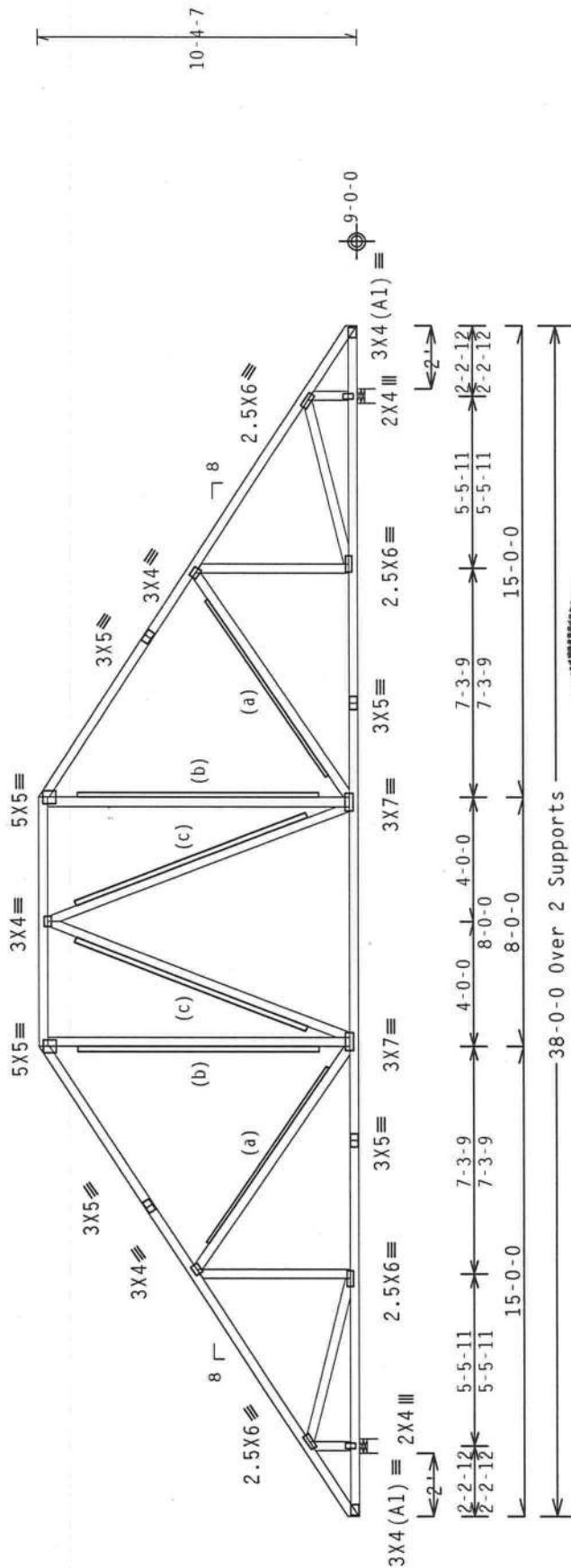
Wind loads and reactions based on MWFRS with additional C&C member design.

(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.

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 15.00 ft. from roof edge.



R=1685 U-0 W-5.5"
RL=234/-234

R=1685 U-0 W-5.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10% (0%)/0 (0)

Scale = .1875"/Ft.

ALPINE rwBuilding Components Group Inc. Haines City, FL 33844 FL COA #0 278	NO. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER 11/28/2011										TC LL	20.0	PSF	REF	R487 - -	61415
	TC DL	10.0	PSF	DATE	11/28/11											
	BC DL	10.0	PSF	DRW	HCUSR487	11332065										
	BC LL	0.0	PSF	HC-ENG	DF/DF											
	TOT.L.D.	40.0	PSF	SEQN-	245251											
	DUR.FAC.	1.25														
	SPACING	24.0"		JREF-	1UHF487_Z03											
	NO. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER 11/28/2011										NO. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER 11/28/2011					
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NO. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER 11/28/2011																

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

Left 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.

(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.

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.

11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1 (+/-)=-0.18

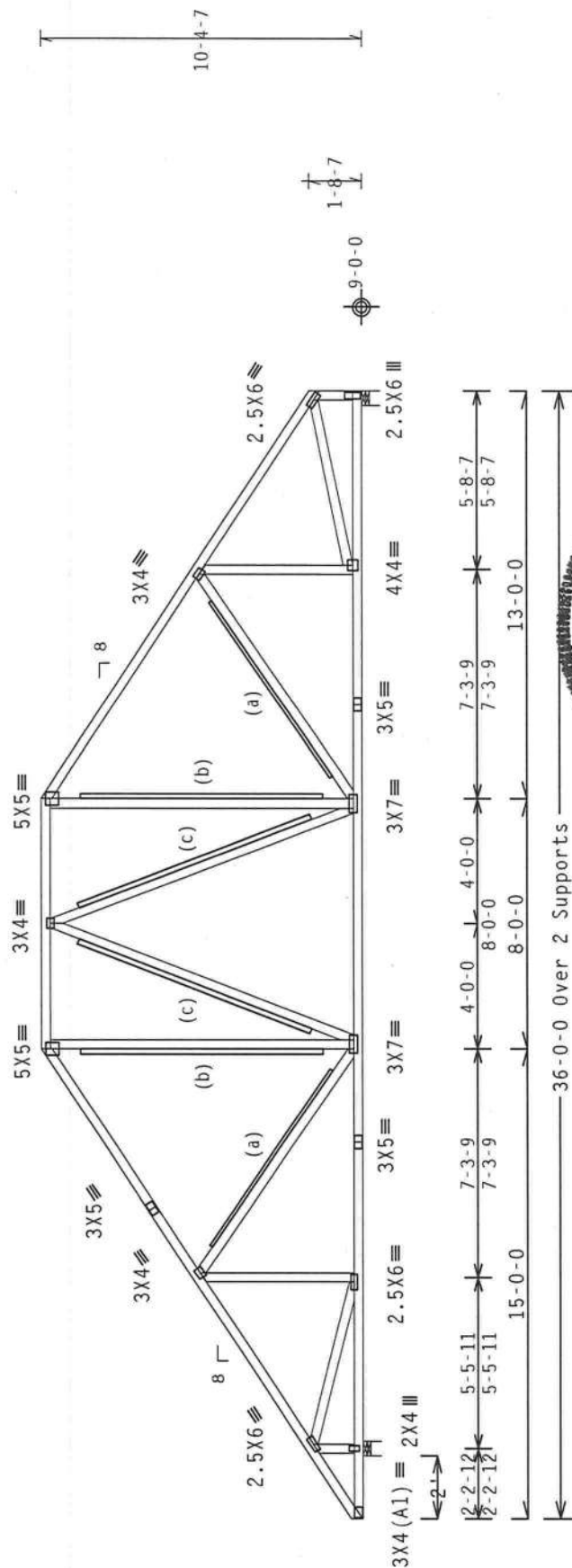
Wind loads and reactions based on MWFRS with additional C&C member design.

(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.

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.



R=1701 H=0 W=5 5"

RL-2221-212



Design Crit. EBC2007Res/TPI-2002/STD

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

PLT TYP. Wave

Scale = .1875"/Ft.

* * * WARNING * * * READ AND FOLLOW ALL NOTES ON THIS SHEET!
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For more information, contact your nearest BCSI distributor or write to BCSI, P.O. Box 100, 10000 BCSI Drive, Dallas, TX 75243. BCSI is an Equal Opportunity Employer. BCSI is a registered provider of continuing education for the International Board of Standards and Practices for Certified Insulation Installers (IBS-CI).

[illegible]

TC 11	20 0 PSE
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[illegible]

10.0 PSF

3C DL 10.0 PSF

	0	0	DCE
DC	1	1	
DC	0	0	DCE

0.0 P3F

TOT.LD. 40.0 PSF

OUR FAC	1 25

0.717

SPACING 24.0"

100

(11-209--Fill in later BOB JORDAN -- , ** - B2)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(a) 1x4 #3SRB SPF-S or better "I" brace. 80% length of web member. Attach with 16d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

(b) 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.

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

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

MMFRS loads based on trusses located at least 15.04 ft. from roof edge.

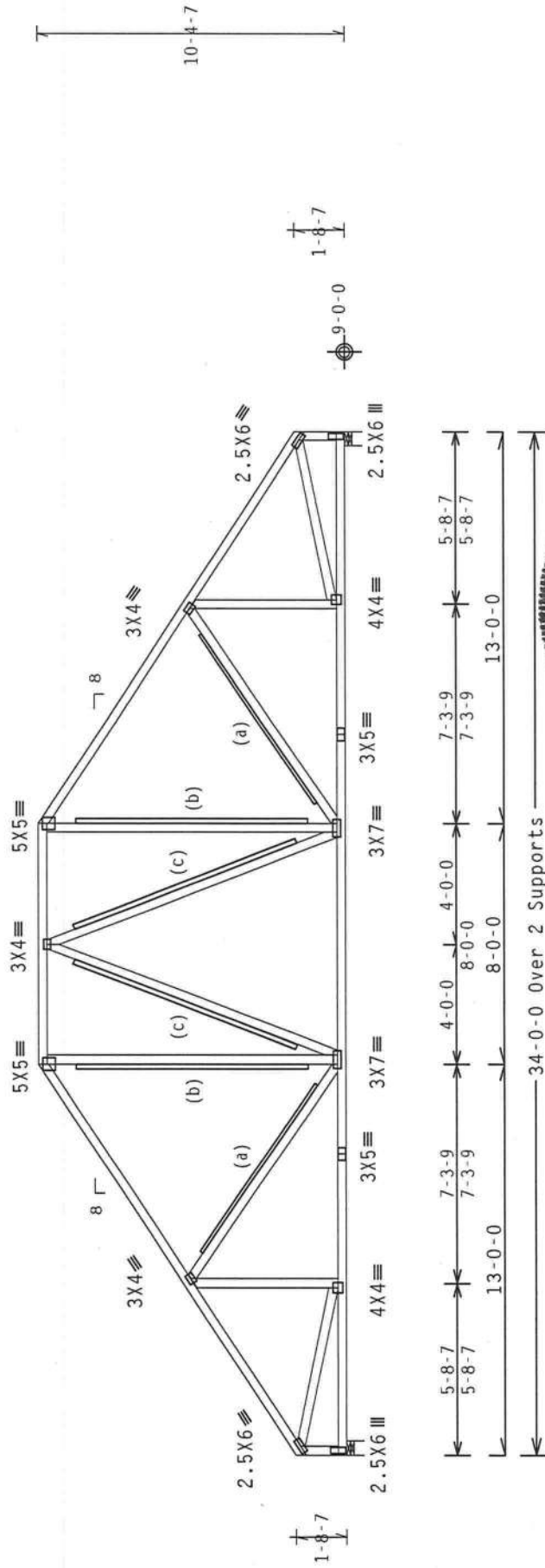
110 mph wind, 15.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge. CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)-0.18

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

(c) 2x6 #3 or better "I" 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.



R=1517 U=0 W=5.5"
RL=199/-199

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%/0(0)

Scale = .1875"/Ft.

FL/-4/-/-R/-

QTY7

102.03.04.05.06.07.08.09.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.1046.1047.1048.1049.1050.1051.1052.1053.1054.1055.1056.1057.1058.1059.1060.1061.1062.1063.1064.1065.1066.1067.1068.1069.1070.1071.1072.1073.1074.1075.1076.1077.1078.1079.1080.1081.1082.1083.1084.1085.1086.1087.1088.1089.1090.1091.1092.1093.1094.1095.1096.1097.1098.1099.1100.1101.1102.1103.1104.1105.1106.1107.1108.1109.1110.1111.1112.1113.1114.1115.1116.1117.1118.1119.1120.1121.1122.1123.1124.1125.1126.1127.1128.1129.1130.1131.1132.1133.1134.1135.1136.1137.1138.1139.1140.1141.1142.1143.1144.1145.1146.1147.1148.1149.1150.1151.1152.1153.1154.1155.1156.1157.1158.1159.1160.1161.1162.1163.1164.1165.1166.1167.1168.1169.1170.1171.1172.1173.1174.1175.1176.1177.1178.1179.1180.1181.1182.1183.1184.1185.1186.1187.1188.1189.1190.1191.1192.1193.1194.1195.1196.1197.1198.1199.1200.1201.1202.1203.1204.1205.1206.1207.1208.1209.1210.1211.1212.1213.1214.1215.1216.1217.1218.1219.1220.1221.1222.1223.1224.1225.1226.1227.1228.1229.1230.1231.1232.1233.1234.1235.1236.1237.1238.1239.1240.1241.1242.1243.1244.1245.1246.1247.1248.1249.1250.1251.1252.1253.1254.1255.1256.1257.1258.1259.1260.1261.1262.1263.1264.1265.1266.1267.1268.1269.1270.1271.1272.1273.1274.1275.1276.1277.1278.1279.1280.1281.1282.1283.1284.1285.1286.1287.1288.1289.1290.1291.1292.1293.1294.1295.1296.1297.1298.1299.1300.1301.1302.1303.1304.1305.1306.1307.1308.1309.1310.1311.1312.1313.1314.1315.1316.1317.1318.1319.1320.1321.1322.1323.1324.1325.1326.1327.1328.1329.1330.1331.1332.1333.1334.1335.1336.1337.1338.1339.1340.1341.1342.1343.1344.1345.1346.1347.1348.1349.1350.1351.1352.1353.1354.1355.1356.1357.1358.1359.1360.1361.1362.1363.1364.1365.1366.1367.1368.1369.1370.1371.1372.1373.1374.1375.1376.1377.1378.1379.1380.1381.1382.1383.1384.1385.1386.1387.1388.1389.1390.1391.1392.1393.1394.1395.1396.1397.1398.1399.1400.1401.1402.1403.1404.1405.1406.1407.1408.1409.1410.1411.1412.1413.1414.1415.1416.1417.1418.1419.1420.1421.1422.1423.1424.1425.1426.1427.1428.1429.1430.1431.1432.1433.1434.1435.1436.1437.1438.1439.1440.1441.1442.1443.1444.1445.1446.1447.1448.1449.1450.1451.1452.1453.1454.1455.1456.1457.1458.1459.1460.1461.1462.1463.1464.1465.1466.1467.1468.1469.1470.1471.1472.1473.1474.1475.1476.1477.1478.1479.1480.1481.1482.1483.1484.1485.1486.1487.1488.1489.1490.1491.1492.1493.1494.1495.1496.1497.1498.1499.1500.1501.1502.1503.1504.1505.1506.1507.1508.1509.1510.1511.1512.1513.1514.1515.1516.1517.1518.1519.1520.1521.1522.1523.1524.1525.1526.1527.1528.1529.1530.1531.1532.1533.1534.1535.1536.1537.1538.1539.1540.1541.1542.1543.1544.1545.1546.1547.1548.1549.1550.1551.1552.1553.1554.1555.1556.1557.1558.1559.1560.1561.1562.1563.1564.1565.1566.1567.1568.1569.1570.1571.1572.1573.1574.1575.1576.1577.1578.1579.1580.1581.1582.1583.1584.1585.1586.1587.1588.1589.1590.1591.1592.1593.1594.1595.1596.1597.1598.1599.1600.1601.1602.1603.1604.1605.1606.1607.1608.1609.1610.1611.1612.1613.1614.1615.1616.1617.1618.1619.1620.1621.1622.1623.1624.1625.1626.1627.1628.1629.1630.1631.1632.1633.1634.1635.1636.1637.1638.1639.1640.1641.1642.1643.1644.1645.1646.1647.1648.1649.1650.1651.1652.1653.1654.1655.1656.1657.1658.1659.1660.1661.1662.1663.1664.1665.1666.1667.1668.1669.1670.1671.1672.1673.1674.1675.1676.1677.1678.1679.1680.1681.1682.1683.1684.1685.1686.1687.1688.1689.1690.1691.1692.1693.1694.1695.1696.1697.1698.1699.1700.1701.1702.1703.1704.1705.1706.1707.1708.1709.1710.1711.1712.1713.1714.1715.1716.1717.1718.1719.1720.1721.1722.1723.1724.1725.1726.1727.1728.1729.1730.1731.1732.1733.1734.1735.1736.1737.1738.1739.1740.1741.1742.1743.1744.1745.1746.1747.1748.1749.1750.1751.1752.1753.1754.1755.1756.1757.1758.1759.1760.1761.1762.1763.1764.1765.1766.1767.1768.1769.1770.1771.1772.1773.1774.1775.1776.1777.1778.1779.1780.1781.1782.1783.1784.1785.1786.1787.1788.1789.1790.1791.1792.1793.1794.1795.1796.1797.1798.1799.1800.1801.1802.1803.1804.1805.1806.1807.1808.1809.1810.1811.1812.1813.1814.1815.1816.1817.1818.1819.1820.1821.1822.1823.1824.1825.1826.1827.1828.1829.1830.1831.1832.1833.1834.1835.1836.1837.1838.1839.1840.1841.1842.1843.1844.1845.1846.1847.1848.1849.1850.1851.1852.1853.1854.1855.1856.1857.1858.1859.1860.1861.1862.1863.1864.1865.1866.1867.1868.1869.1870.1871.1872.1873.1874.1875.1876.1877.1878.1879.1880.1881.1882.1883.1884.1885.1886.1887.1888.1889.1890.1891.1892.1893.1894.1895.1896.1897.1898.1899.1900.1901.1902.1903.1904.1905.1906.1907.1908.1909.1910.1911.1912.1913.1914.1915.1916.1917.1918.1919.1920.1921.1922.1923.1924.1925.1926.1927.1928.1929.1930.1931.1932.1933.1934.1935.1936.1937.1938.1939.1940.1941.1942.1943.1944.1945.1946.1947.1948.1949.1950.1951.1952.1953.1954.1955.1956.1957.1958.1959.1960.1961.1962.1963.1964.1965.1966.1967.1968.1969.1970.1971.1972.1973.1974.1975.1976.1977.1978.1979.1980.1981.1982.1983.1984.1985.1986.1987.1988.1989.1990.1991.1992.1993.1994.1995.1996.1997.1998.1999.2000.2001.2002.2003.2004.2005.2006.2007.2008.2009.2010.2011.2012.2013.2014.2015.2016.2017.2018.2019.2020.2021.2022.2023.2024.2025.2026.2027.2028.2029.2030.2031.2032.2033.2034.2035.2036.2037.2038.2039.2040.2041.2042.2043.2044.2045.2046.2047.2048.2049.2050.2051.2052.2053.2054.2055.2056.2057.2058.2059.2060.2061.2062.2063.2064.2065.2066.2067.2068.2069.2070.2071.2072.2073.2074.2075.2076.2077.2078.2079.2080.2081.2082.2083.2084.2085.2086.2087.2088.2089.2090.2091.2092.2093.2094.2095.2096.2097.2098.2099.2100.2101.2102.2103.2104.2105.2106.2107.2108.2109.2110.2111.2112.2113.2114.2115.2116.2117.2118.2119.2120.2121.2122.2123.2124.2125.2126.2127.2128.2129.2130.2131.2132.2133.2134.2135.2136.2137.2138.2139.2140.2141.2142.2143.2144.2145.2146.2147.2148.2149.2150.2151.2152.2153.2154.2155.2156.2157.2158.2159.2160.2161.2162.2163.2164.2165.2166.2167.2168.2169.2170.2171.2172.2173.2174.2175.2176.2177.2178.2179.2180.2181.2182.2183.2184.2185.2186.2187.2188.2189.2190.2191.2192.2193.2194.2195.2196.2197.2198.2199.2200.2201.2202.2203.2204.2205.2206.2207.2208.2209.2210.2211.2212.2213.2214.2215.2216.2217.2218.2219.2220.2221.2222.2223.2224.2225.2226.2227.2228.2229.2230.2231.2232.2233.2234.2235.2236.2237.2238.2239.2240.2241.2242.2243.2244.2245.2246.2247.2248.2249.2250.2251.2252.2253.2254.2255.2256.2257.2258.2259.2260.2261.2262.2263.2264.2265.2266.2267.2268.2269.2270.2271.2272.2273.2274.2275.2276.2277.2278.2279.2280.2281.2282.2283.2284.2285.2286.2287.2288.2289.2290.2291.2292.2293.2294.2295.2296.2297.2298.2299.2300.2301.2302.2303.2304.2305.2306.2307.2308.2309.2310.2311.2312.2313.2314.2315.2316.2317.2318.2319.2320.2

(11-209--Fill in later BOB JORDAN -- , ** - BT1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

End verticals not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

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.

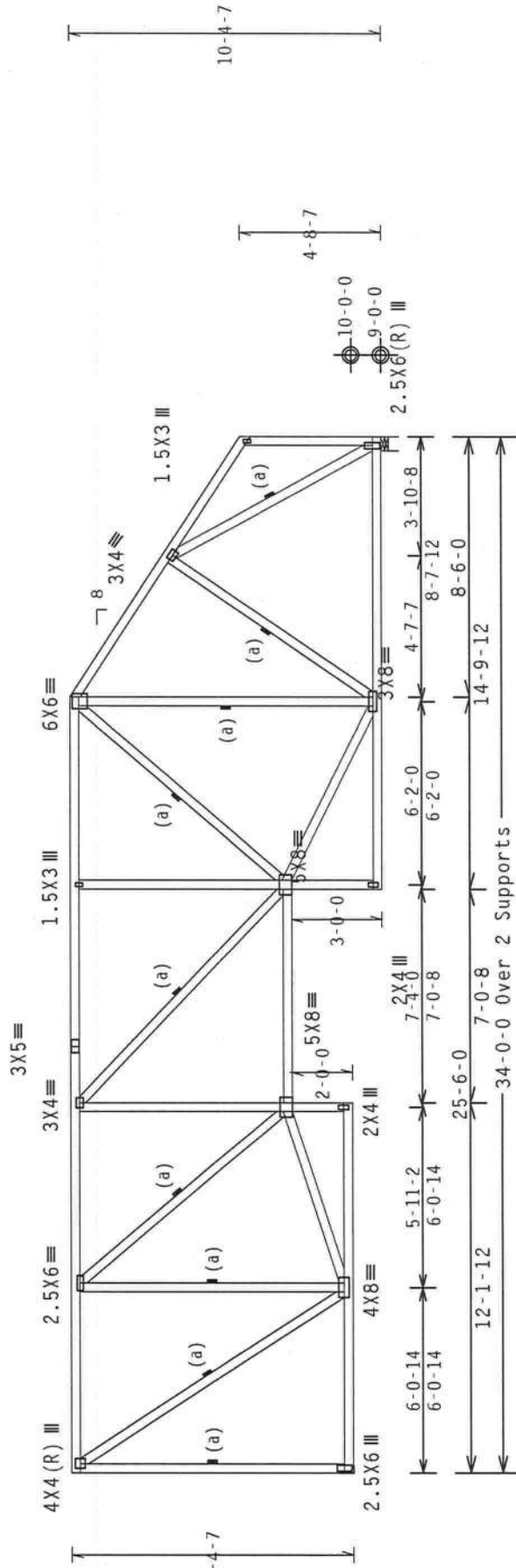
110 mph wind, 16.54 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge. CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)-0.18

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.

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

MWFRS loads based on trusses located at least 33.07 ft. from roof edge.



R-1643 U=131
RL-41/-89

PLT TYP. Wave	ALPINE </
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(11-209--Fill) in later 808 JORDAN -- , ** - CS)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

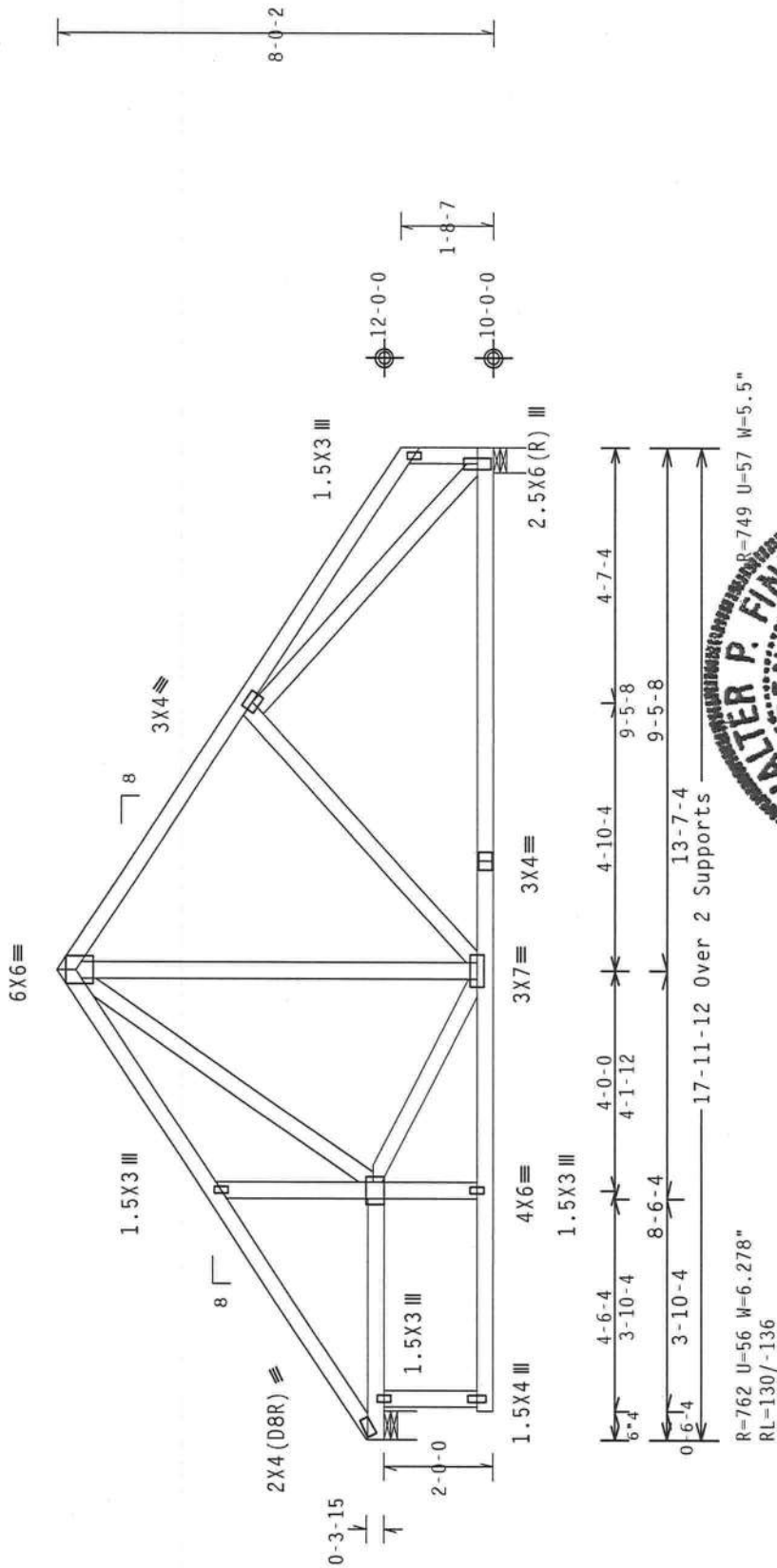
Deflection meets L/240 live and L/180 total load.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind IC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=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.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD FT/RT=10%(0%)/0(0))

R=762 U=56 W=6.278"
RL=130/-136

10.03. No. 0902839

FL/-/4/-/-/R/- Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R487-- 61421
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 1132072
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEQN-	245925
DUR. FAC.	1.25	JREF-	1UHF487_Z03
SPACING	24.0"		

WALTER P. FINN
LICENSE
11/28/2011
PROFESSIONAL ENGINEER
STATE OF FLORIDA

****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 latest edition of BCSI (Building Component Safety Information, by TPI and MICA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraining shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
IITW Building Components Group Inc. (IITWBCG) shall not be responsible for any deviation from the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply places and positions as shown above and on the joining of trusses. BCSI and IITWBCG shall not be responsible for any deviation from the design shown on this drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the building designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: IITW-BCG: www.iitwbcg.com; TPI: www.tpiinc.org; MICA: www.sbcindustry.com; ICC: www.iccsafe.org

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

(11-209--Fill in later BOB JORDAN -- , ** - CGE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP M-30
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense:

Left and right cantilevers are exposed to wind

Gable end supports 8" max rake overhang.

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

* MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS TO TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS. 4X4=

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCp(+/-)=0.18

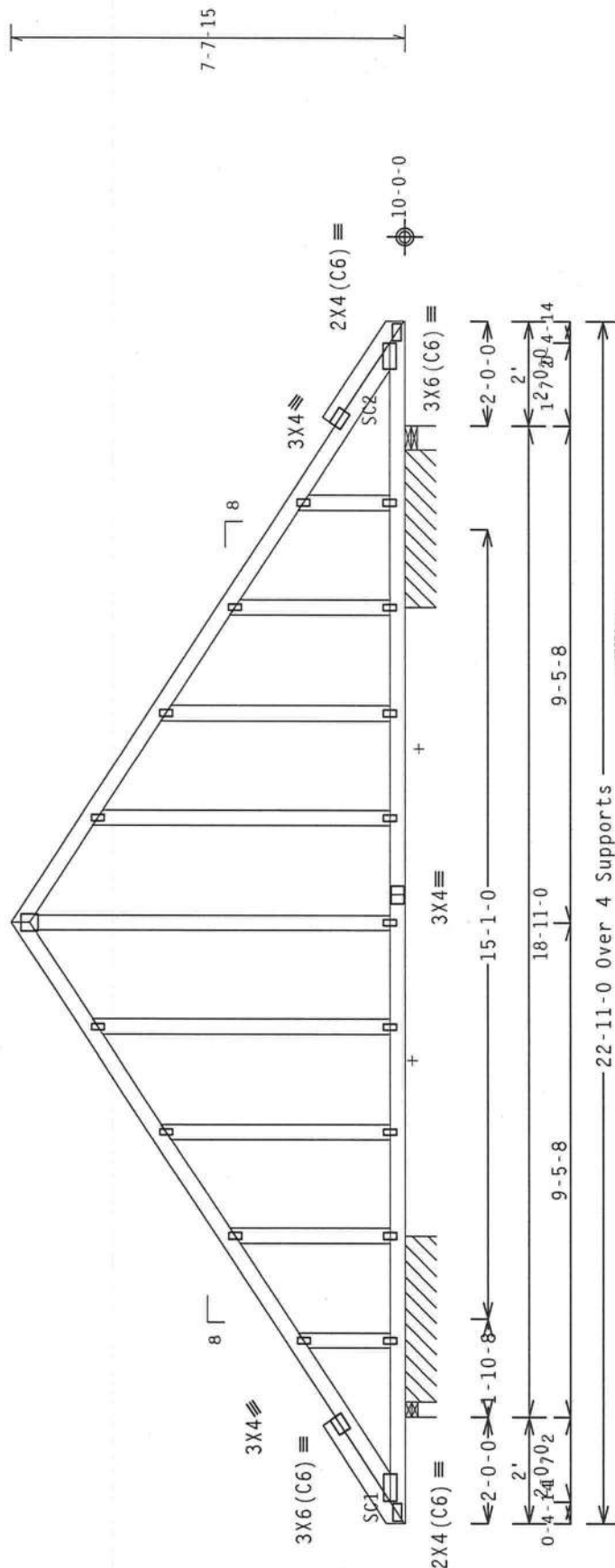
Wind loads and reactions based on MMFRS with additional C&C member design.

See DWGS A11015050109 & GBLLETIN0109 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.



R=1081 U=0 W=3.5"
R/R=39 PLF68W=39 PLF U=50 PLF W=3-2-0

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STC

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

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FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Installers shall follow the latest edition of BCSI (Building Component Safety Information, by TPI and MICA) practices prior to performing these functions. Installers shall provide temporary bracing for BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

IW Building Components Group Inc. (IWBG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or bracing. Refer to drawings 160A-2 for standard plate positions. A seal, 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 the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page: I1W-BG: www.iwbog.com; TPI: www.tpinet.org; MICA: www.sbcindusry.com; ICC: www.iccsafe.org

PLT TYP. Wave

10-03 04-0601 16

No. 22839

QT 1

Scale = .3125"/Ft.

TC LL	20.0 PSF	REF	R487--	61423
TC DL	10.0 PSF	DATE	11/28/11	
BC DL	10.0 PSF	DRW	HCUSR487	11332068
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	40.0 PSF	SEQN-	245979	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UHF487_Z03	

ALPINE

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

	Top	Bot	Dense
chord	2x4	2x4	SP #2
chord	2x4	2x4	SP #2
webs	2x4	2x4	SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Left and right cantilevers are exposed to wind

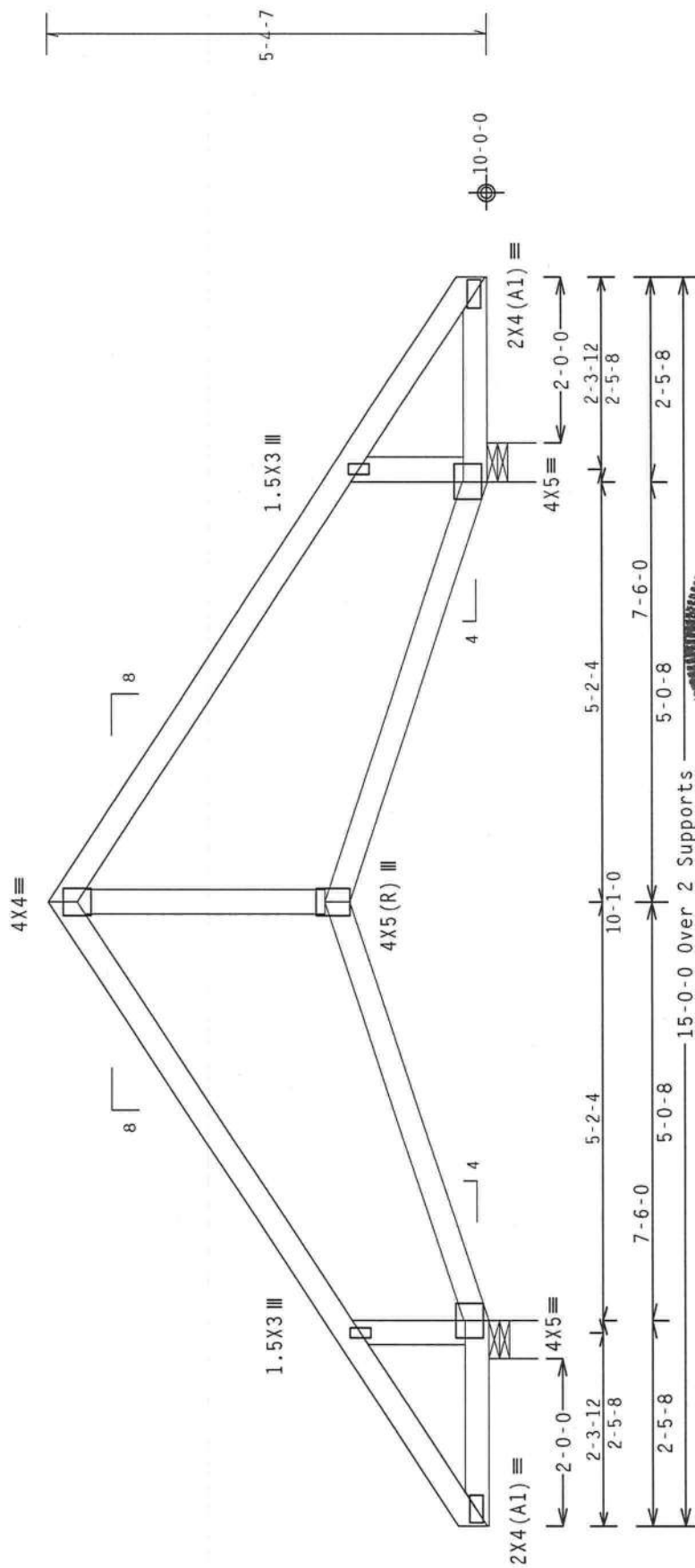
Calculated horizontal deflection is 0.12" due to live load and 0.14" due to dead load.

Deflection meets L/180 live and L/120 total load.

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

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

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



R=636 U=34 W=5.5"
RL=111/-111

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10% (0%) / 0(0)

PLT TYP. Wave

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

Scale = .5"/Ft.

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TC LL	20.0 PSF
-------	----------

REF R487-- 61425

Trusses require extreme care in fabricating, shipping, installing and bracing. Please follow the latest edition of BCSI (Building Component Safety Information, by IPI and WICA) recommended practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.

10 0 PSE

DATE 11/28/11

Follow the latest edition of BCSI Building Component Safety Information, by IPI and WCAI to determine the proper practices prior to performing these functions. Installers shall provide temporary bracing per BCSI recommendations for the installation of the top chord. 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 83, 87 or 810, as applicable.

	10	0	DCE
	10	0	DCE

OFFICE LOCATION: 1100
11/07/11

ITW Building Components Group Inc. (IIBCG) shall not be responsible for any deviation from the manufacturer's instructions for use of the product, or any failure to build the truss in accordance with ANSI/P1-1 or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joining Details, unless noted otherwise. Refer to drawings I600-2 for standard plate positions. A seal on the bottom flange of the truss is required. The seal is not to be applied to the bottom flange of the truss. 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/P1-1 Sec.2. For more information see: This job's general notes page; IIB-BCG: www.iibbcg.com; P1: nbsiip1.org; WCA: www.wcaindustrial.com.

BC LL 0.0 PSF

HC-ENG DF/DF

the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page; IIR-BCG: www.itubcg.com; TPI: www.tpiinst.org; WICA: www.sbcindustry.com; www.tresafe.org

SPACING 24.0"

JREF- 1UHF487_Z03

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

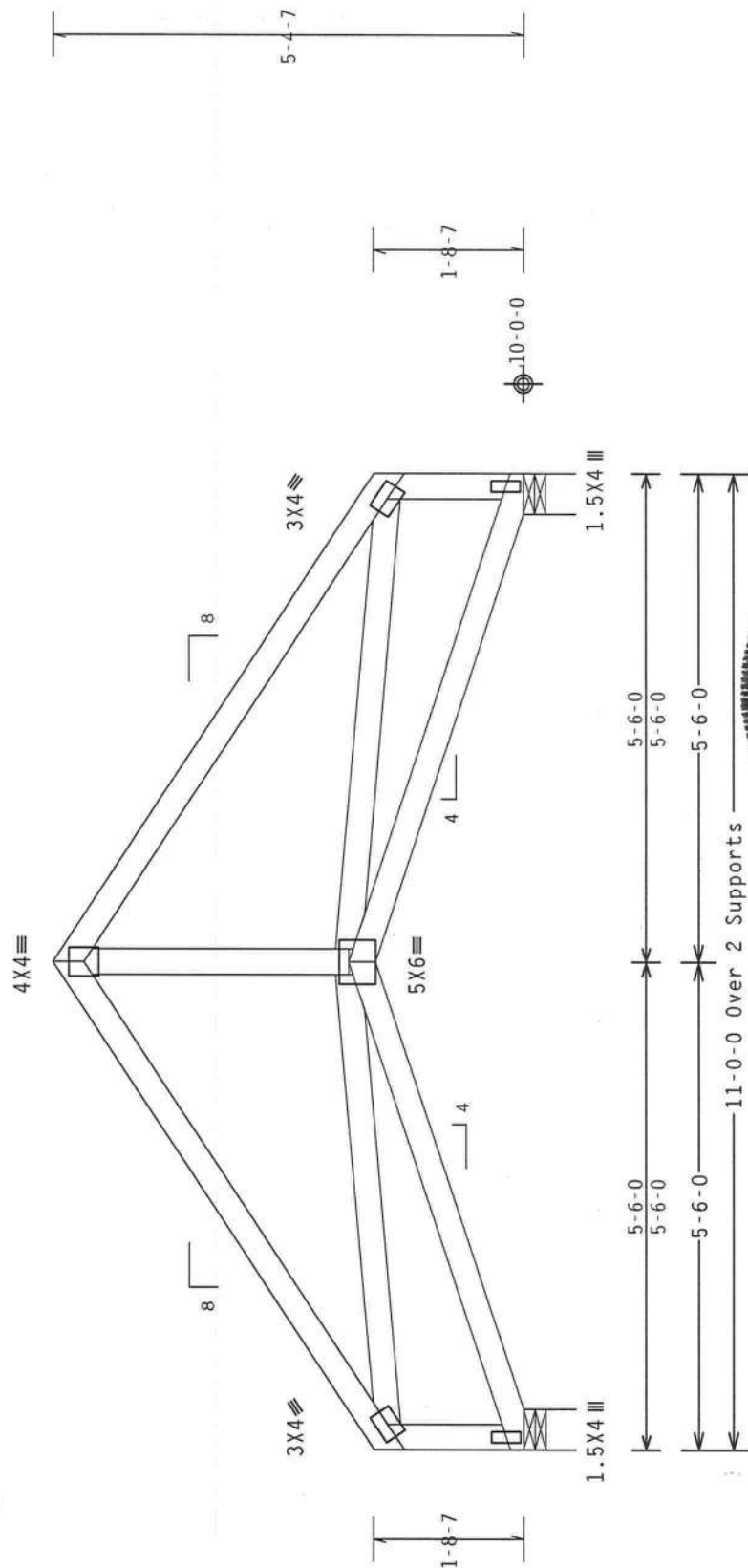
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

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

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



R=468 U=34 W=5.5"

RL=81/-81

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(Std)

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

Scale = .5"/Ft.

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

DTY-1

10.03.04.0601.16

(0) 0/

FT/RT=10%(0%

design critic.

PLT TYP. Wave

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

FRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.

Follow the latest edition of BCSI (Building Component Safety Information, by IPI and WICA) practices prior to performing these functions. Installers shall provide temporary bracing in

shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of chord shall have a properly attached structural sheathing and bottle chord. Locations shown for permanent lateral restraint of chord shall have a properly attached structural sheathing and bottle chord. Locations shown for permanent lateral restraint of chord shall have a properly attached structural sheathing and bottle chord.

shall have bracing installed per BCS sections B3, B7 or B10, as applicable.

any failure to build the truss in conformance with ANST/TEI 1, or for handling, shipping, installing, or erecting components, and for any other failure to follow the instructions for the erection of trusses. Apply plates to each face of truss and position as shown above and on the Job.

drawing or cover page listing this drawing, indicates acceptance of professional engineering details, unless noted otherwise. Refer to drawings 160A-7 for standard plate positions. A seal on

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: IIN-BCG: www.itubcg.com; TPI: www.tpinst.org; NTCA: www.sbcindustry.com; CC: www.icesafe.org

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ALPINE

TW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

100

(11-209--Fill in later BOB JORDAN -- , ** - E)

Top chord 2x4 SP #1 :T2, T5 2x8 SP 2400f-2.0E:
Bot chord 2x8 SP SS :B2, B3 2x12 SP SS:
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

Calculated horizontal deflection is 0.18" due to live load and 0.22" due to dead load.

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

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

Deflection meets L/240 live and L/180 total load.

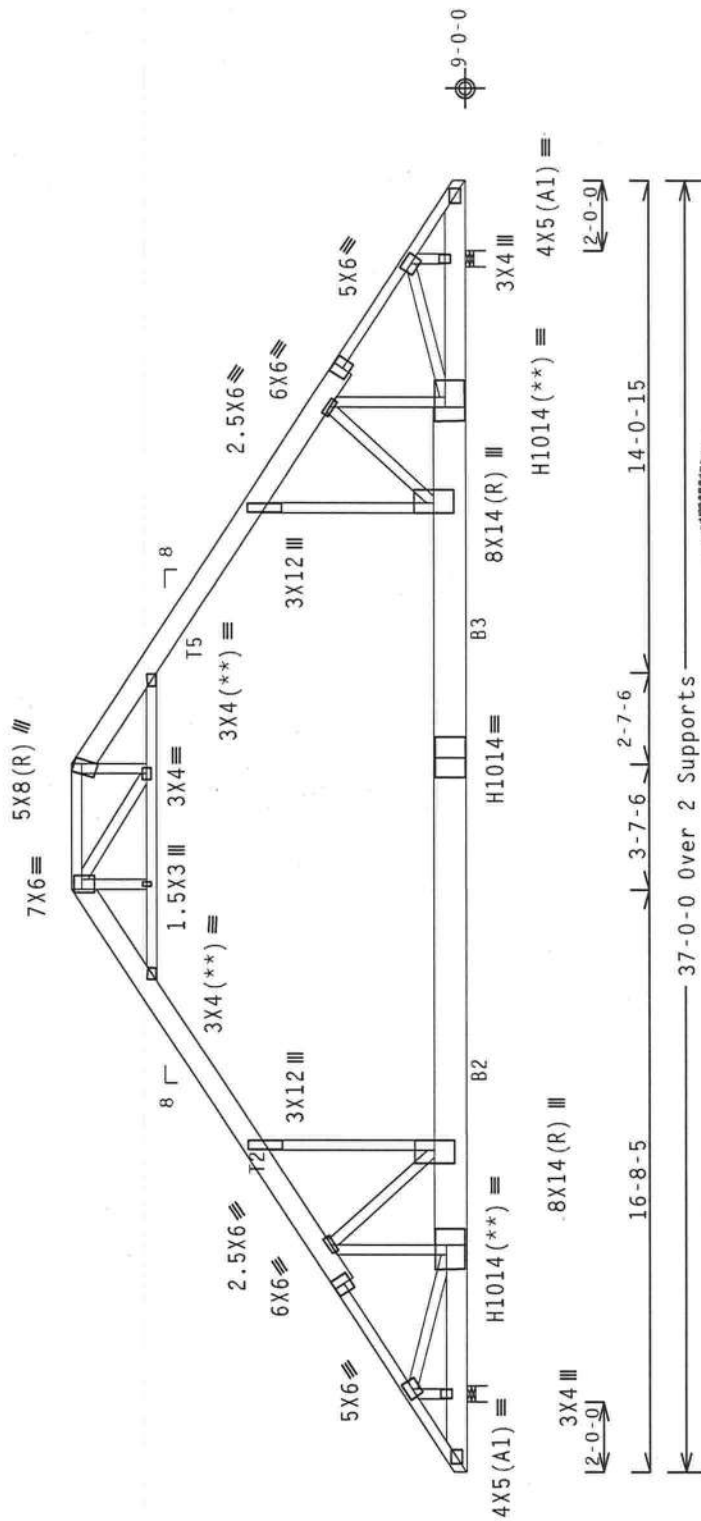
(**) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=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.

BC attic room floor Loading: LL = 40.00 psf; DL = 10.00 psf; from 9-6-0 to 27-6-0.



R=2772 U=112 W=5.5"
RL=259/-259

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2007Res/TPI-2002(STC
FT/RT=10%(0%)/0(0)

Q19 FL/-/4/-/-/R/-
Scale = .1875"/Ft.

TC LL	20.0	PSF	REF R487-- 61427
TC DL	10.0	PSF	DATE 11/28/11
BC DL	10.0	PSF	DRW HCUSR487 11332044
BC LL	0.0	PSF	HC-ENG JB/AP
TOT.LD.	40.0	PSF	SEQN- 249359
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UHF487_Z03



****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET
FOR THE PROPER INSTALLATION OF THESE TRUSSES.
FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING INSTALLERS.**

****IMPORTANT****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trussing shall be done by experienced trussing companies familiar with the design and specifications of the trusses. Trussing shall be done prior to performing these functions. Installers shall prepare temporary 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 properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have a properly attached rigid sections B3, B7 or B10, as applicable.

IIT Building Components Group Inc. (IIBCG) shall not be responsible for any deviation from the drawings or specifications of the trusses due to any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, in bracing of trusses. Apply plates to each face of truss and position as shown above and on details, unless noted otherwise. Refer to drawings I600-2 for standard plate positions. A drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility by the building designer per ANSI/TPI 1 Sec. 2. For more information see: general notes IBB-BG0; www.iitbcg.com; TPI: www.tpinst.org; MICA: www.sbciindustry.com; www.tccsafe.org

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpl (+/-)=0.18

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

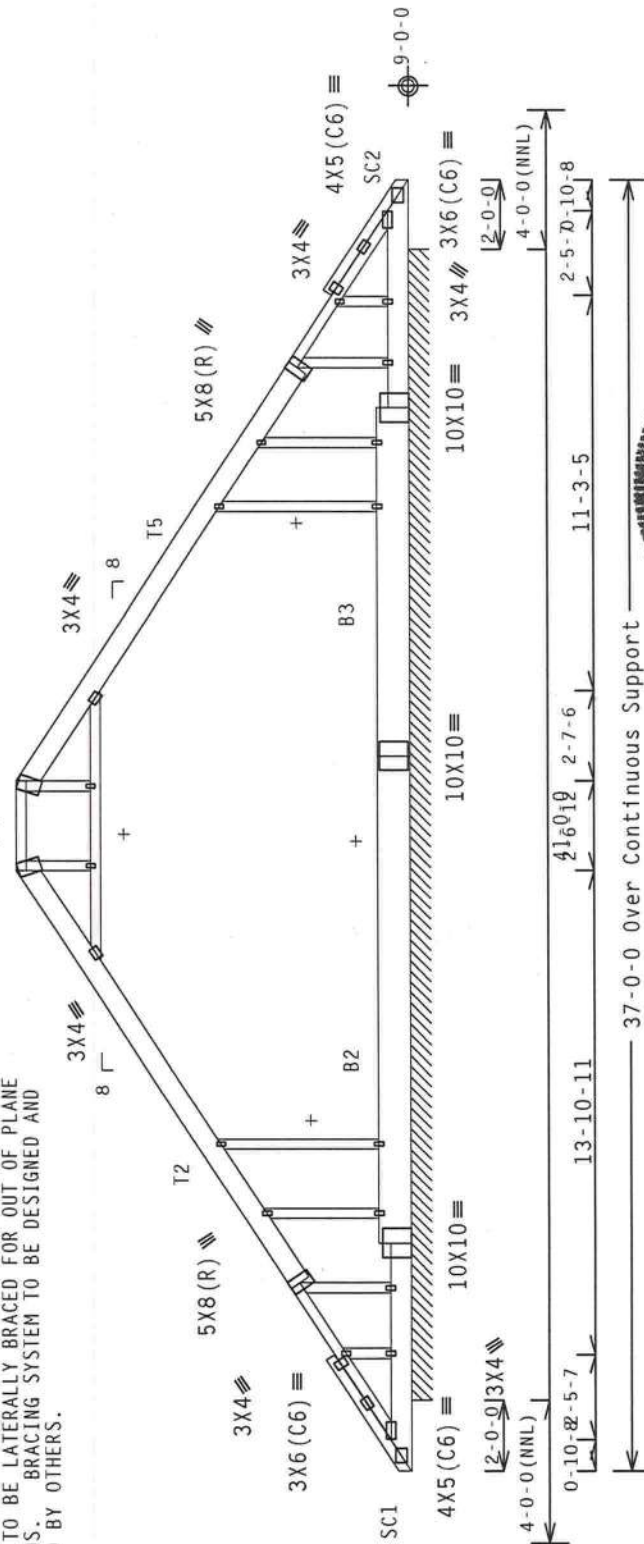
See DWGS A11015050109 & GBLLETIN0109 for more requirements.

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.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 9-6-0 to 27-6-0.

5X8(R) /// Gable end supports 8" max rake overhang.



R=168 PLF U=5 PLF W=33-0-0
RL=7/-7 PLF

Note: All Plates Are 1.5X3 Except As Shown.

PLT TYP. Wave

PLT TYP. Wave

Scale = .1875"/Ft.

FL1-141-1-1R/-

10:03 04-0601-16

10.0

=WARNING= READ AND FOLLOW ALL NOTES ON THIS SHEET!
 BEFORE THE DESIGN TEAM, 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 IPI and AISC, for detailed instructions. BCSI also provides a free literature package for IPI and AISC. Consultants noted others' past, short and long range projections for permanent lateral restraint. All have noted that the BCSI system is the only one that has been installed on all buildings. BCSI sections 83, 87 and 810, as applicable, are addressed in this design to all truss factors including installation.

The building Components Group Inc. (IHLBCO) shall not be responsible for any deviation from the design shown on drawings issued by IHLBCO. The user assumes full responsibility for the engineering and construction of trussing and other components. Apply plates to each face of truss and position as shown above and on the section details, unless noted otherwise. Refer to drawings 1608-7 for standard plate positions. A seal on 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/SPRI Sec.2. For more information see: This Job's general notes page; IHLBCO: www.abey.com; IPI: www.iapi.net.org; NGA: www.nga-inc.com.

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

Haines City, FL 33844
FL COA #0278

11/28/2011

* not a

For more information on the responsibility of the building designer, per ANSI/AP1 1 Sec.2, visit the general notes page: www.itwbcg.com TPI: www.tpinst.org WICA: www.wica.org

Haines City, FL 33844
FL COA #0278

(11-209--Fill in later BOB JORDAN -- , ** - F1)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W2, W6 2x4 SP #2 Dense:

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located
within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. 1w=1.00 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.

The TC of this truss shall be braced with attached spans at 24" OC in lieu
of structural sheathing.

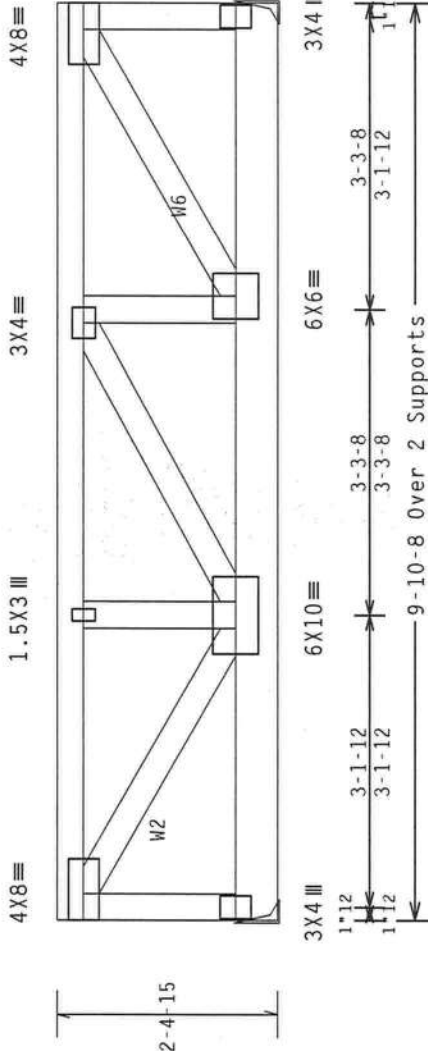
Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at 0.00 to 60 plf at 9.88
BC- From 10 plf at 0.00 to 10 plf at 9.88
BC- 896.85 lb Conc. Load at 1.94, 3.94, 5.94, 7.94

End verticals not exposed to wind pressure.

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

Truss must be installed as shown with top chord up.



R-2140 U-4

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

10 103. QNo 022839

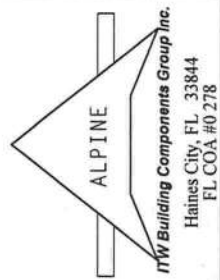
Scale = .5" / Ft.

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

TC LL	20.0 PSF	REF	R487-- 61430
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCSR487 11332025
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245477
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03



****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 latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be braced in accordance with the BCSI requirements. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint 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 any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 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 ICC: www.iccsafe.org



(11-209--Fill in later BOB JORDAN -- , ** - H9G)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B3, B4 2x4 SP #2 Dense:
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located
within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf. 1W=1.00 Gcpl(+/-)-0.18

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

Left cantilever is exposed to wind

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

Deflection meets L/240 live and L/180 total load.

Special loads

----- (Lumber
TC- From Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
64 plf at 0.00 to 64 plf at 11.00
TC- From 64 plf at 11.00 to 64 plf at 16.00
TC- From 64 plf at 16.00 to 64 plf at 25.00
BC- From 20 plf at 0.00 to 20 plf at 2.46
BC- From 21 plf at 2.46 to 21 plf at 11.13
BC- From 20 plf at 11.13 to 20 plf at 15.88
BC- From 21 plf at 15.88 to 21 plf at 25.00
BC- 2139.85 lb Conc. Load at 3.85

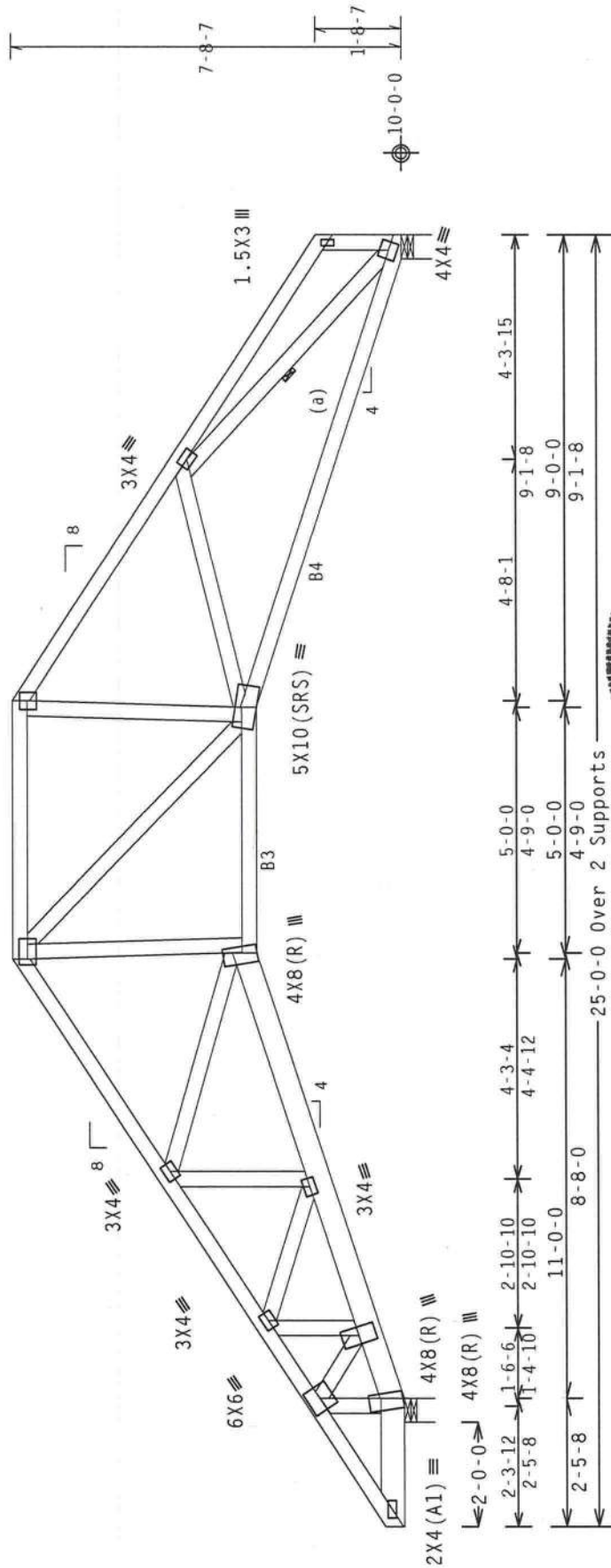
(a) Continuous lateral bracing equally spaced on member.

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

Deflection meets L/240 live and L/180 total load.

4X6=

4X4=



R=3182 U=123 W=5.5"

R=1078 U=96 W=5.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

Scale = .3125"/Ft.

 ALPINE nW 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 COMPARTMENTS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by IPI and WICA) practices prior to performing these functions. Installers shall provide temporary bracing and bracing details as shown in the drawings. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. nW Building Components Group Inc. (nWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, install- ing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal or drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page: 1W-BCSI: www.1wbcg.com ; TPI: www.tpiinst.org ; WICA: www.bcsiindustry.com ; ICC: www.iccsafe.org									
	No. 22839		STATE OF FLORIDA PROFESSIONAL ENGINEER		11/28/2011					
	TC LL	20.0 PSF	REF	R487--	61431					
	TC DL	10.0 PSF	DATE	11/28/11						
	BC DL	10.0 PSF	DRW	HCU8487	1132037					
	BC LL	0.0 PSF	HC-ENG	DF/DF						
	TOT.LD.	40.0 PSF	SEQN-	245492						
DUR.FAC.	1.25									
SPACING	24.0"	JREF-	1UHF487_Z03							

[illegible]

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl (+/-)=0.18

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

Left cantilever is exposed to wind

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load

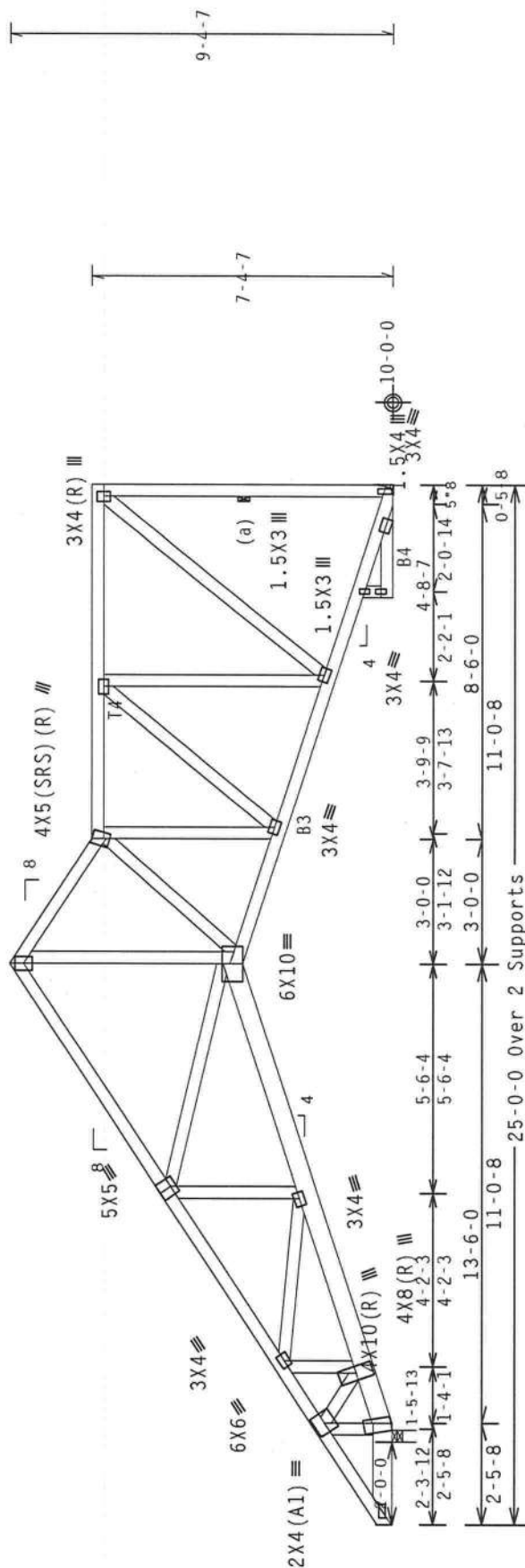
Special loads

	(Lumber	Dur.Fac.=1.25 /	Plate Dur.Fac.=1.25)
TC-From	64 pif at 0.00 to	64 pif at 13.50	
TC-From	64 pif at 13.50 to	64 pif at 16.50	
TC-From	64 pif at 16.50 to	64 pif at 25.00	
BC-From	20 pif at 0.00 to	20 pif at 2.46	
BC-From	21 pif at 2.46 to	21 pif at 13.50	
BC-From	21 pif at 13.50 to	21 pif at 22.32	
BC-From	20 pif at 22.32 to	20 pif at 25.00	
PLB-2140.12 lb Conc.	Load at (	3.85,10.5)	

Right end vertical not exposed to wind pressure.

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

Deflection_{Y2} meets L/240 live and L/180 total load.



R=3141 I=174 W=3.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

10:03. No. 2839 QTY:

Scale = .25"/Ft.

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

*** IMPORTANT ***

Instruct your extreme care in fabricating, handling, shipping, installing and bracing. Please follow the latest edition of BC91 (Building Component Safety Information) by IPI and NICA for safety information. The following instructions are intended as a guide only. If you have any questions or comments, please contact us at 800-678-2262.

The following instructions apply to all BC91 products unless otherwise noted. Otherwise, note the specific instructions for each product listed below. All products must be installed according to the instructions provided in the product literature. If you have a properly attached rigid ceiling, Locations B through D may be omitted. If you do not have a properly attached rigid ceiling, Locations B through D may be required. If you do not have bracing installed per BC91 sections B3, B7 and B10, as applicable.

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

Haines City, FL 33844
FL COA #0 278

11/28/2011

SPACING 24.0"

REF- 11HF487 703



(11-209--F111 in later BOB JORDAN -- , ** - G2)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left cantilever is exposed to wind

(a) Continuous lateral bracing equally spaced on member.

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

Deflection meets L/240 live and L/180 total load.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

4X4=

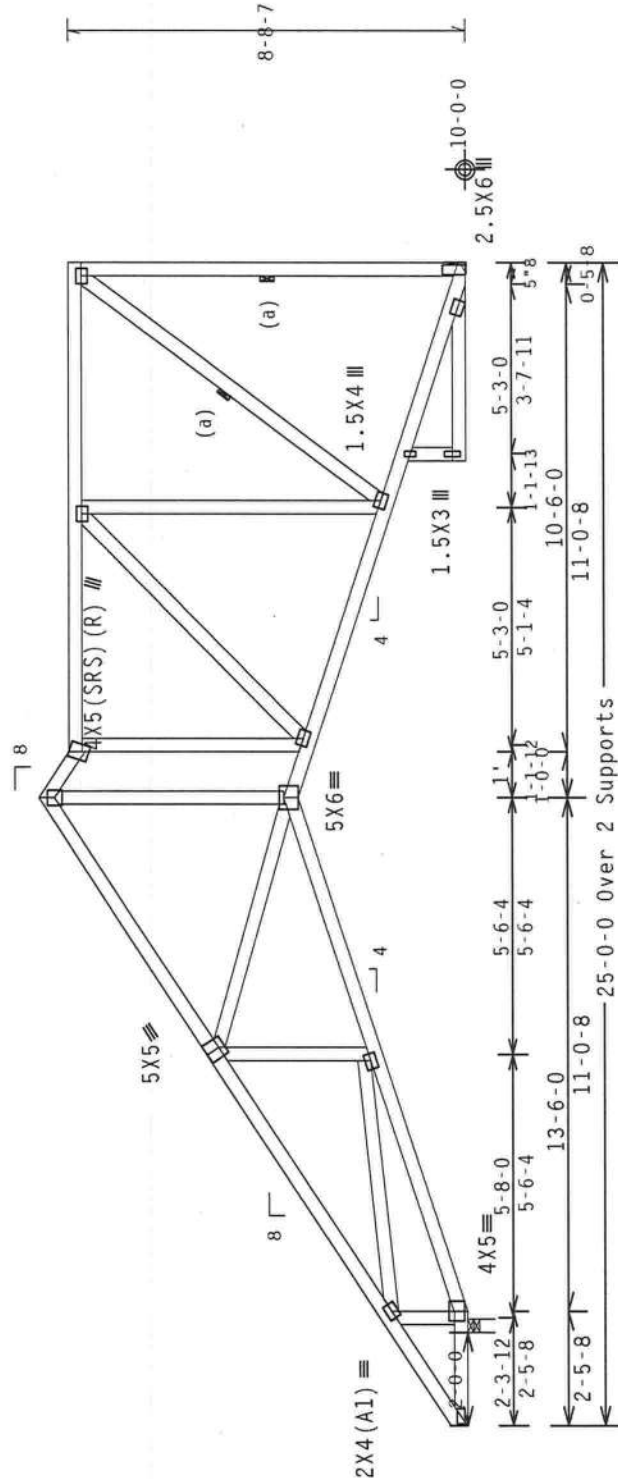
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpl(+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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.



R=1161 U=0 W=3.5"
RL=149/-79

Note: All Plates Are 3X4 Except As Shown.

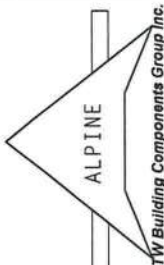
Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

10.03. No. 022839

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

Scale = .25"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI Building Components Safety Information, by TPI and NICA) and practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (114863) shall not be responsible for any deviation from the design shown on this drawing. A seal on the drawing is required. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, and bracing, follow the latest edition of BCSI Building Components Group Inc. (114863) shall not be responsible for any deviation from the design shown on this drawing. A seal on the drawing is required. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing is required. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. 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; NICA: www.sbcindustry.com; ICC: www.iccsafe.org				REF R487-- 61433
	DATE 11/28/11	TC LL 20.0 PSF	TC DL 10.0 PSF		
	DRW HCUSR487 11332090	BC DL 10.0 PSF	BC LL 0.0 PSF		
	HC-ENG DF/DF	TOT.LD. 40.0 PSF	DUR.FAC. 1.25		
	SEQN- 246821	SPACING 24.0"			
	JREF- 1UHF487_Z03				

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

Left 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.

(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.

MMFRS loads based on trusses located at least 30.41 ft. from roof edge $\frac{4 \times 5}{5} =$

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

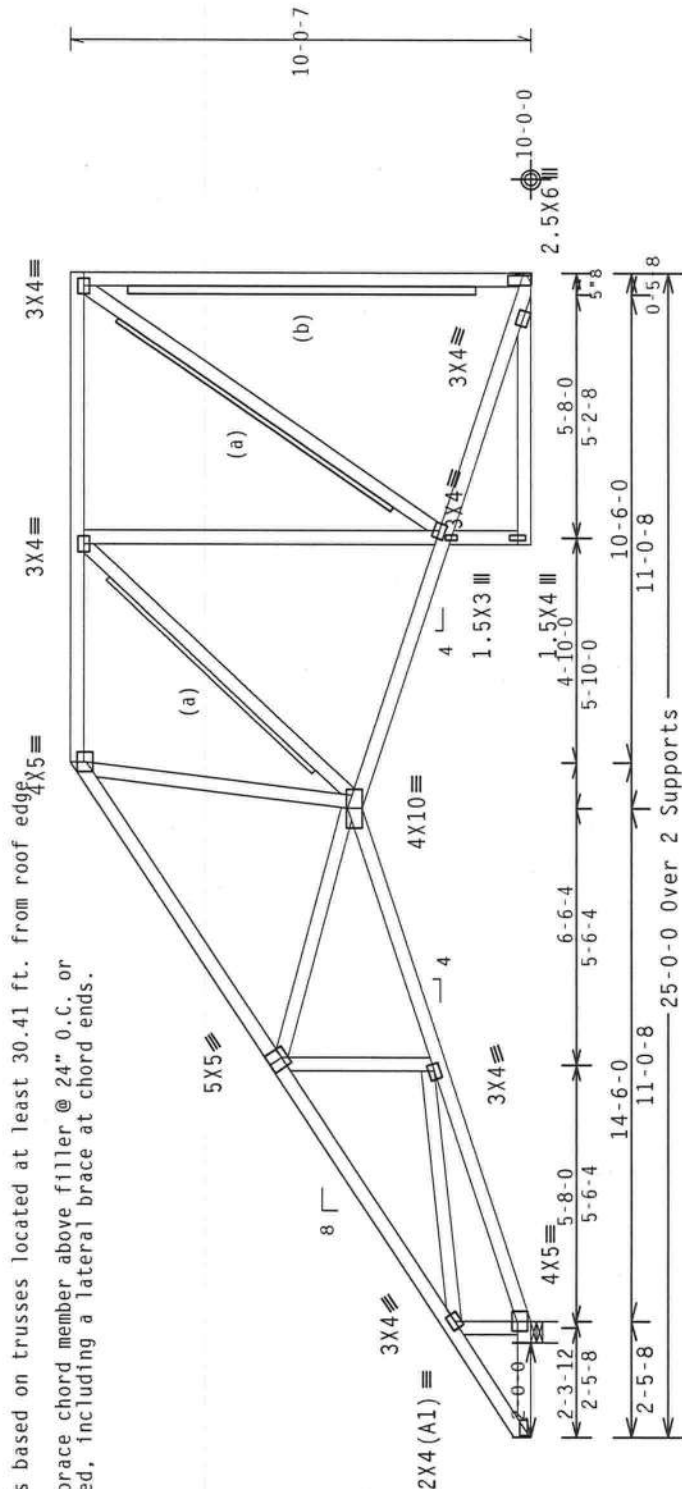
111110 mph wind, 15.20 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)0.18

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.



R=1176 U=0 W=5.5"
RL=159/-77

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

10:03 AM 632839

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. Related to this is the latest edition of BCSP (Building Component Safety Information, by IP1 and NICA) for steel trusses, which provides information on the proper practices prior to performing these functions. Installers shall provide temporary bracing per BCSP. 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 shall have bracing installed per BCSP sections 83, 87 and 810, as applicable.

ITW and Loring Components Group, Inc. (LHCG) shall not be responsible for any deviation from this design. The user must be responsible for confirming the design with ANSI/APA for handling, shipping, installing, and erecting 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 the underside of the truss or covering or cover plate fitting 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 and the installing designer. For more information see: This job's specification. LHCG: www.lhcg.com; ANSI/APA: www.apa.org; NCA: www.ncausa.com; ECI: www.eci-usa.com

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

nes City, FL 33844
FL COA #0278

JREF- 1UHF487_Z03

Top	chord	2x4	SP	#2	Dense
30t	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

111110 mph wind, 15.87 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

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

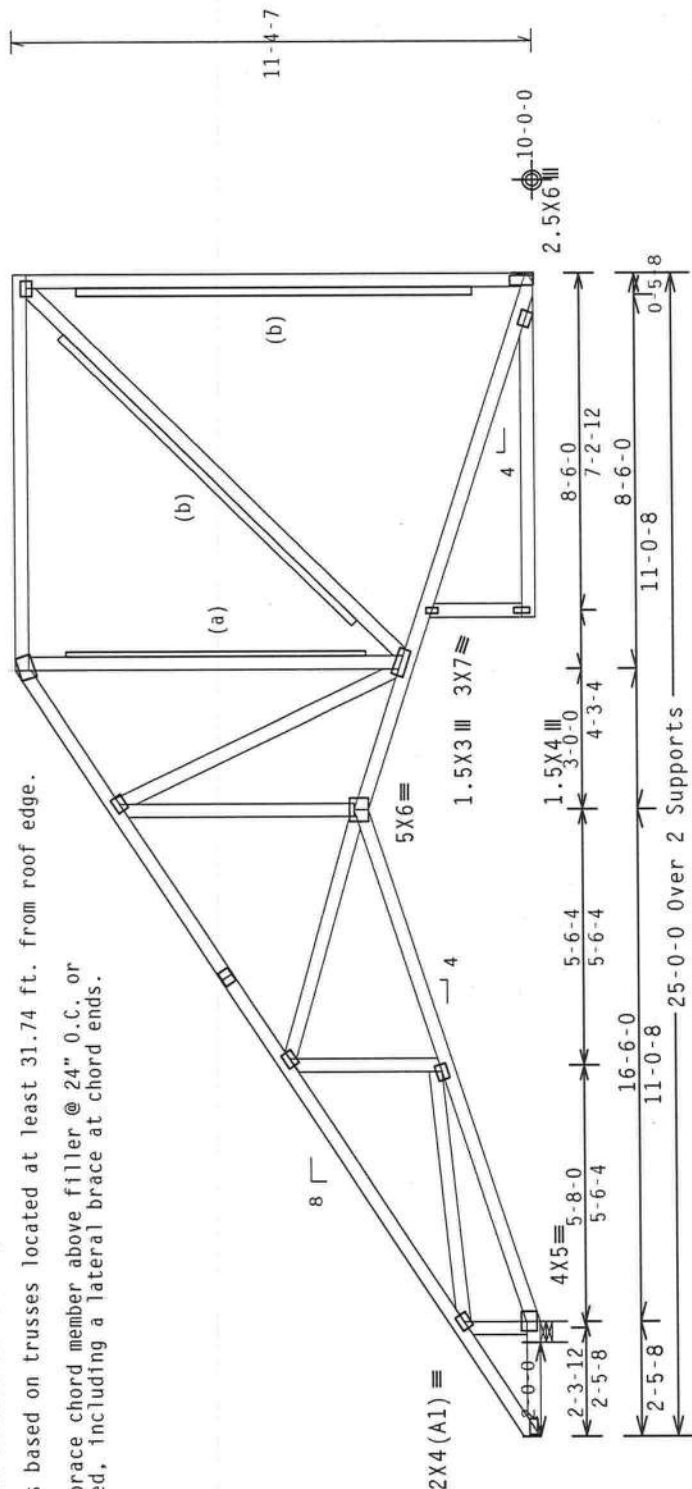
(a) 1x4 #3SRB SPF-S or better "1" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5" min.) nails @ 6" OC.

(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.

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

MEMBERS loads based on trusses located at least 31.74 ft. from roof edge.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.



R=1177 U=0 W=5.5"
RL=184 / -90

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PIT TYP. Wave

10:03. Monday

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

Scale = .25"/Ft.

****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 latest edition of BCSP (Building Component Safety Information, by IPT and NICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing and blocking for all trusses noted otherwise. Top chord bracing shall be installed for permanent lateral restraint. All trusses shall have bracing installed per BCSP sections B33, B7 or B40, as applicable.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

11/28/2011

SPACING 24.0"

1

JREF-

- 11 -

JHF487_Z03

(11-209--Fill in later BOB JORDAN -- , ** - 65)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left cantilever is exposed to wind

(a) 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.

(b) 2x6 #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.

MMFRS loads based on trusses located at least 31.74 ft. from roof edge.

Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

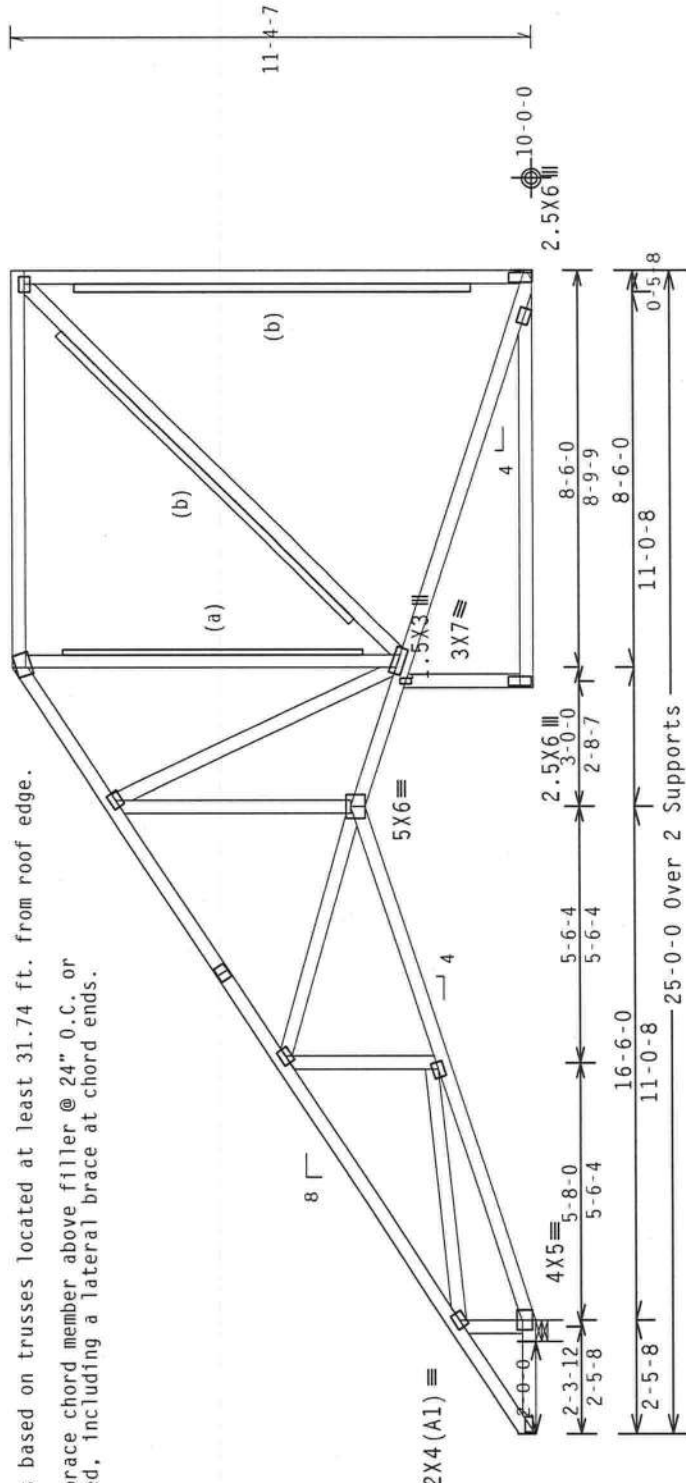
110 mph wind, 15.87 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCp(+/-)=0.18

Wind loads and reactions based on MMFRS 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.

4X6 Deflection meets L/240 live and L/180 total load.



R=1175 U=0 W=5.5"
RL=187/-93

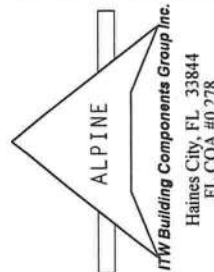
Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)
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. Trusses shall be erected on a level surface and shall be braced in accordance with the following practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bottles shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the 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 details, unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on drawing or cover page listing this drawing. The seal shall be placed on the drawing or cover page. 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; NICA: www.nicaindstry.com; ICC: www.iccsafe.org



1003-04-0501336

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

Scale = .25"/Ft.

TC LL	20.0 PSF	REF	R487--	61436
TC DL	10.0 PSF	DATE	11/28/11	
BC DL	10.0 PSF	DRW	HCUSR487	11332088
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	40.0 PSF	SEQN-	245611	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UHF487_Z03	

11/28/2011

	Top chord	2x4	SP #2	Dense
Bot chord	2x4	SP #2	Dense	:B3 2x6 SP #2:
webs	2x4	SP #3	:W13 2x4 SP #2	Dense:

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 1 Row @ 4.50" o.c.
 Webs : 1 Row @ 4" o.c.

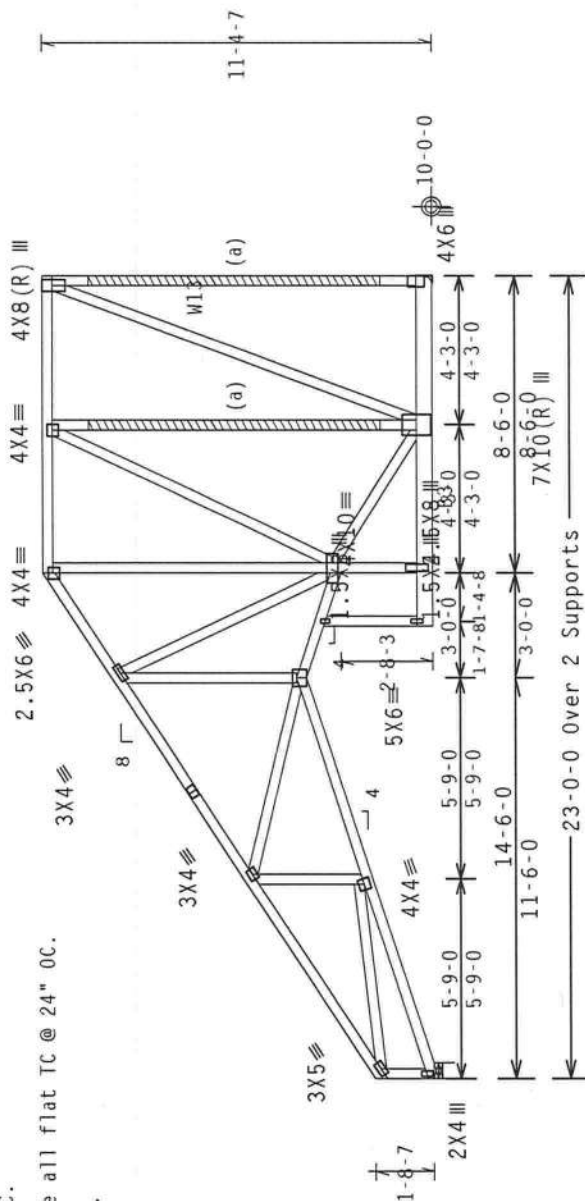
Species	Number	Load	Duration	Fac.
TC-From	64	plf at 0.00 to	64	plf at 14.50
TC-From	32	plf at 14.50 to	32	plf at 23.00
BC-From	21	plf at 0.00 to	21	plf at 11.50
BC-From	21	plf at 11.50 to	21	plf at 14.50
BC-From	10	plf at 14.50 to	10	plf at 23.00
BC-1428.63	lb	Conc. Load at	14.40	
BC-1642.93	lb	Conc. Load at	16.40, 18.40, 20.40, 22.40	

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

(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.

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

Deflection meets L/240 live and L/180 total load.



R-2475 U=184 W=5.5"

R-7116 U-512

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%) /0(0)CZ007/RES/ IPT-2002
T/RT=10%(0%)/0(0)

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

Scale = .1875"/Ft.

TC LL	20.0	PSF	REF R487-- 61437
TC DL	10.0	PSF	DATE 11/28/11
BC DL	10.0	PSF	DRW HCUSR487 11332007
BC LL	0.0	PSF	HC-ENG DF/DF
TOT.LD.	40.0	PSF	SEQN- 245759
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UHF487_Z03



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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The contractor is responsible for obtaining complete information from the manufacturer of the latest edition of the Building Components Group (BCG) Manual, and the applicable (TIC) or (TICB) drawings. The manufacturer's instructions shall govern temporary bracing practices. If the manufacturer's instructions are not available, the contractor shall consult with the manufacturer. If the manufacturer's instructions are not available, the contractor shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraints shall have bracing installed per BCG sections B3, B7 or B10, as applicable.

The Building Components Group Inc. (TICBCE) shall not be responsible for any deviation from the manufacturer's instructions for the design of the truss in accordance with ANSI/PPI 1, or for handling, shipping, installing or fabricating of trusses. Apply plates to each face of truss and position as shown above and on the details. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A section of the drawing showing the truss and its connections to the building frame shall be included in the responsibility solely for the design shown. The suitability and use of this design for any structure shall be the responsibility of the Building Designer per ANSI/PPI 1 Sec.2. For more information see: General notes page: 11-B60; 11-T1000; 11-T1001; 11-T1002; 11-T1003; 11-T1004; 11-T1005; 11-T1006; 11-T1007; 11-T1008; 11-T1009; 11-T1010; 11-T1011; 11-T1012; 11-T1013; 11-T1014; 11-T1015; 11-T1016; 11-T1017; 11-T1018; 11-T1019; 11-T1020; 11-T1021; 11-T1022; 11-T1023; 11-T1024; 11-T1025; 11-T1026; 11-T1027; 11-T1028; 11-T1029; 11-T1030; 11-T1031; 11-T1032; 11-T1033; 11-T1034; 11-T1035; 11-T1036; 11-T1037; 11-T1038; 11-T1039; 11-T1040; 11-T1041; 11-T1042; 11-T1043; 11-T1044; 11-T1045; 11-T1046; 11-T1047; 11-T1048; 11-T1049; 11-T1050; 11-T1051; 11-T1052; 11-T1053; 11-T1054; 11-T1055; 11-T1056; 11-T1057; 11-T1058; 11-T1059; 11-T1060; 11-T1061; 11-T1062; 11-T1063; 11-T1064; 11-T1065; 11-T1066; 11-T1067; 11-T1068; 11-T1069; 11-T1070; 11-T1071; 11-T1072; 11-T1073; 11-T1074; 11-T1075; 11-T1076; 11-T1077; 11-T1078; 11-T1079; 11-T1080; 11-T1081; 11-T1082; 11-T1083; 11-T1084; 11-T1085; 11-T1086; 11-T1087; 11-T1088; 11-T1089; 11-T1090; 11-T1091; 11-T1092; 11-T1093; 11-T1094; 11-T1095; 11-T1096; 11-T1097; 11-T1098; 11-T1099; 11-T1100; 11-T1101; 11-T1102; 11-T1103; 11-T1104; 11-T1105; 11-T1106; 11-T1107; 11-T1108; 11-T1109; 11-T1110; 11-T1111; 11-T1112; 11-T1113; 11-T1114; 11-T1115; 11-T1116; 11-T1117; 11-T1118; 11-T1119; 11-T1120; 11-T1121; 11-T1122; 11-T1123; 11-T1124; 11-T1125; 11-T1126; 11-T1127; 11-T1128; 11-T1129; 11-T1130; 11-T1131; 11-T1132; 11-T1133; 11-T1134; 11-T1135; 11-T1136; 11-T1137; 11-T1138; 11-T1139; 11-T1140; 11-T1141; 11-T1142; 11-T1143; 11-T1144; 11-T1145; 11-T1146; 11-T1147; 11-T1148; 11-T1149; 11-T1150; 11-T1151; 11-T1152; 11-T1153; 11-T1154; 11-T1155; 11-T1156; 11-T1157; 11-T1158; 11-T1159; 11-T1160; 11-T1161; 11-T1162; 11-T1163; 11-T1164; 11-T1165; 11-T1166; 11-T1167; 11-T1168; 11-T1169; 11-T1170; 11-T1171; 11-T1172; 11-T1173; 11-T1174; 11-T1175; 11-T1176; 11-T1177; 11-T1178; 11-T1179; 11-T1180; 11-T1181; 11-T1182; 11-T1183; 11-T1184; 11-T1185; 11-T1186; 11-T1187; 11-T1188; 11-T1189; 11-T1190; 11-T1191; 11-T1192; 11-T1193; 11-T1194; 11-T1195; 11-T1196; 11-T1197; 11-T1198; 11-T1199; 11-T1200; 11-T1201; 11-T1202; 11-T1203; 11-T1204; 11-T1205; 11-T1206; 11-T1207; 11-T1208; 11-T1209; 11-T1210; 11-T1211; 11-T1212; 11-T1213; 11-T1214; 11-T1215; 11-T1216; 11-T1217; 11-T1218; 11-T1219; 11-T1220; 11-T1221; 11-T1222; 11-T1223; 11-T1224; 11-T1225; 11-T1226; 11-T1227; 11-T1228; 11-T1229; 11-T1230; 11-T1231; 11-T1232; 11-T1233; 11-T1234; 11-T1235; 11-T1236; 11-T1237; 11-T1238; 11-T1239; 11-T1240; 11-T1241; 11-T1242; 11-T1243; 11-T1244; 11-T1245; 11-T1246; 11-T1247; 11-T1248; 11-T1249; 11-T1250; 11-T1251; 11-T1252; 11-T1253; 11-T1254; 11-T1255; 11-T1256; 11-T1257; 11-T1258; 11-T1259; 11-T1260; 11-T1261; 11-T1262; 11-T1263; 11-T1264; 11-T1265; 11-T1266; 11-T1267; 11-T1268; 11-T1269; 11-T1270; 11-T1271; 11-T1272; 11-T1273; 11-T1274; 11-T1275; 11-T1276; 11-T1277; 11-T1278; 11-T1279; 11-T1280; 11-T1281; 11-T1282; 11-T1283; 11-T1284; 11-T1285; 11-T1286; 11-T1287; 11-T1288; 11-T1289; 11-T1290; 11-T1291; 11-T1292; 11-T1293; 11-T1294; 11-T1295; 11-T1296; 11-T1297; 11-T1298; 11-T1299; 11-T1300; 11-T1301; 11-T1302; 11-T1303; 11-T1304; 11-T1305; 11-T1306; 11-T1307; 11-T1308; 11-T1309; 11-T1310; 11-T1311; 11-T1312; 11-T1313; 11-T1314; 11-T1315; 11-T1316; 11-T1317; 11-T1318; 11-T1319; 11-T1320; 11-T1321; 11-T1322; 11-T1323; 11-T1324; 11-T1325; 11-T1326; 11-T1327; 11-T1328; 11-T1329; 11-T1330; 11-T1331; 11-T1332; 11-T1333; 11-T1334; 11-T1335; 11-T1336; 11-T1337; 11-T1338; 11-T1339; 11-T1340; 11-T1341; 11-T1342; 11-T1343; 11-T1344; 11-T1345; 11-T1346; 11-T1347; 11-T1348; 11-T1349; 11-T1350; 11-T1351; 11-T1352; 11-T1353; 11-T1354; 11-T1355; 11-T1356; 11-T1357; 11-T1358; 11-T1359; 11-T1360; 11-T1361; 11-T1362; 11-T1363; 11-T1364; 11-T1365; 11-T1366; 11-T1367; 11-T1368; 11-T1369; 11-T1370; 11-T1371; 11-T1372; 11-T1373; 11-T1374; 11-T1375; 11-T1376; 11-T1377; 11-T1378; 11-T1379; 11-T1380; 11-T1381; 11-T1382; 11-T1383; 11-T1384; 11-T1385; 11-T1386; 11-T1387; 11-T1388; 11-T1389; 11-T1390; 11-T1391; 11-T1392; 11-T1393; 11-T1394; 11-T1395; 11-T1396; 11-T1397; 11-T1398; 11-T1399; 11-T1400; 11-T1401; 11-T1402; 11-T1403; 11-T1404; 11-T1405; 11-T1406; 11-T1407; 11-T1408; 11-T1409; 11-T1410; 11-T1411; 11-T1412; 11-T1413; 11-T1414; 11-T1415; 11-T141

ALPINE

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

(11-209--Fill in later BOB JORDAN -- , ** - H7G)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B3 2x4 SP M-30:
Webs 2x4 SP #3 :W2, W8 2x4 SP #2 Dense:

Left and right cantilevers are exposed to wind

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

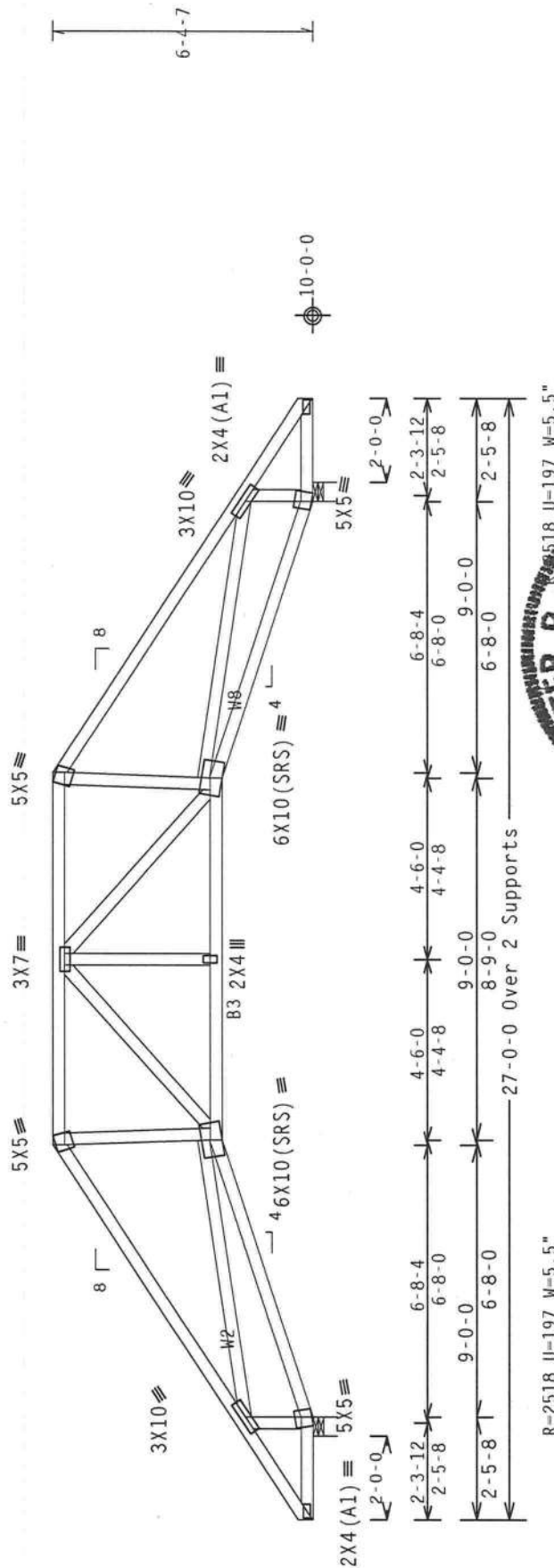
Left side jacks have 9'-0" setback with 2'-0" cant and 0'-0" overhang. End
Jacks have 9'-0" setback with 0'-0" cant and 0'-0" overhang. Right side
jacks have 9'-0" setback with 2'-0" cant and 0'-0" overhang.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0
psf. lw=1.00 GCPI(+/-)=0.18

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

#1 hip supports 9'-0" jacks W/2 panel TC and no end vert.

Deflection meets L/240 live and L/180 total load.



R-2518 U-197 W=5.5"

R-2518 U-197 W=5.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STE

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

10.03 04.0601 16

QT 1

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

Scale =.25"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) practices prior to performing these functions. Installers shall provide temporary bracing for BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral resistance 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 any failure to build the truss in conformance with ANSI/TPI 1, for handling, shipping, installation, or erection. Refer to drawings 180A-2 for standard plate positions. A seal, 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 general notes page: ITW-BCG: www.itwbcg.com ; TPI: www.tpiinc.org ; NICA: www.nicaindustry.com ; ICC: www.iccsafe.org		No. 22839			
			REF R487--	61438	TC LL	20.0 PSF
			DATE	11/28/11	TC DL	10.0 PSF
			DRW HCUSR487	11332023	BC DL	10.0 PSF
			HC-ENG DF/DF		BC LL	0.0 PSF
		SEQN-	246879	TOT.LD.	40.0 PSF	
		DUR.FAC.	1.25			
		SPACING	24.0"			
		JREF-	1UHF487_Z03			

(11-209--Fill in later BOB JORDAN -- , ** - HS116)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left 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.

MWFRS loads based on trusses located at least 15.37 ft. from roof edge.

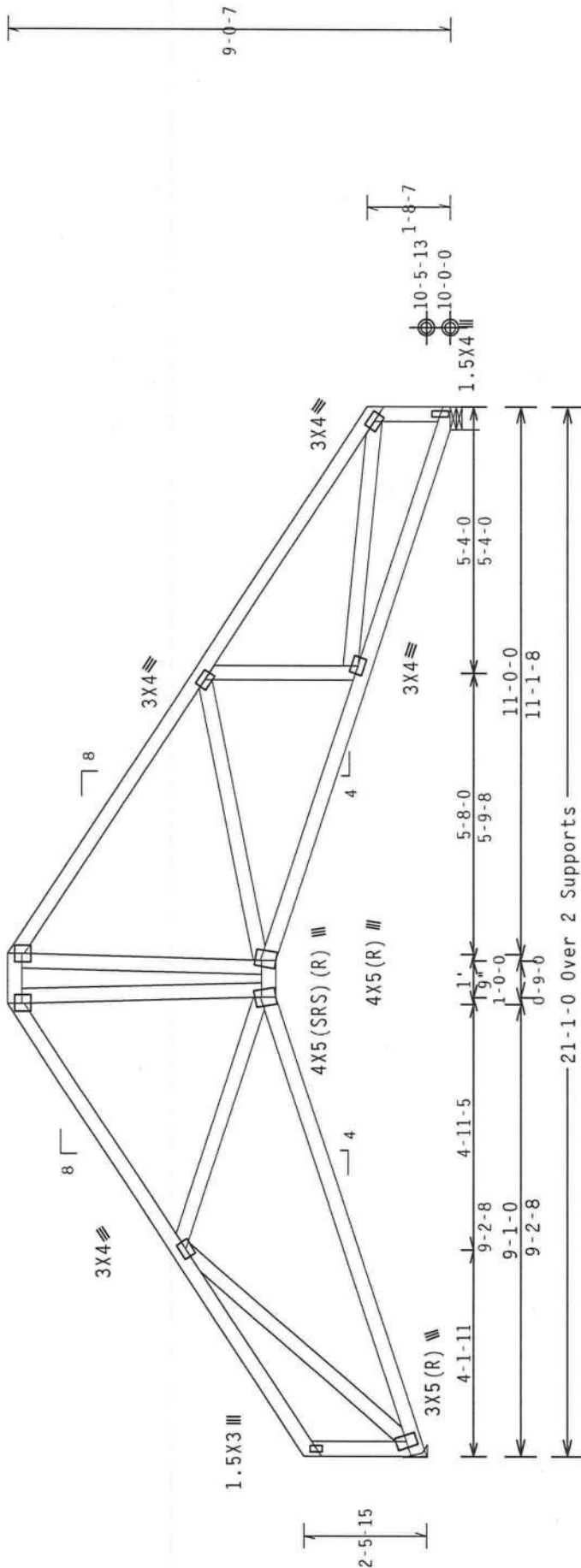
110 mph wind, 15.37 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. lw=1.00 GCpl(+/-)=0.18

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

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

Shim all supports to solid bearing.

4X4=



R-897 U=0
RL=147/-158

R-897 U=0 W=5.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

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

****IMPORTANT**** FURNISH THIS DESIGN TO ALL COMPACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing.
Follow the latest edition of BCSP (Building Component Safety Information, by TPI and WICA)
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 BCSP sections B5, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from
any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing
or bracing the truss. ITWBCG shall not be responsible for any deviation from the design shown
details, unless noted otherwise. Refer to drawings 1604-2 for standard plate positions. A seal
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
the responsibility of the Building Designer per ANSI/TPI 1 sec.2. For more information see:
general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WICA: www.sbcindustry.com;
ICC: www.iccsafe.org

ALPINE

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



Scale = .3125"/Ft.	REF R487-- 61439
TC LL 20.0 PSF	DATE 11/28/11
TC DL 10.0 PSF	DRW HCUSR487 11332084
BC DL 10.0 PSF	HC-ENG DF/DF
BC LL 0.0 PSF	SEQN- 245441
TOT.LD. 40.0 PSF	DUR.FAC. 1.25
SPACING 24.0"	JREF- 1UHF487_Z03

(11-209--F111 in later BOB JORDAN -- , ** - GS1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

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

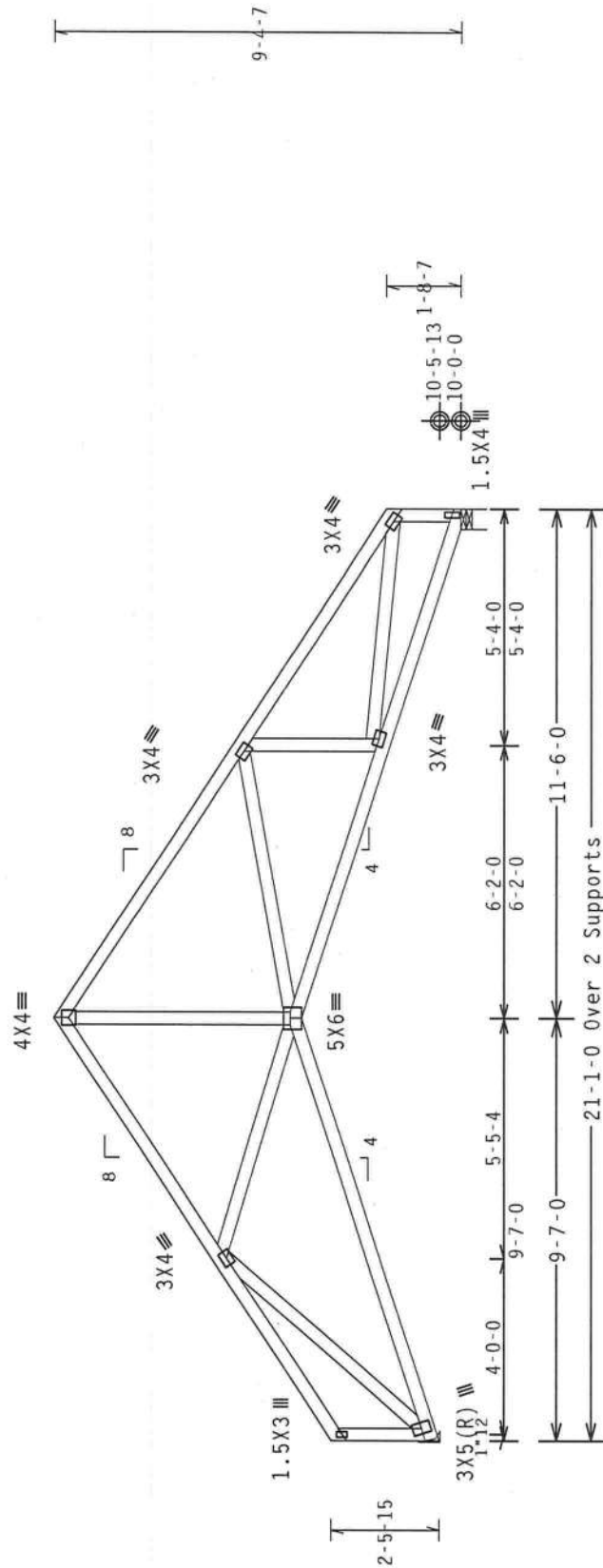
Shim all supports to solid bearing.

110 mph wind, 15.54 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $GCP1(+/-)-0.18$

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

Deflection meets L/240 live and L/180 total load.

MMFRS loads based on trusses located at least 15.54 ft. from roof edge.



R=897 U=0
RL=155/-166

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD FT/RT=10%(0%)/0(0))

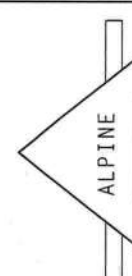
Scale = .25" / Ft.

10/03/2011

10/03/2011

10/03/2011

10/03/2011

 ALPINE iTW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSP (Building Component Safety Information, by TPI and MICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSP. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections 85, 87 or 810, 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, installing, bracing, or any other use of the truss. Refer to drawings 180A-2 for standard plate positions. A steel on the drawing or cover page listing this design. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This Job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; MICA: www.spcindustry.com; ICC: www.iccsafe.org		FL/-/4/-/R/-	20.0 PSF	REF R487-- 61440
	DATE	11/28/11	TC LL	10.0 PSF	DATE
	DRW	HCUSR487 11332013	TC DL	10.0 PSF	DRW
	HC-ENG	DF/DF	BC DL	10.0 PSF	HC-ENG
	SEQN-	245449	BC LL	0.0 PSF	SEQN-
11/28/2011	TOT.LD.	40.0 PSF	DUR.FAC.	1.25	JREF- 1UHF487_Z03
	SPACING	24.0"			

	Top	chord	2x4	SP	Dense
	Bot	chord	2x4	SP	Dense
		webs	2x4	SP	Dense

110 mph wind, 16.18 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpl (+/-)=0.18

End verticals not exposed to wind pressure.

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

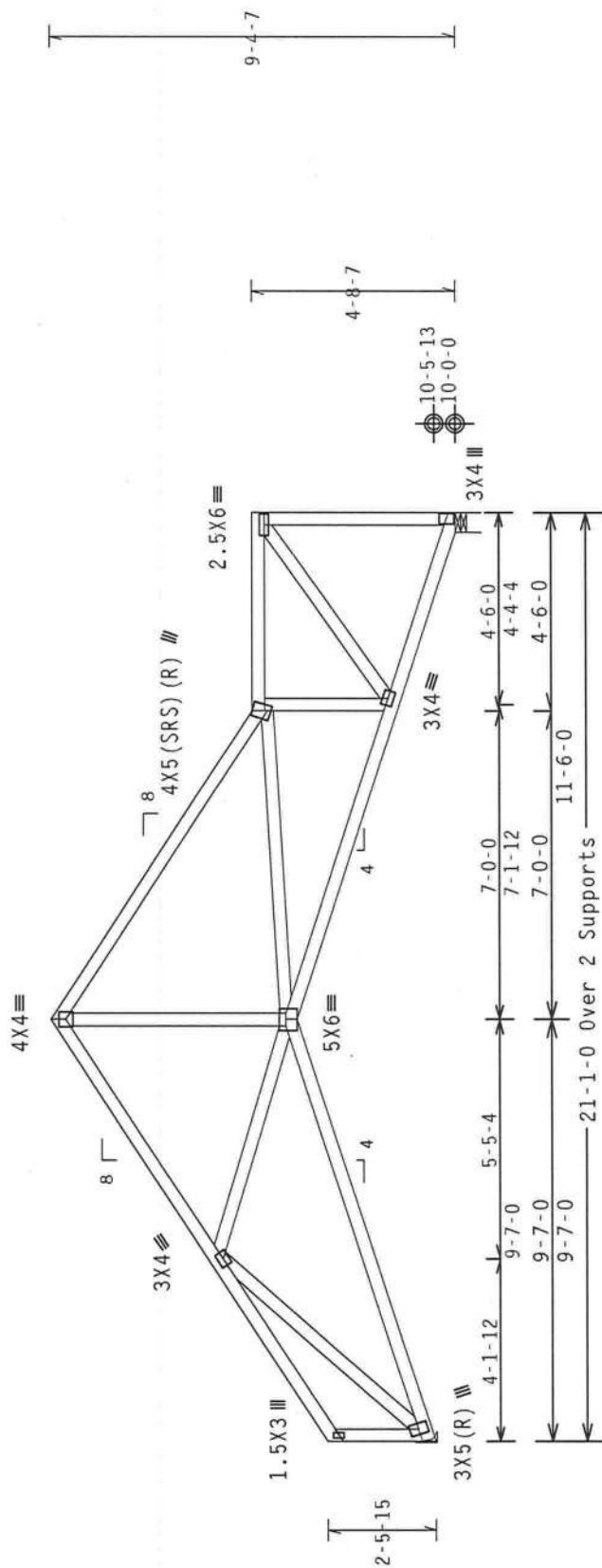
Deflection meets L/240 live and L/180 total load.

MMWFRS loads based on trusses located at least 16.18 ft. from roof edge.

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

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

Shim all supports to solid bearing.

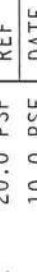


R=897 U=0
RL=135/-12

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

Scale = .25"/Ft.



ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

813 904 9070

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

****[IMPORTANT]** FURNISH THIS DESIGN TO ALL COMPACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety Information, by ITW and WICA) practices prior to performing these functions. Installers shall provide temporary bracing to the trusses until they are properly braced. Trusses shall be braced in accordance with the BCSP. Trusses shall be braced properly attached rigid ceilings. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or 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 Job Details, unless noted otherwise. Refer to drawings I600-2 for standard plate positions. A seal on 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 instructions. 14-BUDG: www.itwinc.com; www.itwinc.org; www.bcsiindustry.org.

11/28/2011

11/28/2011

(11-209--Fill in later BOB JORDAN -- , ** - GS3)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

End verticals 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.

MWFRS loads based on trusses located at least 8.09 ft. from roof edge.

110 mph wind, 16.18 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCpt(+/-)=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.

Shim all supports to solid bearing.

R-897 U-53
RL=126/-99

U=91

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

10 F03. Q No. 22839

Scale =.25"/Ft.

ALPINE

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

WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER
11/28/2011

REF R487-- 61442
DATE 11/28/11
DRW HCUR487 11332073
HC-ENG DF/DF
SEQN- 245467
DUR.FAC. 1.25
JREF- 1UHF487_Z03

(11-209--Fill in later BOB JORDAN -- , ** - CJ1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

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

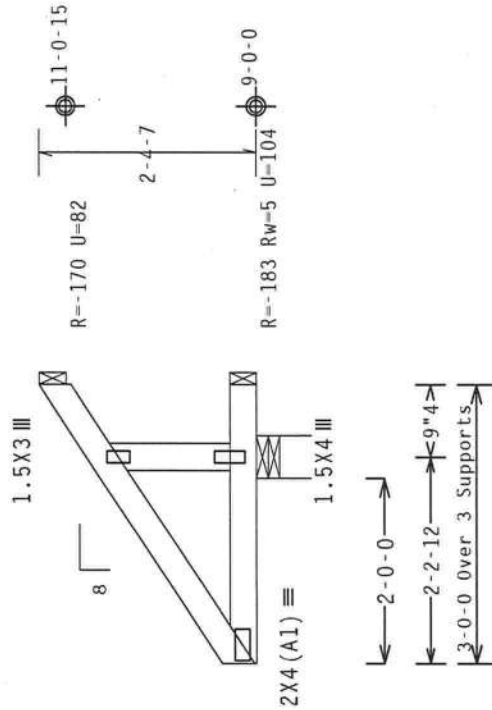
Deflection meets L/240 live and L/180 total load.

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.

Negative reaction(s) of -183# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. 1W-1.00 GCpi(+/-)-0.18

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



R=605 U=0 W=5.5"
RL=45

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

10.03. No. 02839

Scale = .5" / Ft.

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

REF R487 -- 61443

DATE 11/28/11

DRW HCUSR487 11332003

HC-ENG DF/DF

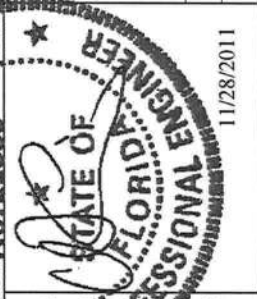
SEQN- 245791

DUR.FAC. 1.25

SPACING 24.0"

JREF- 1UHF487_Z03

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Installers must follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 85, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Failure to build the truss as shown may result in structural failure. The user of this design assumes all liability for the design. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility 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; NICA: www.sbcindustry.com; ICC: www.iccsafe.org



11/28/2011

ALPINE

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

(11-209--Fill in later BOB JORDAN -- , ** - CJ3)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

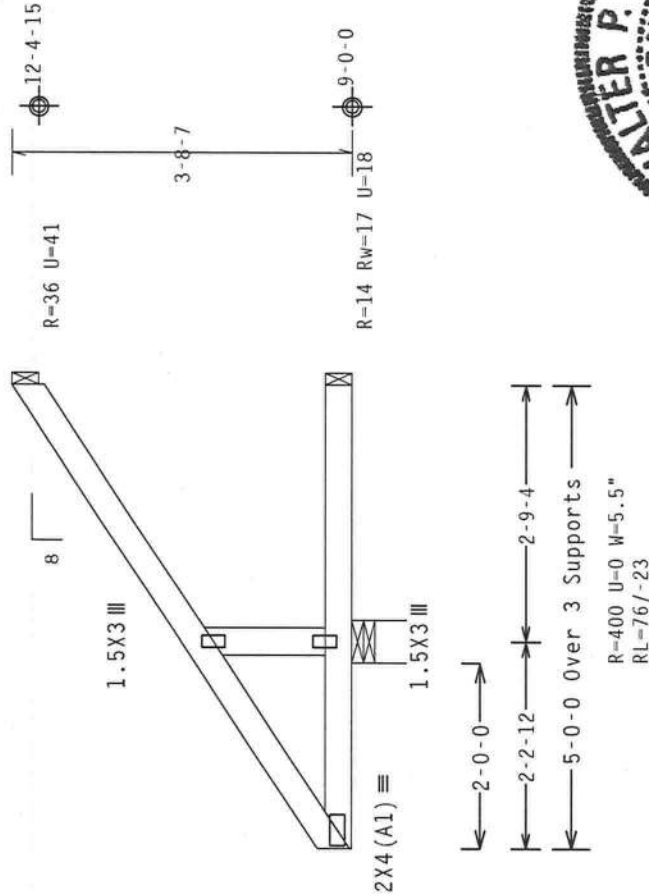
Bottom chord checked for 10.00 psf non-concurrent live load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

10/03 No. 002839

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

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487-- 61444
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332011
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245794
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03

WALTER P. FINN
LICENSE
11/28/2011
FLORIDA
PROFESSIONAL ENGINEER

****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 latest edition of BCSI (Building Component Safety Information, by IPI and WICA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI instructions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraining shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
IPI Building Components Group Inc. (IPI/BCG) shall not be responsible for any deviation from the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on 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 IPI/BCG: www.ipecg.com; TPI: www.tpinat.org; WICA: www.bcsindustry.com; ICC: www.iccsafe.org

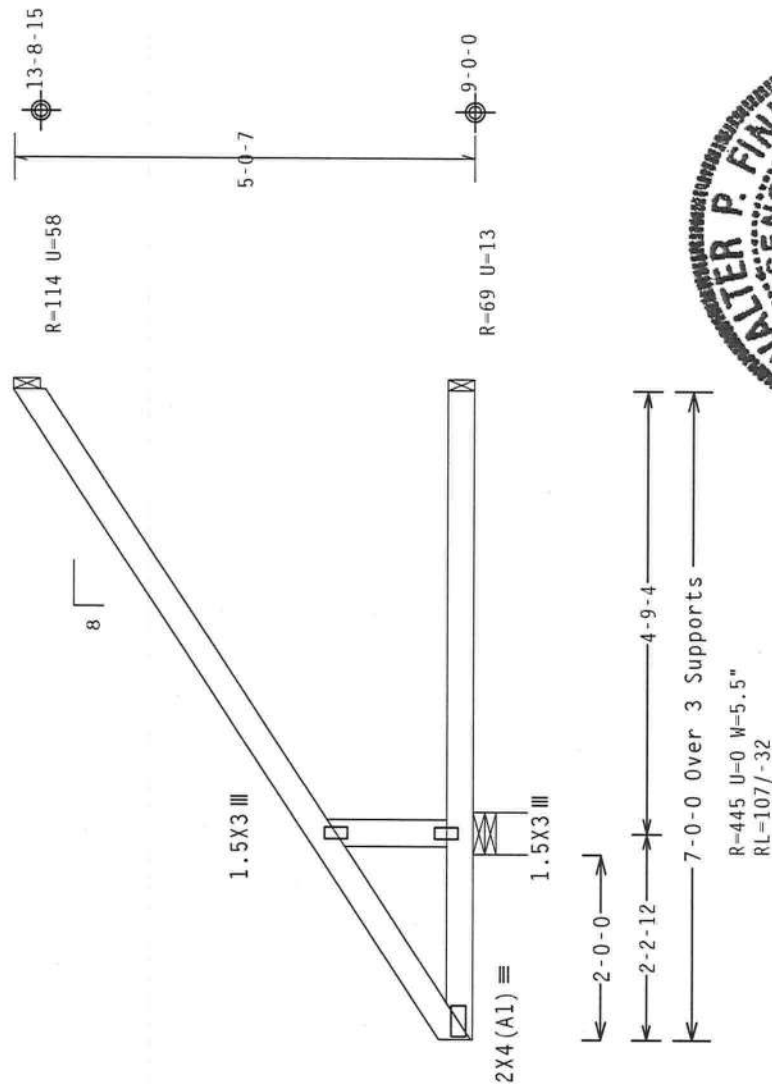
ALPINE
IPI Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpt (+/-)=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.

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.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

10:03 AM 06/28/09

Scale = .5"/Ft.

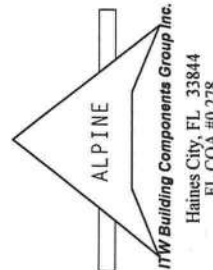
TC LL	20.0	PSF	REF R487-- 61445
TC DL	10.0	PSF	DATE 11/28/11
BC DL	10.0	PSF	DRW HCUR487 1132032
BC LL	0.0	PSF	HC-ENG DF/DF
TOT.LD.	40.0	PSF	SEQN- 245190
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UHF487_Z03

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

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSP (Building Component Safety Information, by TPI and HCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSP.

practices prior to performing these functions. Installers shall provide temporary bracing per SI-1001.1 unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per RCSI sections B3, B7 or B10, as applicable.

ITW Building Components, Group Inc. (IUBCOG) shall not be responsible for any deviation from this drawing. IUBCOG shall not be responsible for any failure to build the truss in accordance with ANSI/TPI 1 for building trusses, or for any fracturing 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 covering 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; IUBCOG: www.iubcog.com; TPI: www.tpi.net; NICA: www.nicaindust.com



(11-209--Fill in later BOB JORDAN -- , ** - EJ7)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

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.

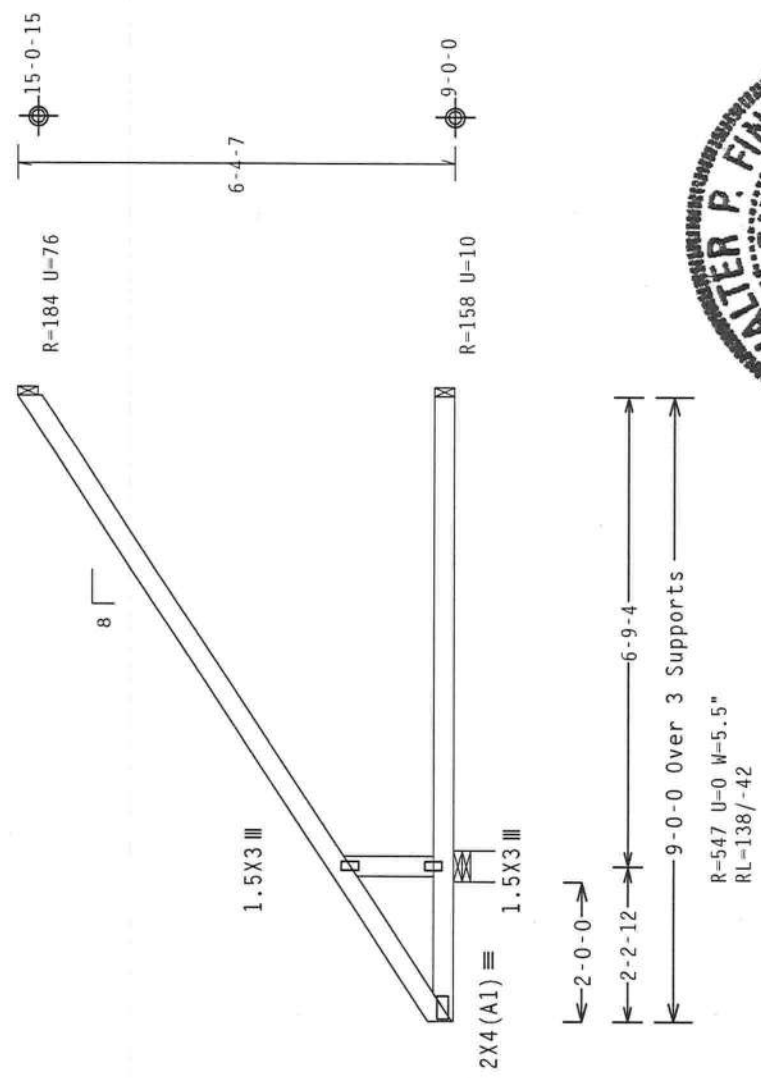
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl(+/-)-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.



Design Crit: FBC2007Res/TPI-2002 (STD FT/RT=10% (0%)/0(0))

PLT TYP. Wave

Scale = .375"/Ft.	REF R487-- 61446
DATE 11/28/11	DRW HCUSR487 11332016
HC-ENG DF/DF	SEQN- 245195
JREF- 1UHF487_Z03	



****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 latest edition of BCSI (Building Component Safety Information, by IPI and WICA) 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 the design shown. The building owner and contractor shall be responsible for handling, shipping, installing and bracing the truss in accordance with ANSI/TPI 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

ALPINE

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

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

Left and right cantilevers are exposed to wind

The following members need concentrated loads at the heel: 5-0-0 span/setback member on the 2-0-0 cant side requires 46 lbs and the 5-0-0 span/setback member on the 2-0-0 cant side requires 46 lbs.

HiJack supports 9-0-0 setback jacks with 2-0-0 cantilever one face; 2-0-0 cantilever opposite face.

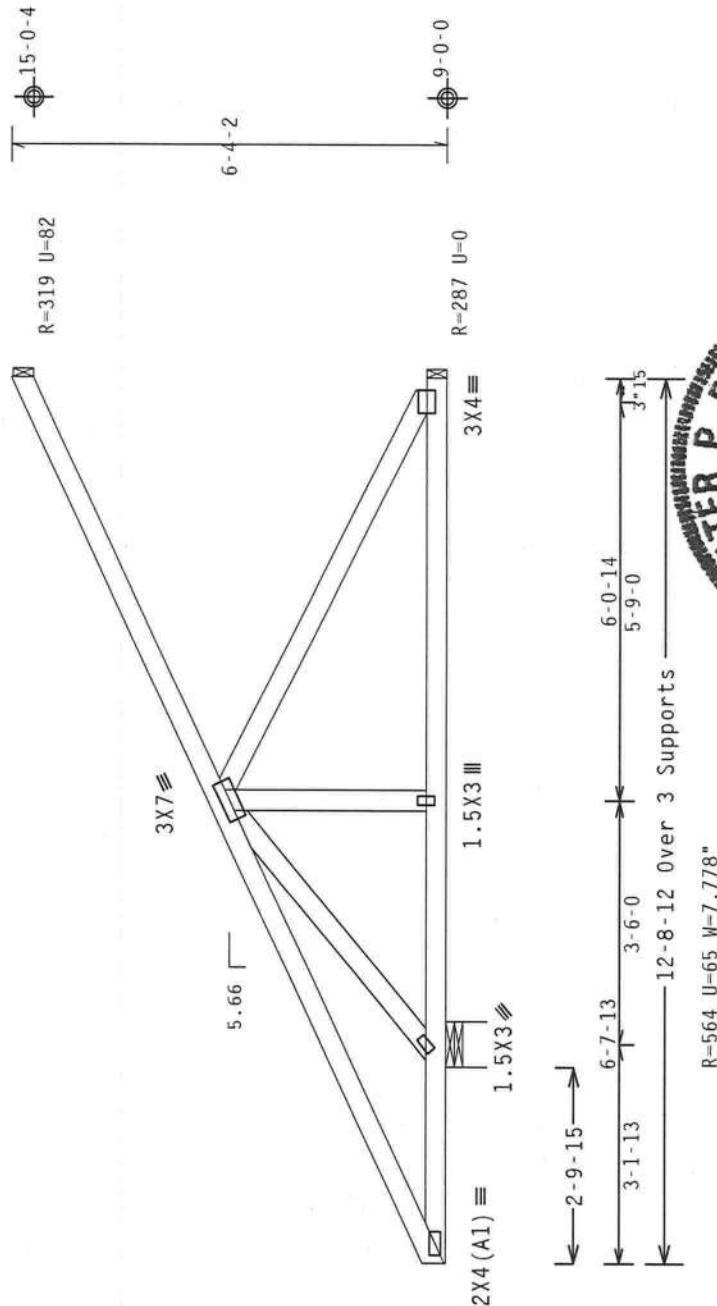
11110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

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

Sub-fascia beam assumptions: 5-0-0 sub-fascia beam on the 2-0-0 cantilever side, 5-0-0 sub-fascia beam on the 2-0-0 cantilever side.

Deflection meets L/240 live and L/180 total load.

Provide (3) 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.



WAVE TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10% (0%) / 0 (0))

QTY2

Scale = .375"/Ft.

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

TC LL	20.0 PSF
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RFF R487-- 61447

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The latest edition of BCSI's Building Component Safety Information, by IPI and WCA (see page 10), contains the most up-to-date information on trussing. The following are some cautions noted otherwise. Two chord shall have properly attached structural sheathing and bottom chord shall have a properly attached roof ceiling. Connections for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

TC DI 10 0 pSE

DATE 11/28/11

shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

PC	DL	10.0	1.51
PC	DL	10.0	0.057

TR/07/TT 71X0

LTV Building Components Group Inc. (LVBCCG) shall not be responsible for any deviation from the design shown or any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installing, erecting or attaching of trusses. Apply plates to each face of truss and position as shown above and on the Joint Detail drawings. Seal all joints with LVBCCG approved sealant. Refer to drawings 160A-2 for standard plate positions. A seal on the end of the truss 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; LVBCCG web: www.lbvccg.com; TPI: www.tpiinc.org; NIA: www.niaindustry.com;

BC LL	0.0 PSF
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HC-ENG DF/DF

[illegible]

TOT.LD. 40.0 PSF

SEQN- 245214

drawing or cover page listing this drawing, responsibility solely for the design shown.

DUR. FAC. 1.25

the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: General notes page: 11N-BCG: www.tlwbeg.com; TPI: www.tpinst.org; NITCA: www.sbcindustry.com;

SPACING 24 0"

18FF- 111HF487 703

(11-209--Fill in later BOB JORDAN -- , ** - J1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

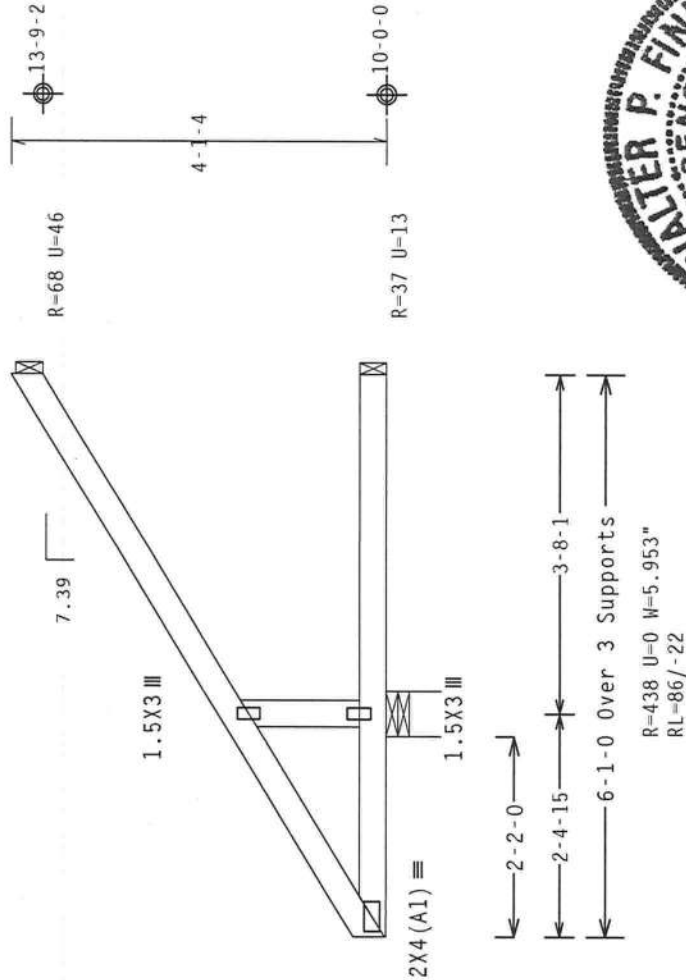
Bottom chord checked for 10.00 psf non-concurrent live load.

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.

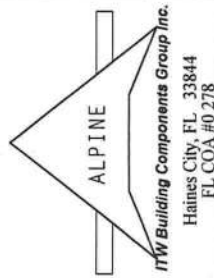
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located
within 4.50 ft from roof edge. CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf. Iw=1.00 GCp1(+/-)-0.18

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

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave



Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10% (0%)/0 (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 BCS (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached riving. All connections shown for permanent lateral restraint shall have bracing installed per BCS sections B5, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design for any reason, including but not limited to, fabricating, handling, shipping, installing and bracing of trusses. Apply plates to each face of truss and position as shown above on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; WCA: www.bcindustry.com; ICC: www.iccsafe.org

10-03. M0022839



FL/-/4/-/-/R/-	Scale = .5"/Ft.
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"
REF	R487-- 61448
DATE	11/28/11
DRW	HCUSR487 11332102
HC-ENG	DF/DF
SEQN	245300
JREF	1UHF487_Z03

(11-209--Fill in later BOB JORDAN -- , ** - J2)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

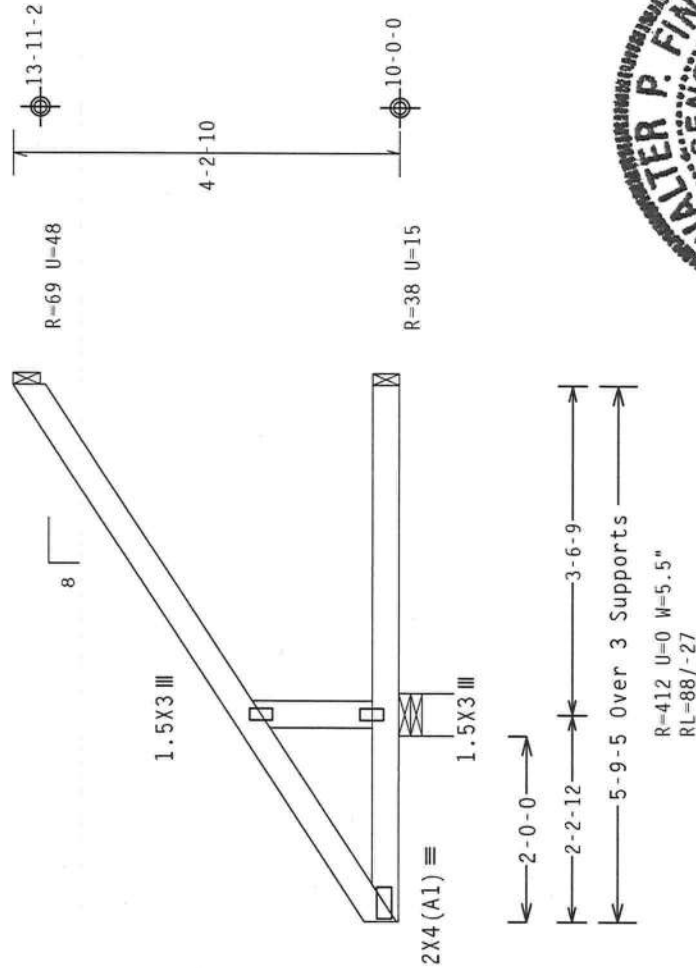
Bottom chord checked for 10.00 psf non-concurrent live load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

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

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10% (0%)/0 (0)

10103.0002839

FL/-4/-R/-

Scale = .5"/Ft.

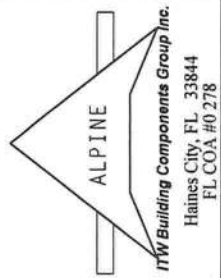
TC LL	20.0 PSF	REF	R487 -- 61449
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332080
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245303
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03



****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. Repair and
for all trusses. Obtain safety information, by IPI and WICA) for all trusses. Obtain safety
practices prior to performing these functions. These functions shall be performed in
Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom
shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint
shall have bracing installed per BCSC sections 83, 87 or 810, as applicable.

IW Building Components Group Inc. (IWBCG) shall not be responsible for any deviation from this
any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing
bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint
Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the
drawing or cover page listing this drawing, indicates acceptance of professional engineering
responsibility for the design shown. The seal shall be placed on the drawing and the building
general notes page: ITH-BCG: www.ithbcg.com; IPI: www.tpinat.org; WICA: www.bctindustry.com;
ICC: www.iccsafe.org



(11-209--Fill in later BOB JORDAN -- , ** - J3)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

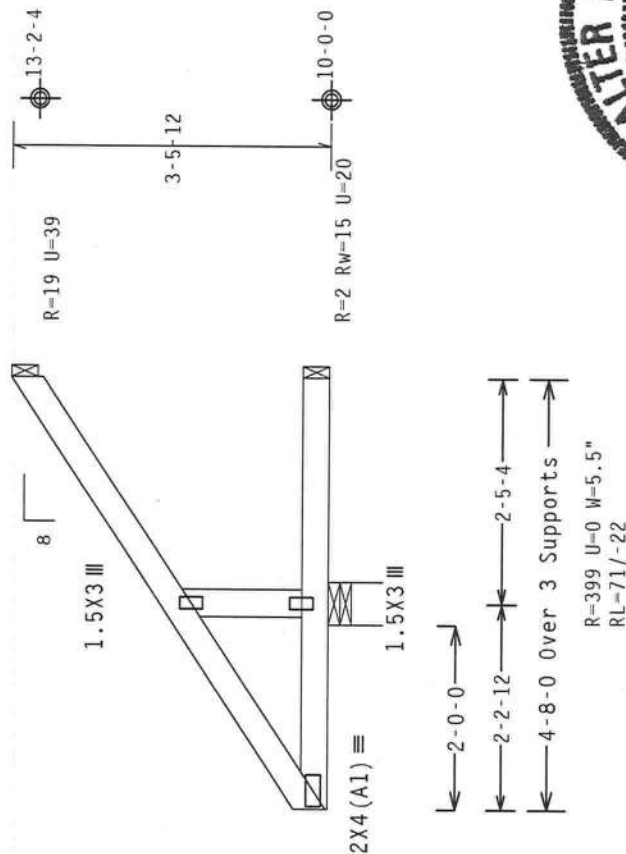
Bottom chord checked for 10.00 psf non-concurrent live load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 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.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487-- 61450
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332103
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245306
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03



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

11/28/2011

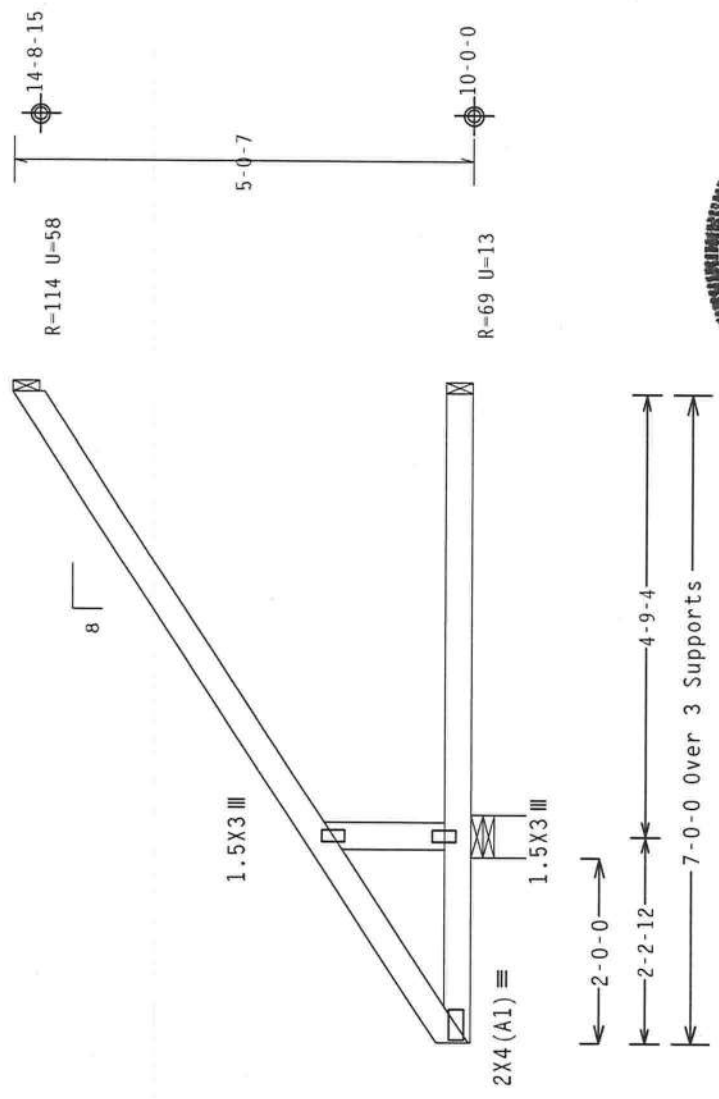
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind
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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.
Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

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

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

107.03 04.0601.16
No. 22839

WALTER P. FINN
LICENSE
No. 22839

STATE OF
FLORIDA
PROFESSIONAL ENGINEER
11/28/2011

TC LL	20.0 PSF	FL/-/4/-/-/R/-	Scale =.5"/Ft.
TC DL	10.0 PSF		REF R487-- 61451
BC DL	10.0 PSF		DATE 11/28/11
BC LL	0.0 PSF		DRW HCUSR487 11332106
TOT.LD.	40.0 PSF		HC-ENG DF/DF
DUR.FAC.	1.25		SEQN- 245309
SPACING	24.0"		JREF- 1UHF487_Z03

	Top	chord	2x4	SP	Dense
Bot	chord	2x4	SP	Dense	
	webs	2x4	SP	Dense	

Special loads

----- (Lumber		Dur. Fac.=1.25 /	Plate Dur. Fac.=1.25)
ITC-From	63 plf at 0.00 to	63 plf at 7.58	
8C-From	20 plf at 0.00 to	20 plf at 7.58	
ITC-19.14	1b Conc. Load at	5.10	
8C-14.00	1b Conc. Load at	5.04	

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

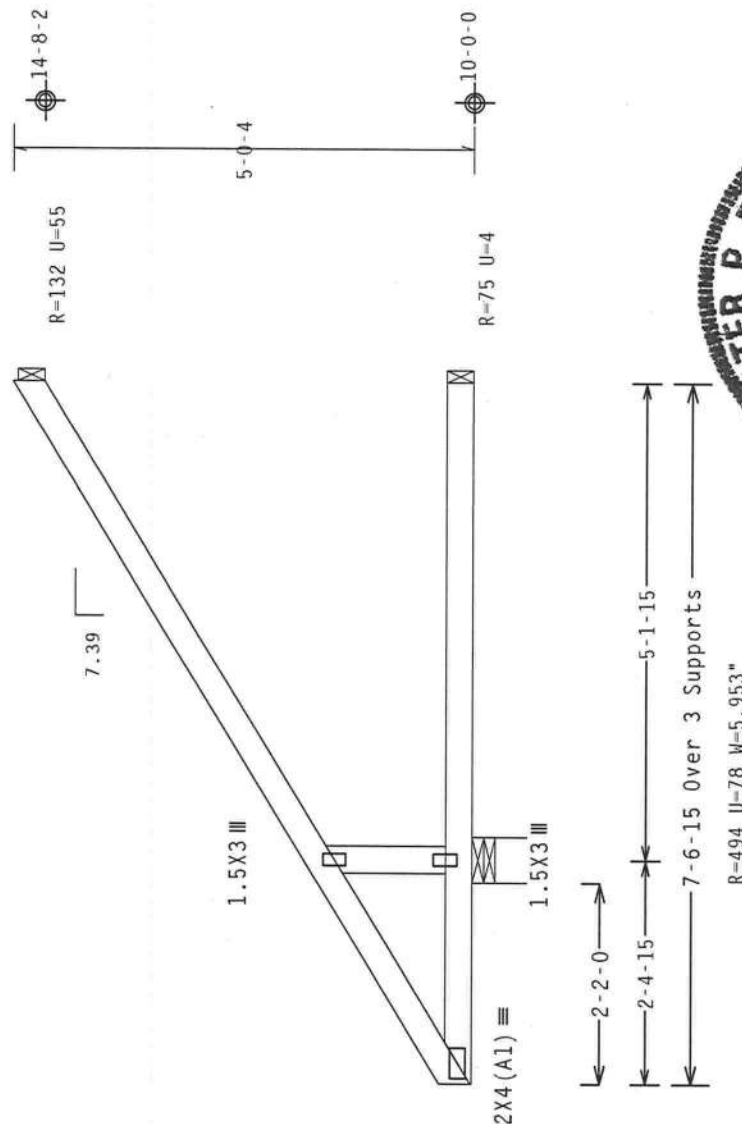
1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Left and right cantilevers are exposed to wind

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

Deflection meets L/240 live and L/180 total 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.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
 $FT/RT=10\%(0\%)/0(0)$

10.03.04.050126 QTY 2

Scale = .5"/Ft.

TC LL	20.0	PSF	REF R487-- 61452
TC DL	10.0	PSF	DATE 11/28/11
BC DL	10.0	PSF	DRW HCUR487 11332101
BC LL	0.0	PSF	HC-ENG DF/DF
TOT.LD.	40.0	PSF	SEQN- 245319
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UHF487_Z03

*****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. The new edition of RCES's Building Component Safety Information, by IP1 and HICA (see page 10), provides the following information on the design, erection and bracing of trusses:

- Trusses are not to be erected or braced until the top chord has been properly attached structural sheathing and bottom chord has been properly attached structural sheathing and both have been properly attached rigid ceiling.
- Trusses are not to be erected or braced until all have a properly attached rigid ceiling. Locations for permanent lateral restraining shall have a properly attached RCES sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (IWBGG) shall not be responsible for any deviation from the design shown on this drawing. IWBGG shall not be responsible for any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing, or erecting the truss. Apply plates to each face of truss and position as shown above and on the Joist Connection Details, unless noted otherwise. Refer to drawings 1608-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. IWBGG: web: www.iwbgg.com; IWBGG: info@iwbgg.org; IWBGG: www.1855call.org

ALPINE

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

Haines City, FL 33844
FL COA #0778

11/28/2011

NG 24.0"

JREF- 1UHF487 203

Negative reaction(s) of -269# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 15.00 ft mean ht, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

psf. $I_W=1.00$ GCpi (+/-)=0.18

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

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.

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0))

Scale = .5"/Ft.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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REC'D

100

****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 BCSP (Building Construction Safety Practices) and AISC (American Institute of Steel Construction) practices prior to performing these functions. Installers shall provide bracing for all trusses unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections 83, 87 or 810, as applicable.

<

HC-ENG DF/DF

15/05/2015

SEQN- 245332

1000

18FF- 11HF487

SPACING 24 0"

11/28/2011

bcindustry.com

general notes page; IIR-8C6: www.itwbcg.com; IPI: www.tpinst.org; NICA: www.nica.org; ICC: www.iccsafe.org

James City, FL 32044
FL COA #0 278

(11-209--Fill in later BOB JORDAN -- , ** - JV5)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

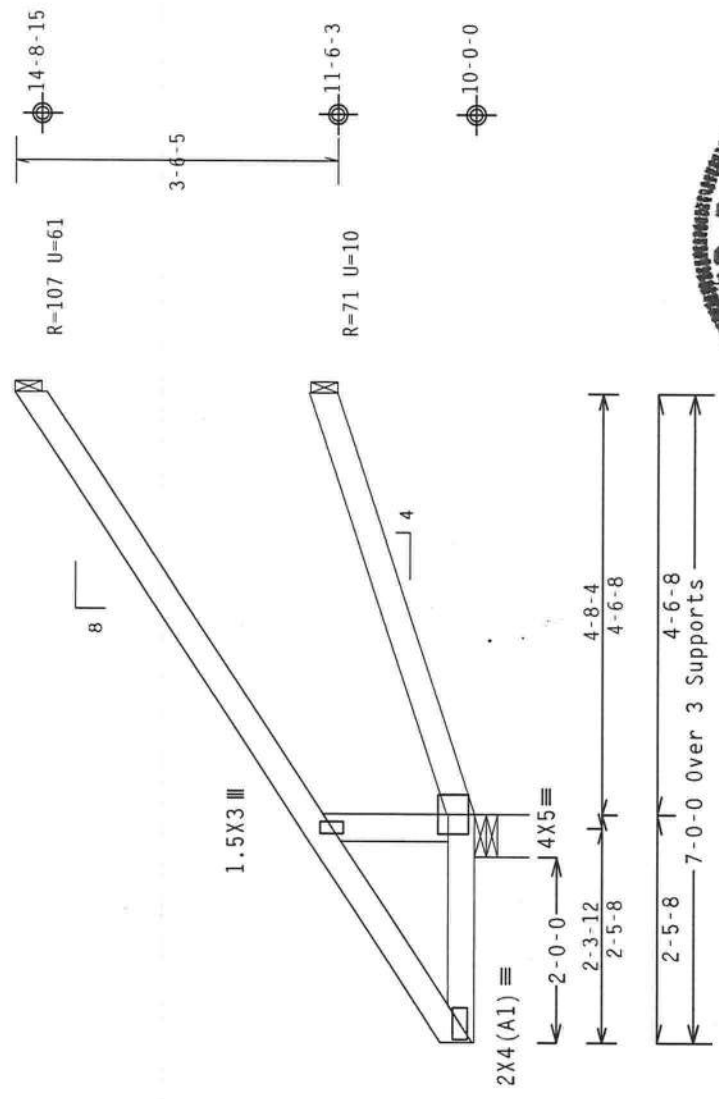
Left and right cantilevers are exposed to wind
Bottom chord checked for 10.00 psf non-concurrent live load.
Shim all supports to solid bearing.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. $1W=1.00 GCp1(+/-)=0.18$

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

Deflection meets L/240 live and L/180 total load.

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.



R=456 U=0 W=5.5"
RL=115/-41

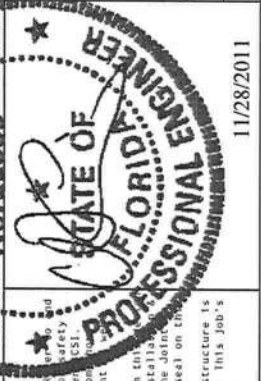
Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

10/03/2011 10:03 AM 2839

FL/-4/-/-R/- Scale =.5"/Ft.

TC LL	20.0 PSF	REF	R487-- 61455
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332022
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245340
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03



****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 latest edition of BCSI (Building Component Safety Information, by TPI and MICA) for practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/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 1604-2 for standard plate positions. A seal on the design shall be provided by the designer. The seal shall be the responsibility of 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.tpinet.org; MICA: www.bcsiindustry.com; ICC: www.iccsafe.org

ALPINE

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

(11-209--Fill in later BOB JORDAN -- , ** - JV3S)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

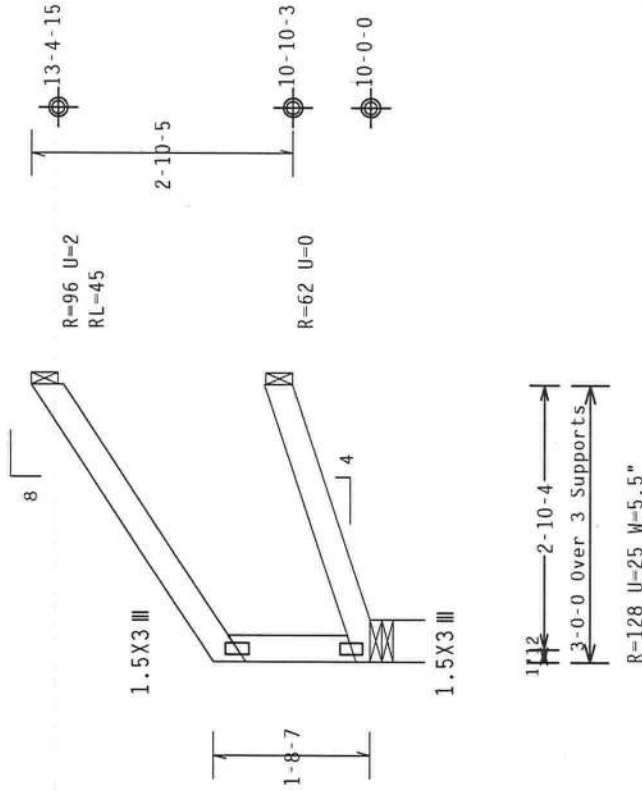
Deflection meets L/240 live and L/180 total load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0
psf. Iw=1.00 GCpl(+/-)=0.18

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

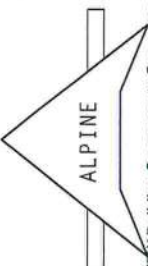
Shim all supports to solid bearing.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

Scale =.5"/Ft.

 Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		10.03. No. 0501336		QTY 2		FL / - 4 / - / - R / -		REF R487 -- 61456	
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the following practices prior to performing these functions. Installer shall provide temporary bracing to the truss. 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.		11/28/2011		11/28/2011		11/28/2011		DATE 11/28/11	
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering structure. 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; VITA: www.vitaindustry.com; ICC: www.iccsafe.org		11/28/2011		11/28/2011		11/28/2011		DRW HCUSR487 11332029	
									HC-ENG DF/DF	
									SEQN- 245343	
									JREF- 1UHF487_Z03	

(11-209--Fill in later BOB JORDAN -- , ** - JV5S)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

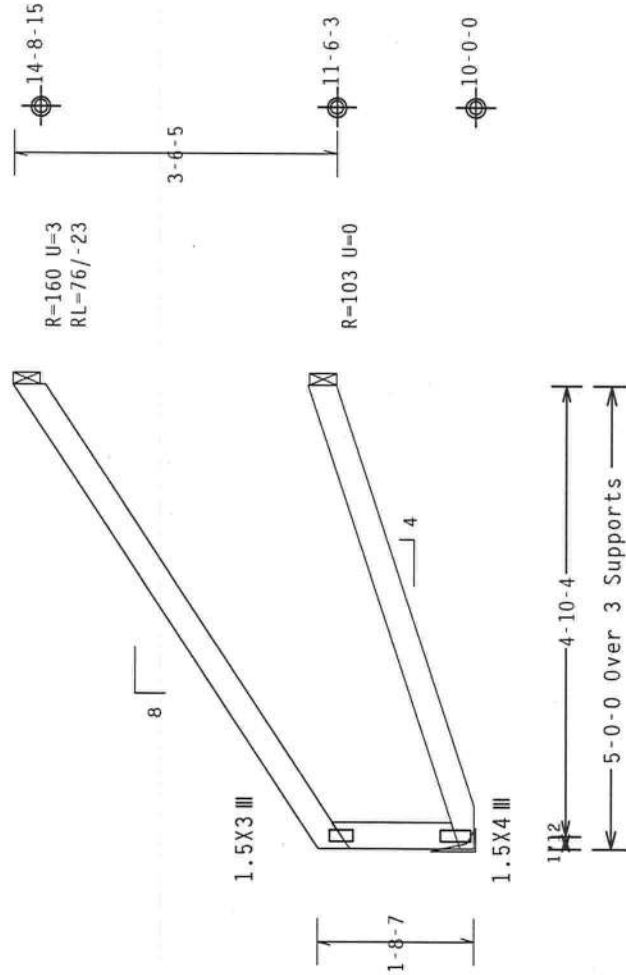
Deflection meets L/240 live and L/180 total load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. Iw=1.00 GCp1(+/-)-0.18

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

Shim all supports to solid bearing.



R=213 U=42

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

Scale =.5"/Ft.

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

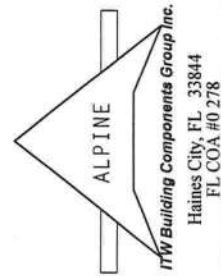
QTY#2

10-03-04 060136
16-22836

TC LL	20.0 PSF	REF	R487 -- 61457
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332046
BC LL	0.0 PSF	HC-ENG	DF/DF *
TOT.LD.	40.0 PSF	SEQN	245346
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1UHF487_Z03



****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 NICA) 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 any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job details, unless noted otherwise. Refer to drawings 1606-2 for standard plate positions. A seal on the bottom chord of the truss shall be provided. 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; NICA: www.bcsiindustry.com; ICC: www.iccsafe.org



110 mph wind, 15.04 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

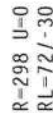
Wind loads and reactions based on MWFRS with additional C&C member design.

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

Deflection meets L/240 live and L/180 total load.

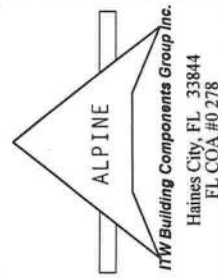
Shim all supports to solid bearing.

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.

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0))

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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TC LL	20.0	PSF	REF	R487--	61458
TC DL	10.0	PSF	DATE	11/28/11	
BC DL	10.0	PSF	DRW	HCUSR487	11332024
BC LL	0.0	PSF	HC-ENG	DF/DF	
TOT.LD.	40.0	PSF	SEQN-	245354	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1UHF487_Z03	



Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

Left end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.44" due to live load and 0.30" due to dead load.

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

Shim all supports to solid bearing.

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.

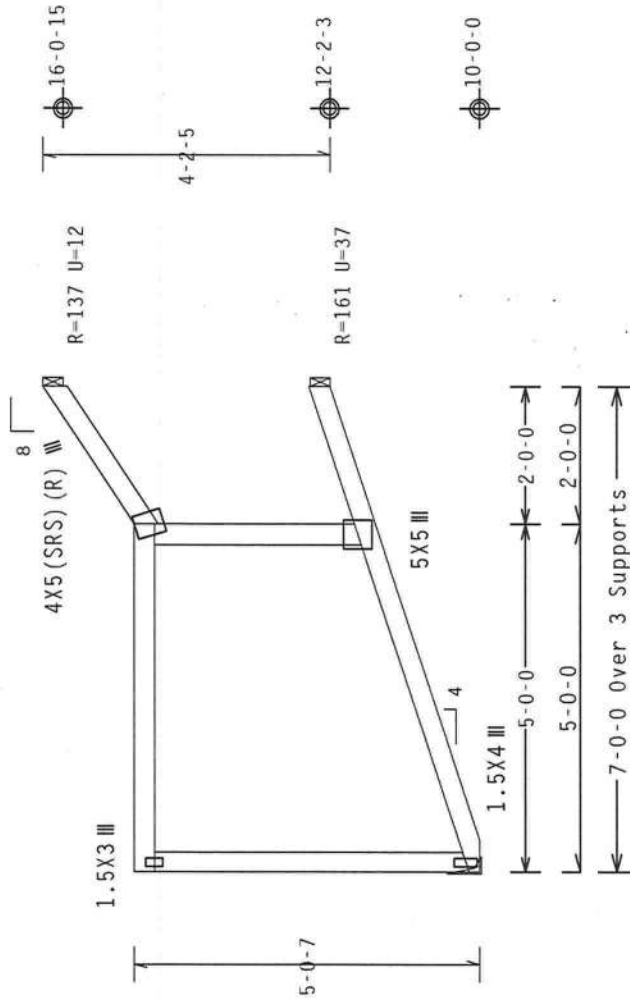
110 mph wind, 15.70 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

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.

MFIRS loads based on trusses located at least 7.85 ft. from roof edge.



R=298 U=20
RL=42/-21

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

10.03.202839

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

Scale = .375" / Ft.

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

...

+

FSC

REF R487-- 61459



ALPINE

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. To follow the latest edition of BCSI Building Component Safety Information, by IPI and MICA) practices prior to performing these functions. Installers shall provide temporary bracing per CSI. 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 a properly installed per BCSI sections B3, B7 or B10, as applicable.

IW Building Components Group Inc. (IWBCG) shall not be responsible for any deviation from this information due to manufacturer's errors or omissions. If a manufacturer fails to conform 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 100A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering practice and the responsibility of the building designer per ANSI/TPI 1 Sec. 2. For more information see: This Job's general notes page; IW-BCG: www.iwbcg.com; TPI: www.tpinet.org; MICA: www.abcdindustry.com; www.tccsafe.org



FS
FS
FS
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DATE	11/28/11
DRW	HCUSR487 113203333
HC-ENG	DF/DF
SEQN-	245358
REF-	1UHF487_Z03

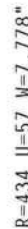
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1 (+/-)=0.18

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

Sub-fascia beam assumptions: 5-0-0 sub-fascia beam on the 2-0-0 cantilever side, 5-0-0 sub-fascia beam on the 2-0-0 cantilever side.

Deflection meets L/240 live and L/180 total 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.



Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

Scale = .5"/Ft.

[illegible]

(11-209--Fill) in later BOB JORDAN -- . ** - CJ5T)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

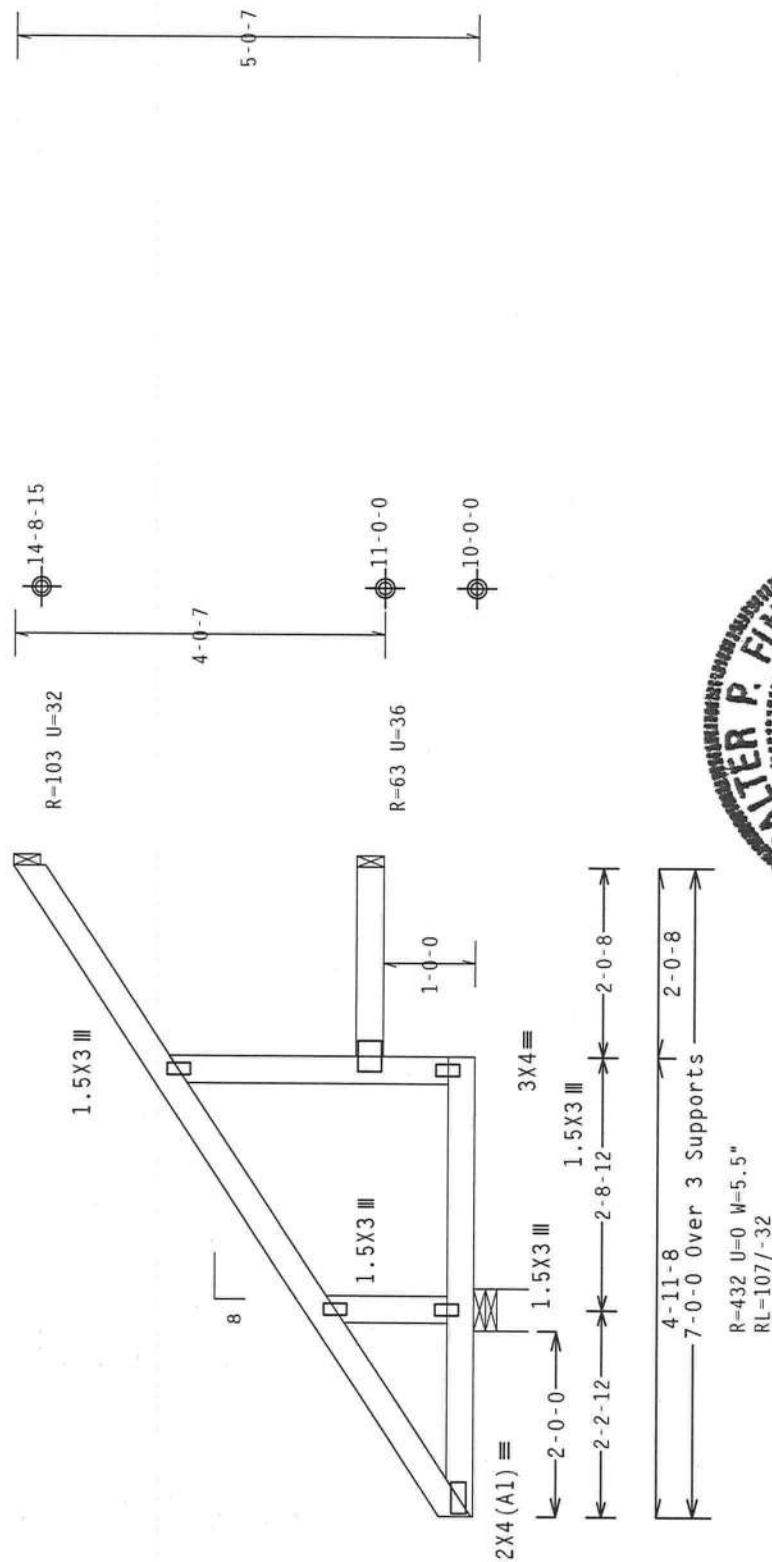
Bottom chord checked for 10.00 psf non-concurrent live load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{Cp1}(+/-)=0.18$

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

Deflection meets L/240 live and L/180 total load.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

Scale = .5" / Ft.

10/03/04 060136 QTY 1

FL / - 4 / - / R / -

TC LL	20.0 PSF	REF	R487 -- 61462
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332053
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245800
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03

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 instructions and safety information, by IPI and WICA. Do not alter the design or installation instructions. Unless noted otherwise, top chord shall have properly attached structural sheathing and batt insulation. Bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCIS sections 83, 87 or 810, as applicable.

IITW Building Components Group Inc. (IITWBCG) shall not be responsible for any deviation from the design or installation instructions. Apply plates to each face of truss and position as shown above and on the job. Details, unless noted otherwise. Refer to drawings 1604-1 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering. The responsibility of the building designer per ANSI/TPI 1.5-02 and use of this design for any structure is the responsibility of the building designer. IITWBCG: www.iitwbcg.com; IPI: www.tpiinst.org; WICA: www.bcindustry.com; ICC: www.iccsafe.org

ALPINE

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



	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3		

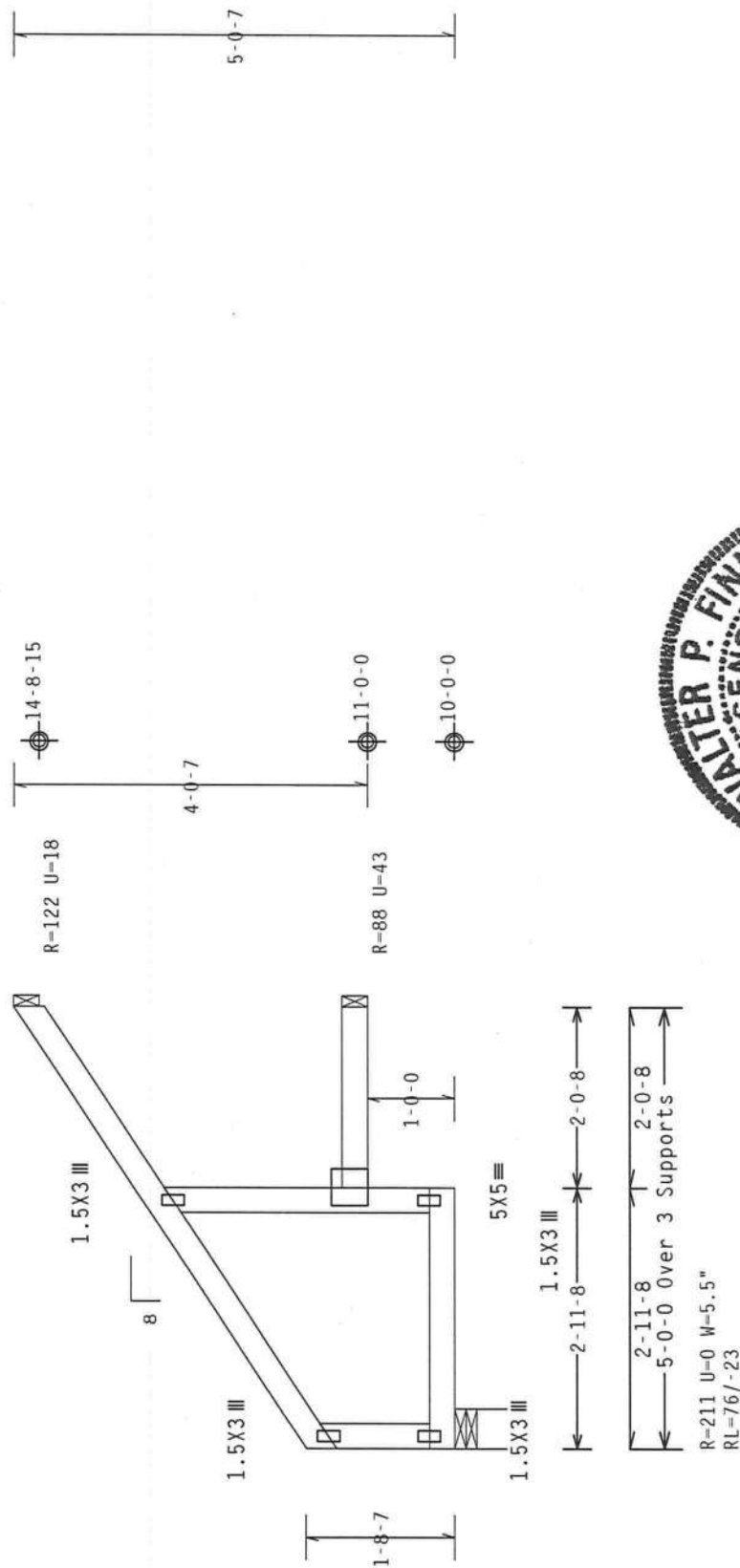
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

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

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

Deflection meets L/240 live and L/180 total 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.



R=211 U=0 W=5.5"
RL=76/-23

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

FL/-/4/-/-/R/-
Scale = .5"/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. All trusses must be braced in accordance with the latest edition of CSI Building Components Manual, by American Institute of Steel Construction, Inc. (AISC), and the applicable provisions of the building code. Trusses shall have a 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 BCSP sections B3, B7 or B10, as applicable.

LTV Building Components Group Inc. (LVBGC) shall not be responsible for any deviation from this drawing or any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, erection, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details drawings. The manufacturer shall be responsible for providing all necessary details. A seal on this drawing indicates acceptance of professional engineering design services by LVBGC. This job's responsibility solely for the design shown. The suitability and use of this design for any structure is the user's responsibility. For more information, contact LVBGC at 800-762-9222. This job's general notes page: <http://www.lvbtc.com>; TPI: www.tpinet.org; NCA: www.abcmindustry.com; www.1ccsa.org



11/28/2011

JREF- 1UHF487_Z03

SPACING 24.0"

11/28/2011

1. *What is the purpose of the study?*
 2. *What are the research objectives?*
 3. *What is the research methodology?*
 4. *What are the results of the study?*
 5. *What are the conclusions of the study?*
 6. *What are the implications of the study?*
 7. *What are the limitations of the study?*
 8. *What are the future research directions?*
 9. *What are the contributions of the study?*
 10. *What are the key findings of the study?*
 11. *What are the main results of the study?*
 12. *What are the primary outcomes of the study?*
 13. *What are the secondary outcomes of the study?*
 14. *What are the tertiary outcomes of the study?*
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www.sbcindustry.

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ITW-BCG: www.itw-bcg.com

general notes page.
C: www.iccsafe.org

844

aines City, FL
FL COA #02

(11-209--Fill in later BOB JORDAN -- , ** - CJ7ST)

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

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

Deflection meets L/240 live and L/180 total load.

Fasten rated sheathing to one face of this frame.

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

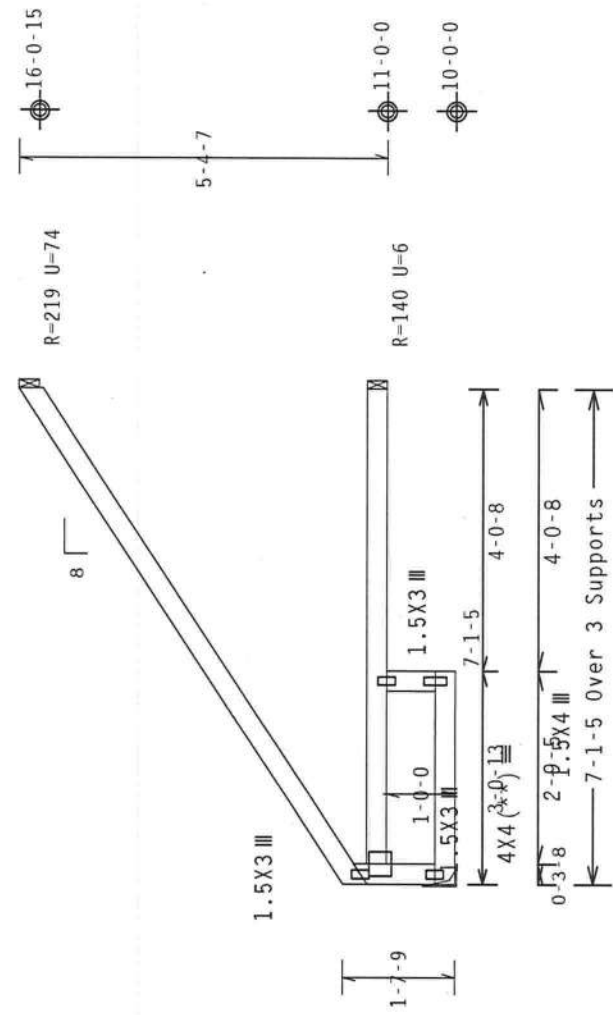
Laterally brace chord member above filler @ 24" O.C. or as specified, including a lateral brace at chord ends.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCpl(+/-)=0.18

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

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.



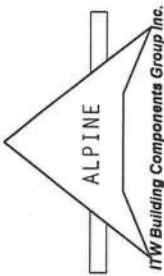
R=300 U=0
RL=108/-33

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

Scale = .375"/Ft.

	FL / - 4 / - / - / R / -		Scale = .375"/Ft.	
	TC LL	20.0 PSF	REF R487-- 61464	
	TC DL	10.0 PSF	DATE 11/28/11	
	BC DL	10.0 PSF	DRW HCUR487 11332005	
	BC LL	0.0 PSF	HC-ENG DF/DF	
			TOT.LD. 40.0 PSF	SEQN- 245818
			DUR.FAC. 1.25	
			SPACING 24.0"	JREF- 1UHF487_Z03


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. Trusses are designed for use with the following bracing and connections. Trusses shall be installed in accordance with the following practices prior to performing these functions. Installers shall provide temporary bracing per the following notes. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. Trusses shall be installed in accordance with the following practices. 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(11-209--Fill in later BOB JORDAN -- , ** - CJ7T)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

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

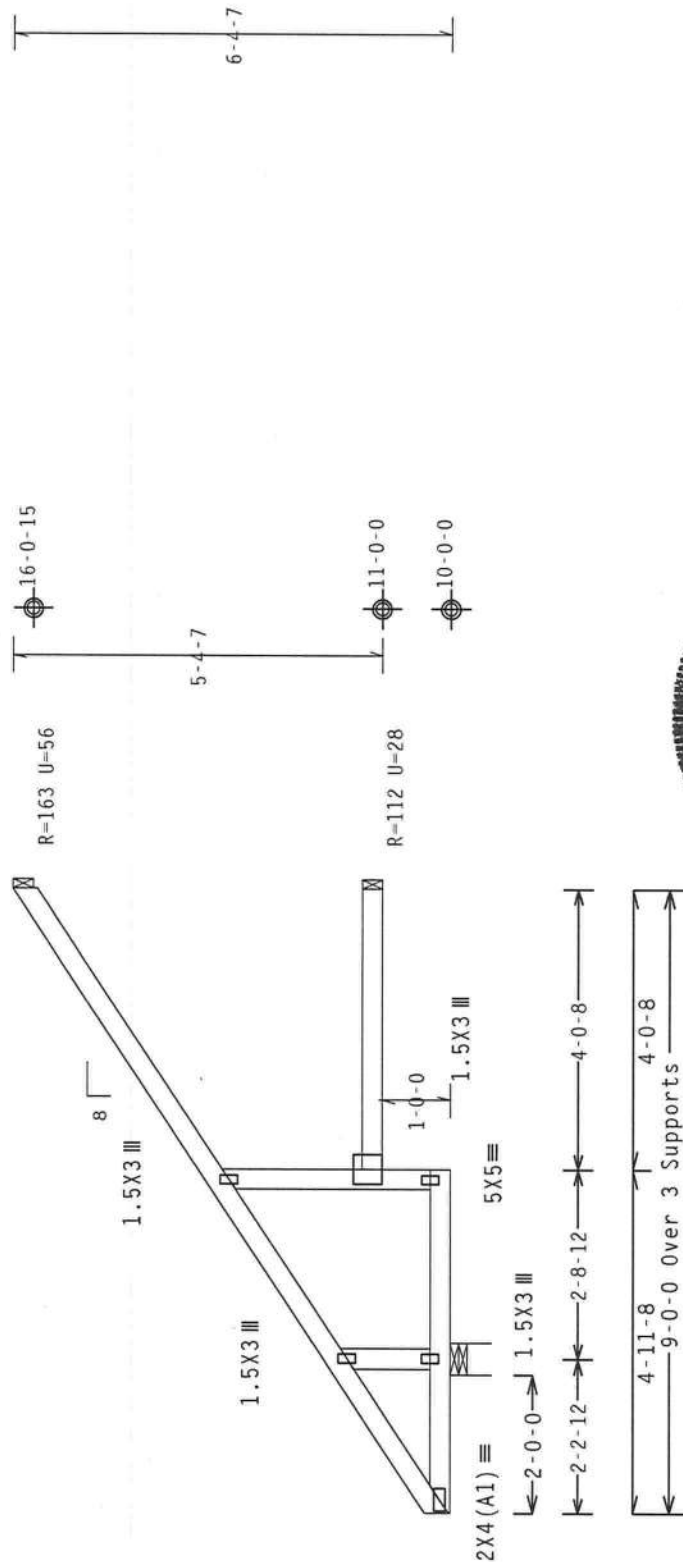
MMFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. $I_w=1.00$ GCPI(+/-)-0.18

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

Deflection meets L/240 live and L/180 total load.

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.



R-503 U-0 W-5.5"
RL=138/-42

Design Crit: FBC2007Res/TPI-2002 (STD)
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 BCS (Building Component Safety Information, by TPI and WCA) for details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the bottom chord shall have a properly attached seal. Locations shown for permanent lateral restraining shall have bracing installed per BCS sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the details 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 the bottom chord shall have a properly attached seal. Locations shown for permanent lateral restraining shall have bracing installed per BCS sections B3, B7 or B10, as applicable.
responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer. Refer ANSI/TPI 1, Sec. 2.6. 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

10/03 No. 0602839



Scale = .375"/Ft.

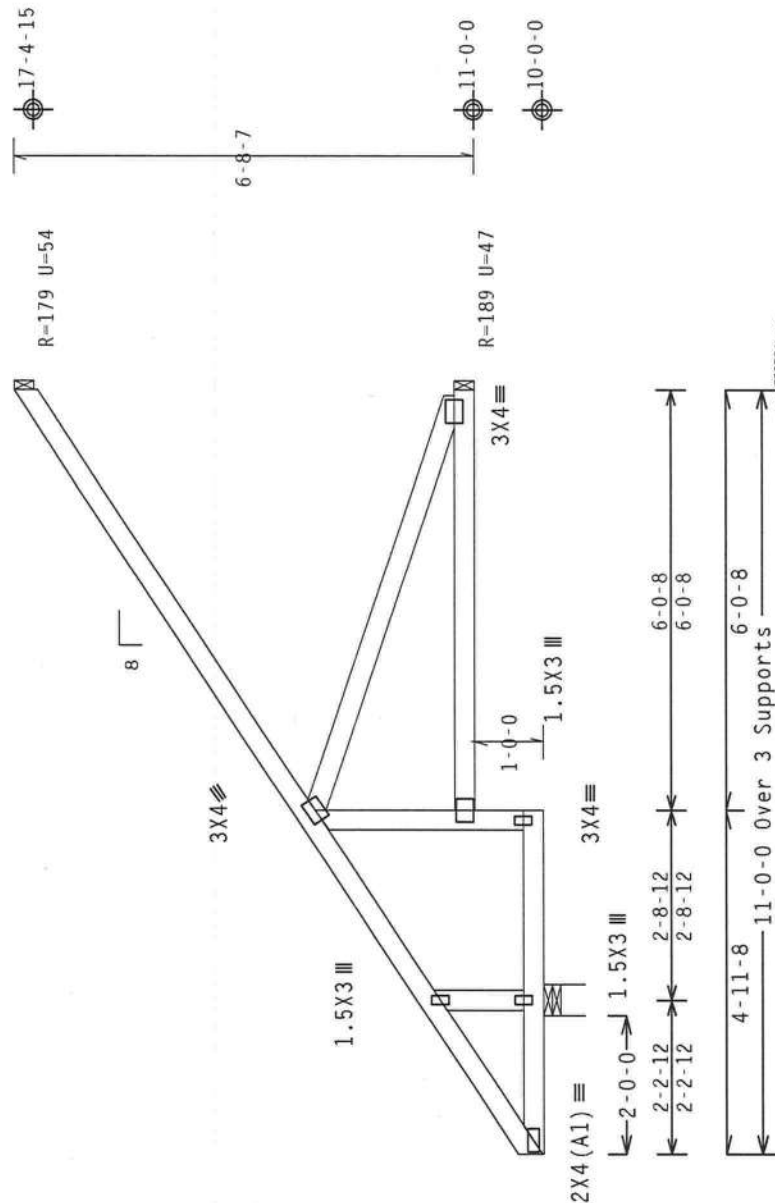
TC LL	20.0 PSF	FL/-/4/-/-/R/-	REF	R487-- 61465
TC DL	10.0 PSF		DATE	11/28/11
BC DL	10.0 PSF		DRW	HCUSR487 11332060
BC LL	0.0 PSF		HC-ENG	DF/DF
TOT.LD.	40.0 PSF		SEQN-	245823
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1UHF487_Z03

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpt (+/-)=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.

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.



R=580 U=0 W=5.5"
RL=169/-51

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0))

PLT TYP. Wave

30CZ00/RES/1P1-200Z(310)
FT/RT=10%(0%)/0(0)

Scale = .375"/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. Follow the latest edition of RCSS (Building Connected Roof Systems) for complete information on bracing. Trusses shall have a 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 RCSS sections 83, 87 or 810, as applicable.

[illegible]

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

11/28/2011

24.0"

JREF- 1UHF487_Z03

(11-209--F111 in later BOB JORDAN -- , ** - EJ9)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

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

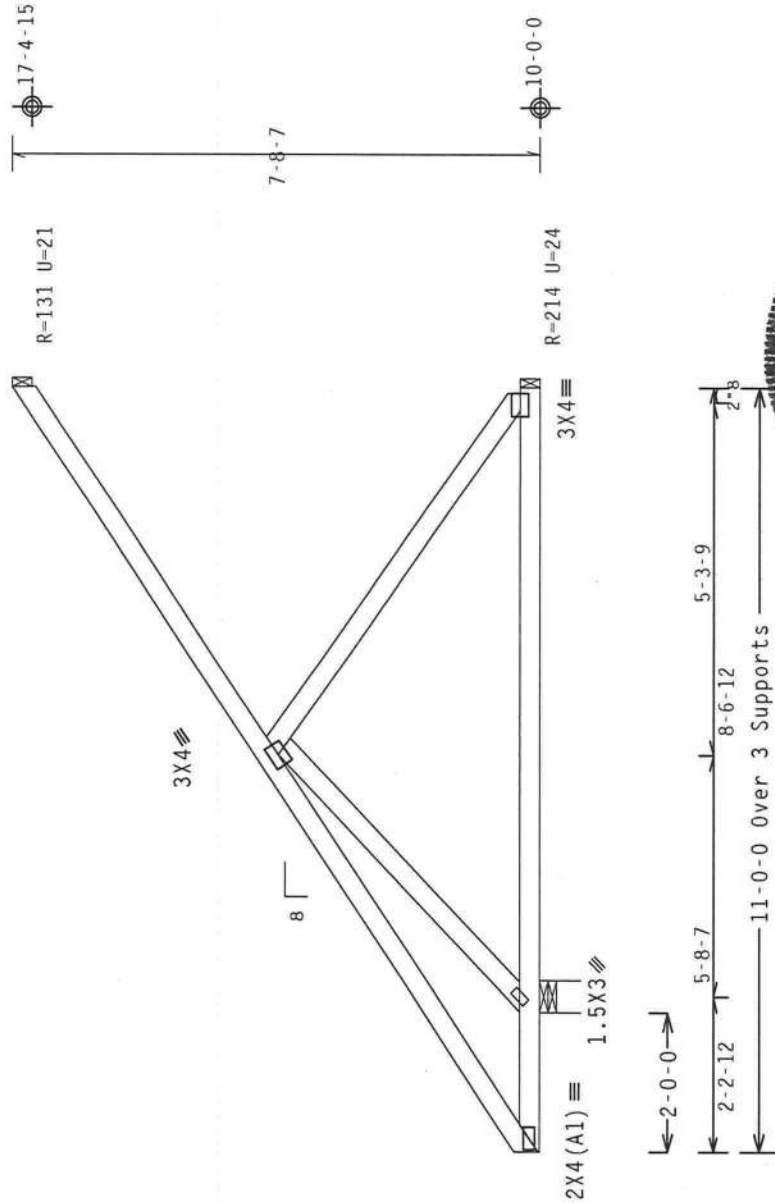
MMFRS loads based on trusses located at least 15.00 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

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

Deflection meets L/240 live and L/180 total load.

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.



R=580 U=0 W=5.5"
RL=112/-51

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)



****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 latest edition of BCSI (Building Component Safety Information, by TPI and MICA) 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 bracing installed per BCSI sections B7, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown on this drawing. The user of this drawing shall be responsible for the design and bracing of trusses. Apply plates to each face of truss and position as shown above on the job. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on 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.tpiinst.org; MICA: www.sbcindustry.com; ICC: www.iccsafe.org

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

Scale = .375" / Ft.	FL / - / 4 / - / - / R / -	QTY 1
REF R487 -- 61468	TC LL 20.0 PSF	
DATE 11/28/11	TC DL 10.0 PSF	
DRW HCUSR487 11332055	BC DL 10.0 PSF	
HC-ENG DF/DF	BC LL 0.0 PSF	
SEQN- 245853	TOT.LD. 40.0 PSF	
	DUR.FAC. 1.25	
JREF- 1UHF487_Z03	SPACING 24.0"	

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

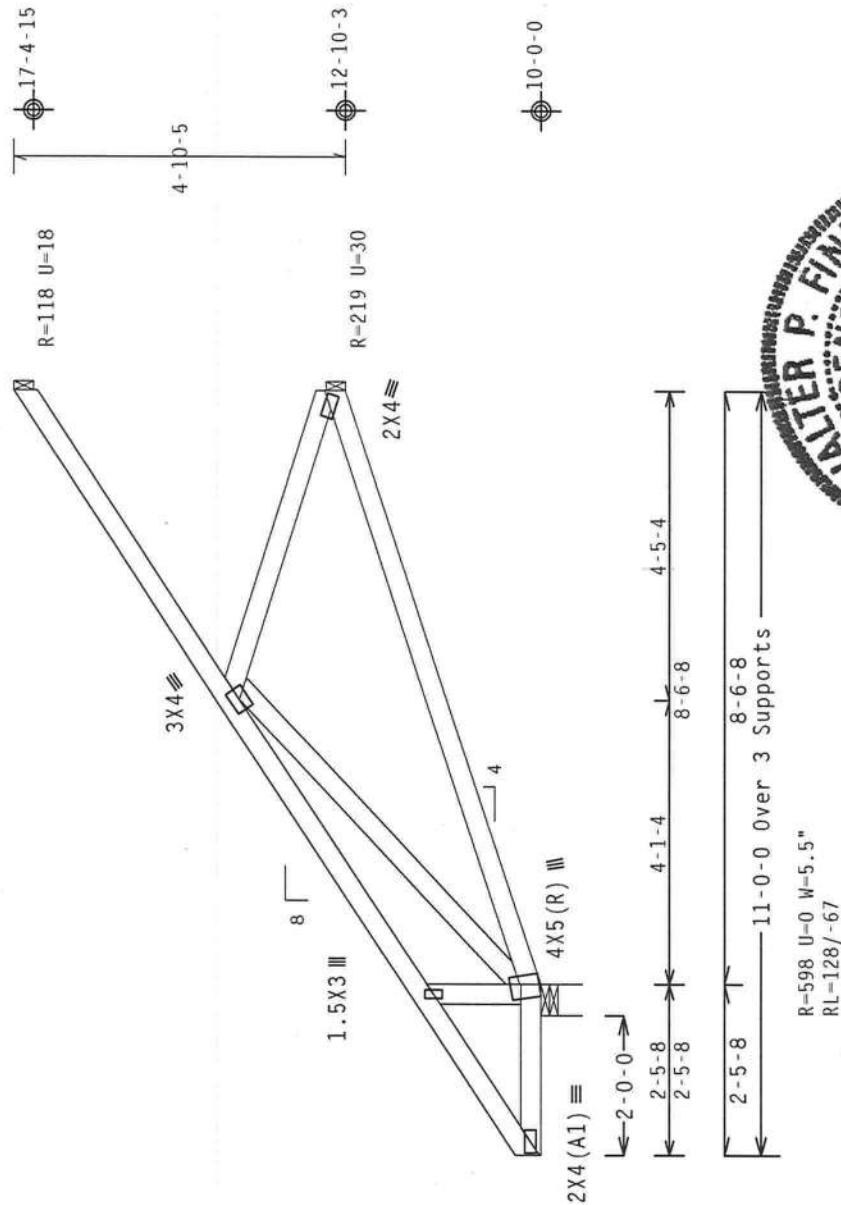
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1 (+/-)=0.18

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

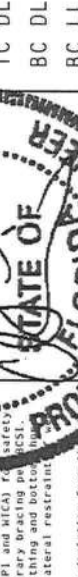
Deflection meets L/240 live and L/180 total load.

Deflection meets L/240 live and L/180 total load.

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

Design Crit: FBC2007Res/TPI-2002 (STD
 $FT/RT=10\%(0\%)/0(0)$

Scale = .375"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 Tel. COV #0 278	**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 latest edition of BC31 (Building Component Safety Information, by IFPI and NITCA) and the manufacturer's instructions for safe handling and installation of this product. 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 BC31 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, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joining details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the design engineer. For more information, please contact your local sales representative or the following designers: IFPI: www.ifpi.net; NITCA: www.nitcausa.org; ICC: www.iccsafe.org		TC LL	20.0	PSF	REF	R487--	61469	
			TC DL	10.0	PSF	DATE	11/28/11		
			BC DL	10.0	PSF	DRW	HCUSR487	11332038	
			BC LL	0.0	PSF	HC-ENG	DF/DF		
			TOT.LD.	40.0	PSF	SEQN-	245863		
DUR.FAC.			1.25						
SPACING			24.0"	JREF- 1UHF487 Z03					

(11-209--Fill in later BOB JORDAN -- , ** - EJ9VS)

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

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

Deflection meets L/240 live and L/180 total load.

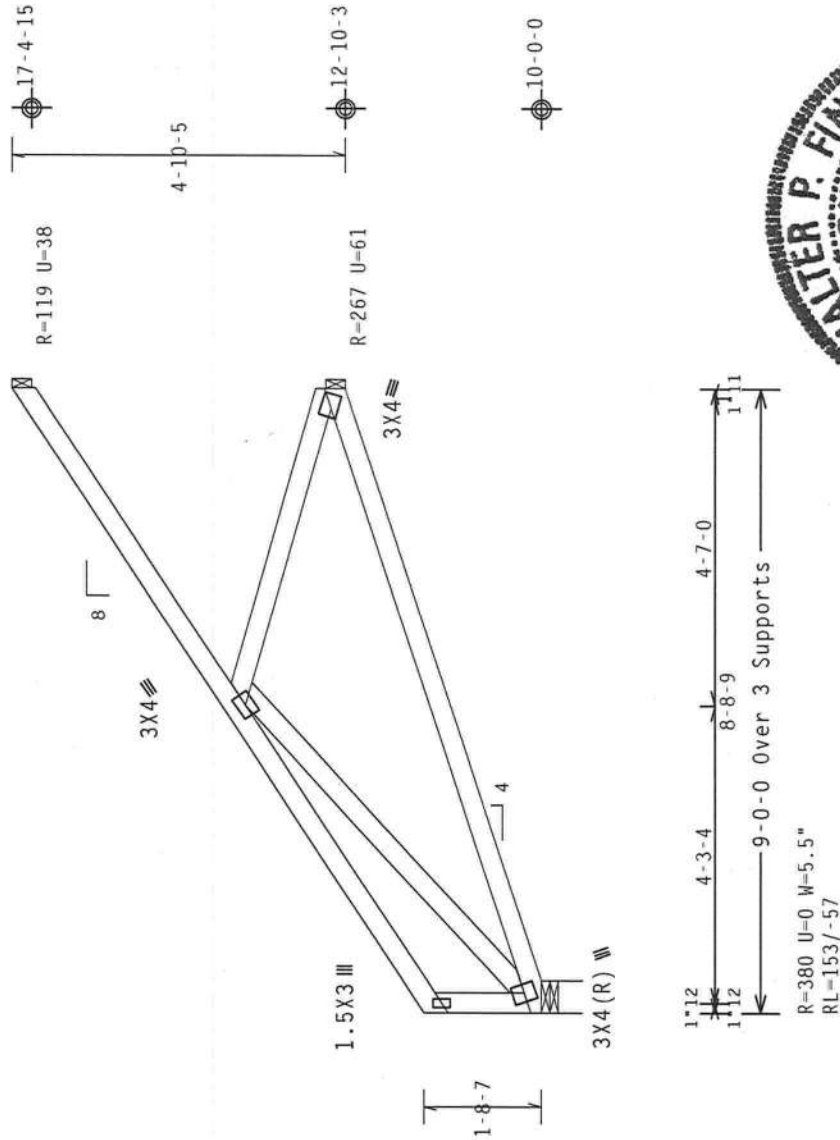
MMFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. W=1.00 GCp1(+/-)=0.18

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

Shim all supports to solid bearing.

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.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD

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

Scale = .375"/Ft.

TC LL	20.0 PSF	FL/-/4/-/-/R/-	REF R487--	61470
TC DL	10.0 PSF		DATE	11/28/11
BC DL	10.0 PSF		DRW HCUSR487	11332082
BC LL	0.0 PSF		HC-ENG DF/DF	*
TOT.LD.	40.0 PSF		SEQN-	245871
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1UHF487_Z03



****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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, Top Chord shall have properly attached structural sheathing and bolts. Trusses shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
IPI Building Components Group Inc. (IPI/BCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on the bottom chord of the truss shall be provided. The seal shall be provided by the manufacturer. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's general notes page: IPI-BCG: www.ipecg.com; TPI: www.tpinet.org; NICA: www.sbcindustry.com; ICC: www.iccsafe.org



(11-209--fill) in later BOB JORDAN -- , ** - JV55)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

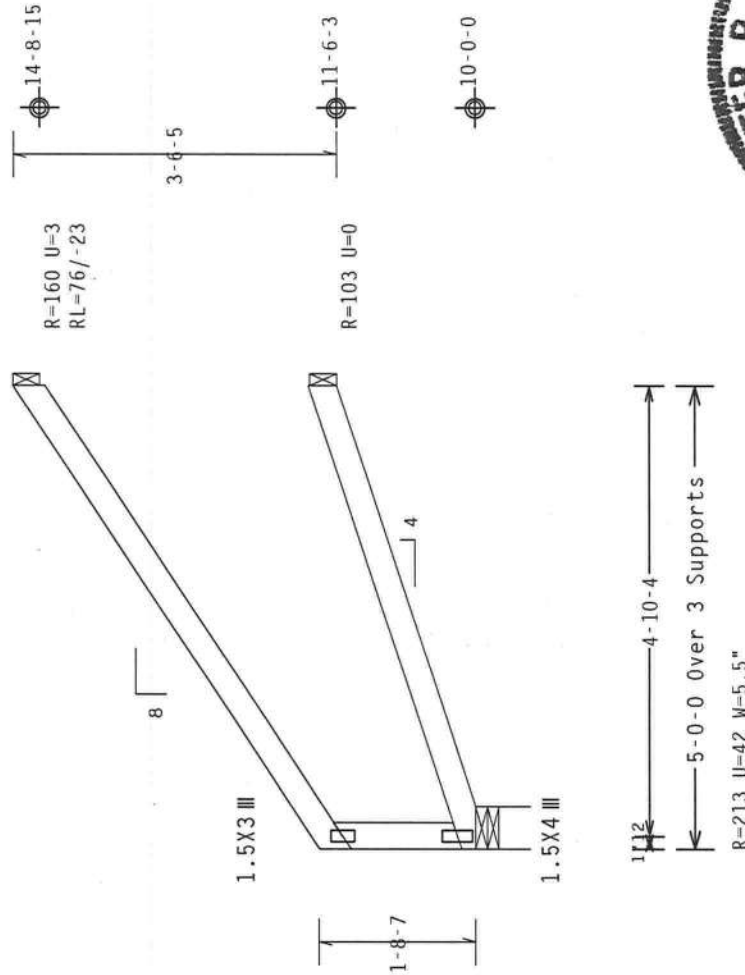
Deflection meets L/240 live and L/180 total load.

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.

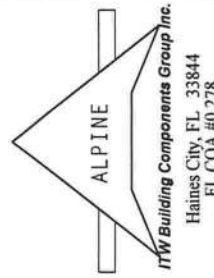
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 gcpi (+/-)=0.18

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

Shim all supports to solid bearing.



PLT TYP. Wave



Design Crit: FBC2007Res/TPI-2002 (STE

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

WARNING READ AND FURNISH ALL NOTES ON THIS SHEET!

FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses shall be installed in accordance with the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing for BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint 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 any failure to build the truss in conformance with ANSI/TPI 1.1 for handling, shipping, installation, or erection. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal, drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.eccsa.org



Scale = .5" / Ft.

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

QT 1

10-03 04-0601 16
No. 22839

11/28/2011

REF

R487--

61472

DATE

11/28/11

DRW

HCUSR487 11332059

HC-ENG DF/DF

SEQN-

245881

DUR.FAC.

1.25

SPACING

24.0"

JREF-

1UHF487_Z03

(11-209--Fill in later B08 JORDAN -- , ** - JV7S)

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

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

Deflection meets L/240 live and L/180 total load.

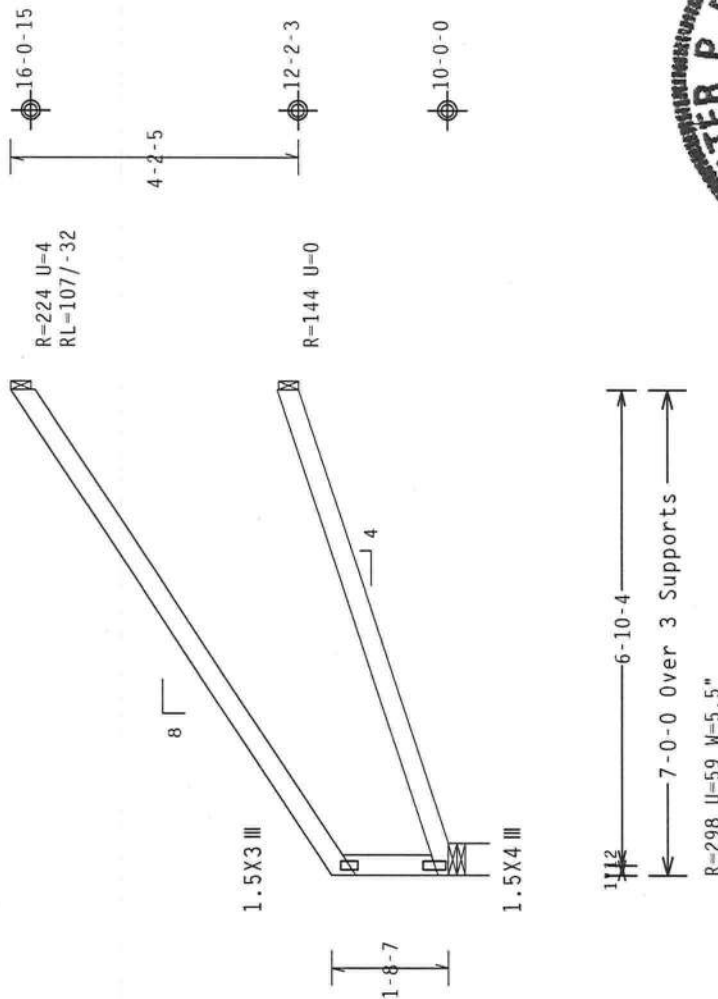
MMFRS loads based on trusses located at least 7.50 ft. from roof edge.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. Iw=1.00 GCp(+/-)=0.18

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

Shim all supports to solid bearing.

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.



Design Crit: FBC2007Res/TPI-2002 (STD FT/RT=10%(0%)/0(0))

PLT TYP. Wave

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487--	61473
TC DL	10.0 PSF	DATE	11/28/11	
BC DL	10.0 PSF	DRW	HCUSR487	11332105
BC LL	0.0 PSF	HC-ENG	DF/DF	*
TOT.LD.	40.0 PSF	SEQN-	245884	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UHF487_Z03	



****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. Follow the latest edition of BCSI Building Component Safety Information, by TPI and NICA, 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 bracing installed per BCSI sections B3, B7 or B10, as applicable.
IIM Building Components Group Inc. (IIMBCG) shall not be responsible for any deviation from the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. IIMBCG shall not be responsible for any deviation from the design shown on this drawing. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: IIM-BCG: www.iimbog.com; TPI: www.tpinat.org; NICA: www.sbcindustry.com; ECC: www.eccsafe.org

ALPINE

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

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

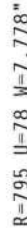
1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

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

Sub-fascia beam assumptions: 5-0-0 sub-fascia beam on the 2-0-0 cantilever side, 5-0-0 sub-fascia beam on the 2-0-0 cantilever side.

Deflection meets L/240 live and L/180 total load.

Shim all supports to solid bearing.

Design Crit: FBC2007Res/TPI-2002 (STD
 $FT/RT=10\%(0\%)/0(0)$

10:03:04.0601000

Scale = .375"/Ft.

TC LL	20.0	PSF	REF R487--	61474
TC DL	10.0	PSF	DATE	11/28/11
BC DL	10.0	PSF	DRW	HCUSR487 11332052
BC LL	0.0	PSF	HC-ENG	DF/DF
TOT.LD.	40.0	PSF	SEQN-	245895
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1UHF487_Z03

11/28/2011

****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. Trusses are the latest edition of BCSI Building Components Safety Information, by IPI and NICA for professional engineering use only. Trusses are not to be used for any other purpose. Trusses are not to be used for any other purpose. Trusses are not to be used for any other purpose.

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 restraints shall have a properly installed per BCSI sections B3, B7 or B10, as applicable.

IPI Building Components Group Inc. (IHBCSI) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/IPI 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 details, unless noted otherwise. Refer to drawing 160A-2 for standard plate positions. A truss drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility on the part of the engineer. The engineer is responsible for the design and the responsibility of the building designer. For more information, contact IPI. See the following general notes: IPI-BCSI: www.tbcbp.com; IPI: www.tpinet.org; NICA: www.bcsiindustry.com; IHB: www.tbcsafe.org



ALPINE

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

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

Left and right cantilevers are exposed to wind

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

Deflection meets L/240 live and L/180 total load.

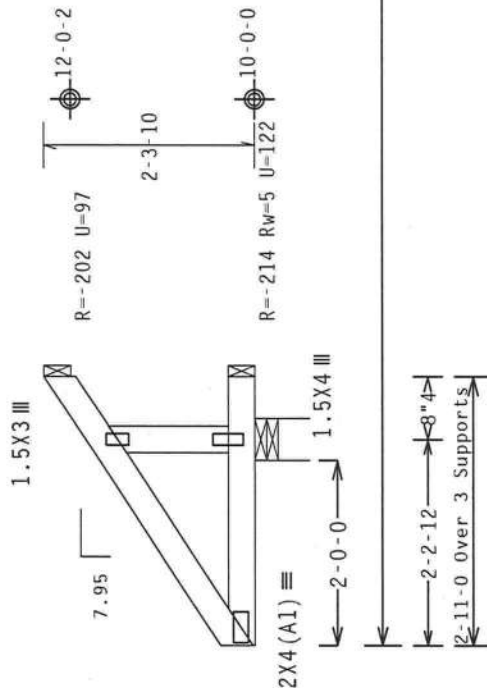
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

Negative reaction(s) of -214# MAX. (See below) from a non-wind load case requires uplift connection.

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCpf(+/-)=0.18

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

Stacked top chord must NOT be notched or cut in area (MNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (5c) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



R=661 U=0 W=5.5"
RL=43

20-11-0
20-11-0

2-0-0 (NNL)
2-0-0

PLT TYP: Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

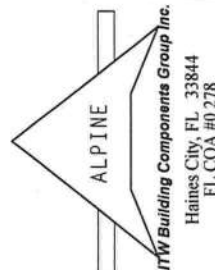
10.03.2006 2839

FL/-/4/-/-/R/- Scale = .5"/Ft.

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS, ENGINEERS, INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following for the latest edition of BCSI Building Component Safety Information, by IPI and WCA (non-proprietary) and BCSI (proprietary). This information is available for purchase from BCSI (800-551-5551).

Trusses shall have a properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Connections shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

[illegible]

the responsibility of the building designer per ANSI/HP 1 Sec.2. For more information see: www.sbcindustry.com; general notes page: www.tbdcg.com; [TP1: www.tpinst.org](http://www.tpinst.org); [NCCA: www.ncca.com](http://www.ncca.com); [TCC: www.tccsafe.org](http://www.tccsafe.org)

11/28/2011

SPACING 24.0"

JREF- 1UHF487_Z03

(11-209--Fill in later BOB JORDAN -- , ** - J7)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left and right cantilevers are exposed to wind

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

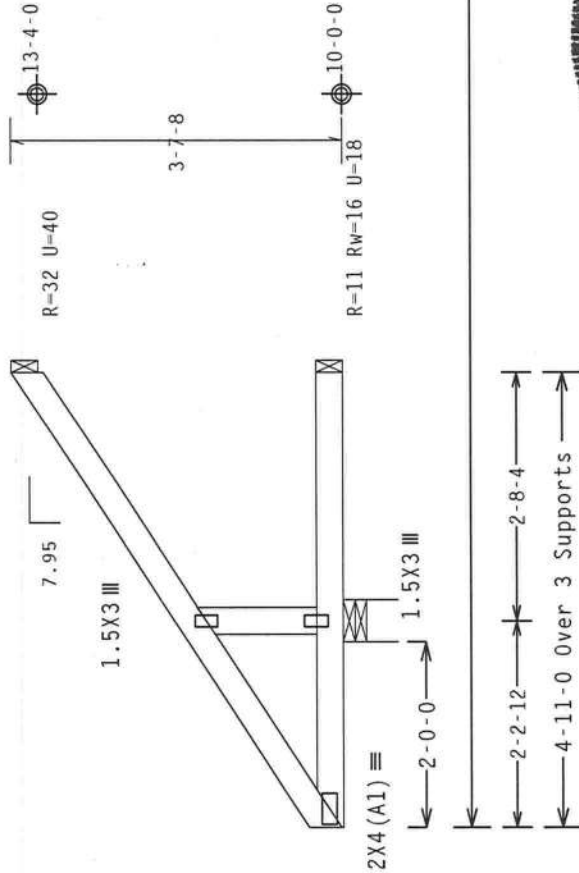
Deflection meets L/240 live and L/180 total load.

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GcP1(+/-)=0.18

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

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



2-0-0 (NML)
2-0-0

20-11-0
20-11-0

R=399 U=0 W=5.5"
RL=74/-22

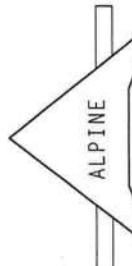
Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

10-03-04-0601-16
No. 22839

QTY 2 FL/-/4/-/1-/R/-

Scale =.5"/Ft.

 ALPINE 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. Follow the latest edition of BCSI (Building Component Safety Information, by IPI and WICA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have proper bracing attached to the truss. The truss shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. IPI Building Components Group Inc. (IPI/BCG) shall not be responsible for any deviation from the design shown. The truss shall be braced with ANSI/TPI 1 for handling, shipping, installation and bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on 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. IPI/BCG: www.iptbdcg.com; TPI: www.tpiinst.org; WICA: www.wicaindustry.com; ICC: www.iccsafe.org			
	REF	R487--	61476	
	DATE	11/28/11		
	DRW	HCUSR487	11332057	
	HC-ENG	DF/DF		
	SEQN	245985		
	TC LL	20.0	PSF	
	TC DL	10.0	PSF	
	BC DL	10.0	PSF	
	BC LL	0.0	PSF	
	TOT.LD.	40.0	PSF	
	DUR.FAC.	1.25		
	SPACING	24.0"		
	JREF	1UHF487_Z03		

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

Negative reaction(s) of -241# MAX. (See below) from a non-wind load case requires uplift connection.

111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpt (+/-)=0.18

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

The following members need concentrated loads at the heel: 5-0-0
span/setback member on the 2-0-0 cant side requires 46 lbs and the 5-0-0
span/setback member on the 2-0-0 cant side requires 46 lbs.

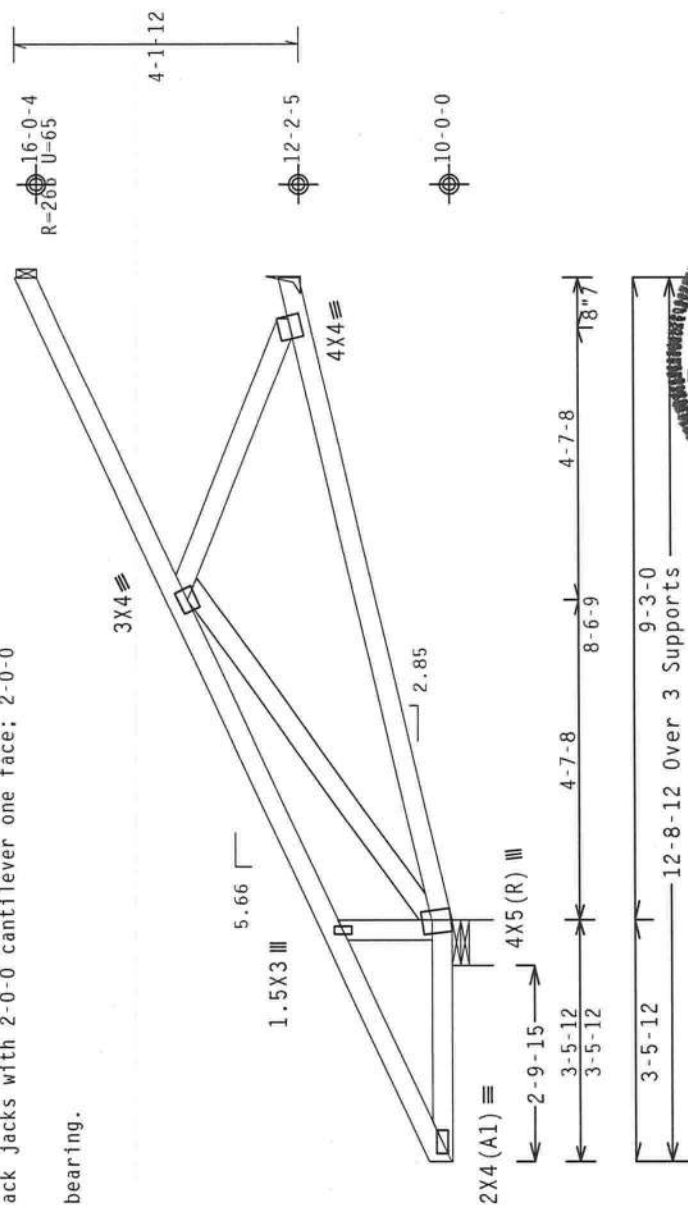
HiJack supports 9-0-0 setback jacks with 2-0-0 cantilever one face; 2-0-0 cantilever opposite face.

Shim all supports to solid bearing.

Left cantilever is exposed to wind

Sub-fascia beam assumptions: 5-0-0 sub-fascia beam on the 2-0-0 cantilever side. 5-0-0 sub-fascia beam on the 2-0-0 cantilever side.

Deflection meets L/240 live and L/180 total load.



R=583/-242 U=402 W=7.778"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

10:03. No. 28219

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

Scale = .375"/Ft.

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

[illegible]

ITW Building Components Group Inc. (IWBG) shall be responsible for any deviation from the design shown on this drawing. IWBG shall be responsible for the design, engineering, manufacturing, purchasing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Detail. Welding shall be done in accordance with AWS D1.1 for standard plate positions. A seal on the truss web shall be used to prevent moisture from entering the truss. Refer to drawings 160A-2 for standard plate positions. On the seal on the truss web, the following information shall be provided: Manufacturer's name, design, and responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. per AWS D1.1 Sec.2. more information see: This job's specifications and drawings. IWBG: www.iwbgroup.com AWS: www.aws.org NICA: www.nicainstitute.org

ALPINE

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

Haines City, FL 33844
FL COA #0278

11/28/2011

UR.FAC. 1.

DUCTING 24 0"

DUCTING 24 0"

DATE	24 0"
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INDICATING	24 0"	1000
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TRACTING	24 0"	1000- 11
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PACKING	24 0"	TRFEE - 111HE
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PACKING	24 0"	10EE- 11HE487
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PACKING	24 0"	TRFEE - 111HE487 703
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PACKING	24 0"
TRFEE- 111HE487 703	

(11-209--Fill in later BOB JORDAN -- , ** - H3K)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located
within 4.50 ft from roof edge, CAI II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf. Iw=1.00 GCpl(+/-)=0.18

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

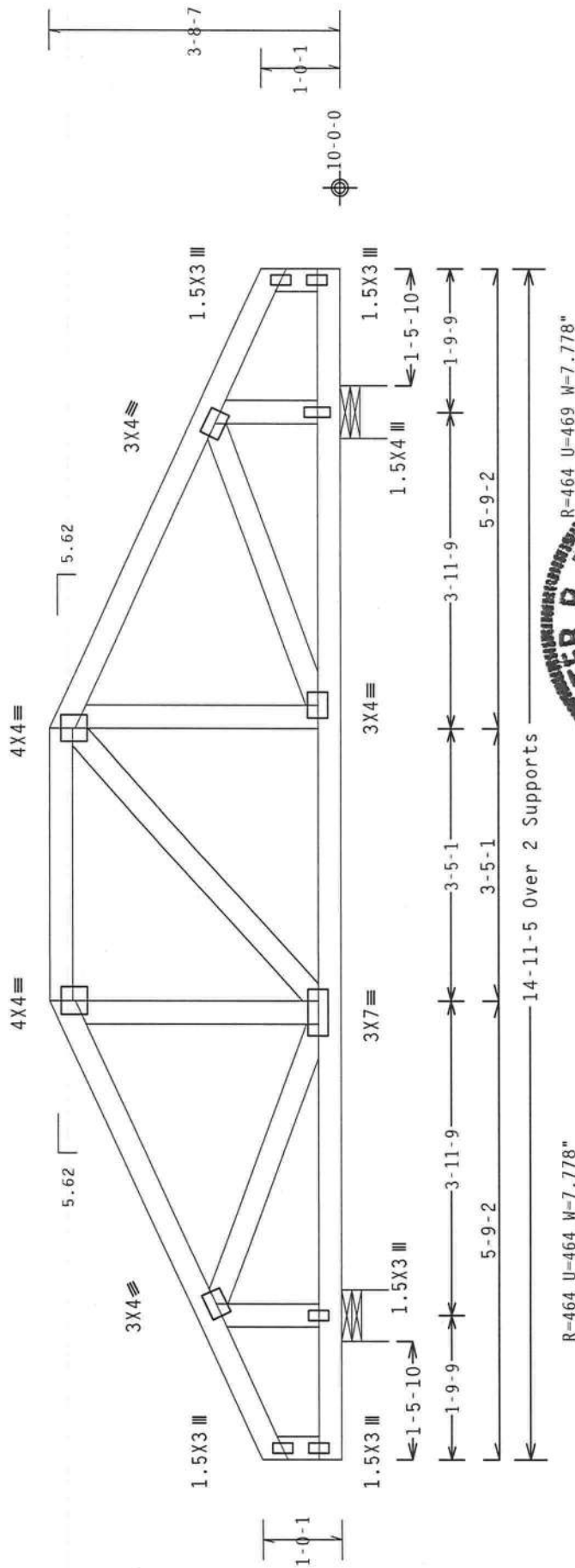
Left and right cantilevers are exposed to wind

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

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

Deflection meets L/240 live and L/180 total load.

Special loads
----- (Lumber
TC- From 62 plf at 0.00 to 62 plf at 2.81
TC- From 31 plf at 2.81 to 31 plf at 5.76
TC- From 31 plf at 5.76 to 31 plf at 9.18
TC- From 31 plf at 9.18 to 31 plf at 12.13
TC- From 62 plf at 12.13 to 62 plf at 14.94
BC- From 10 plf at 0.00 to 20 plf at 2.81
BC- From 20 plf at 2.81 to 20 plf at 12.13
BC- From 20 plf at 12.13 to 20 plf at 14.94
TC- 143.38 lb Conc. Load at 2.81, 12.13
TC- 107.24 lb Conc. Load at 5.71, 9.27
TC- 35.69 lb Conc. Load at 7.82
BC- 173.30 lb Conc. Load at 2.81, 12.13
BC- 41.90 lb Conc. Load at 5.71, 9.28
BC- 13.82 lb Conc. Load at 7.82



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STU)
FT/RT=10% (0%)/0 (0)

Scale = .5" / Ft.

ALPINE iTW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**IMPORTANT** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		No. 22839		11/28/2011	
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by IPI and NICA) practices prior to performing these functions. Installers shall provide temporary bracing for BCSI listed components. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.		STATE OF FLORIDA PROFESSIONAL ENGINEER		11/28/2011	
	iTW Building Components Group Inc. (iTWBCG) shall not be responsible for any deviation from 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 details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NICA: www.nicaindustrial.com; ICC: www.iccsafe.org					
	REF R487-- 61479		DATE 11/28/11		JREF- 1UHF487_Z03	
	DRW HCUR487 1132098		HC-ENG DF/DF		SEQN- 245993	
	DUR.FAC. 1.25		SPACING 24.0"			
TC LL 20.0 PSF		TC DL 10.0 PSF		BC DL 10.0 PSF		
BC LL 0.0 PSF		TOT.LD. 40.0 PSF				

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 3 Rows @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

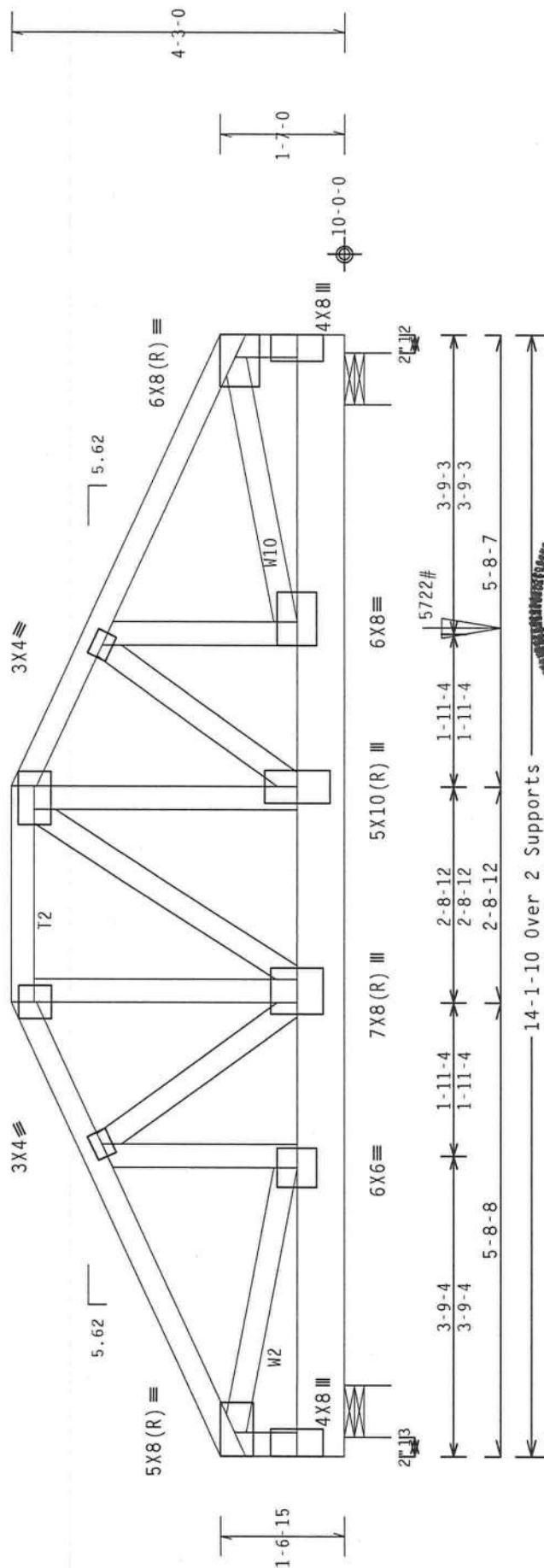
1110 mph wind. 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 13.00 ft from roof edge. CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.18

Left and right cantilevers are exposed to wind

Deflection meets L/240 live and L/180 total load.

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.



R=10107 II=231 W=7 778"

R=8693 I=607 W=7 778"

PLOT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(Std)
 $FT/RT=10\%(0\%)/0(0)$

10.03.2028

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

Scale = .5"/Ft.

***=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. Review and follow the latest edition of BCSI (Building Component Safety Information), by IPI and WICA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses must be installed as 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 bracing are shown for reference only. See drawings for details.

LTD Building Components group Inc. (LBCDC) shall not be responsible for any deviation from this drawing. The designer and contractor shall ensure that all dimensions, tolerances, materials, details, trades, etc., are in accordance with applicable codes and standards. All plates, tees, angles, bolts, welds, etc., shall be specified by the designer. Apply plates to webs of beams and position as shown. Positioning on the plate shall be as indicated. Welds shall be made in accordance with AWS D1.1. See also the project manual for details, unless noted otherwise. Refer to drawings LBCD-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/JPI 1 sec.2. For more information see: General notes page: IIN-B005; www.lubeey.com; IPI: www.iapi.org; MICA: www.saciindustries.com;

ALPINE

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

Haines City, FL 33844
FL CQA #0278

11/28/2011

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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REF- 1UHF487 703

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Special loads

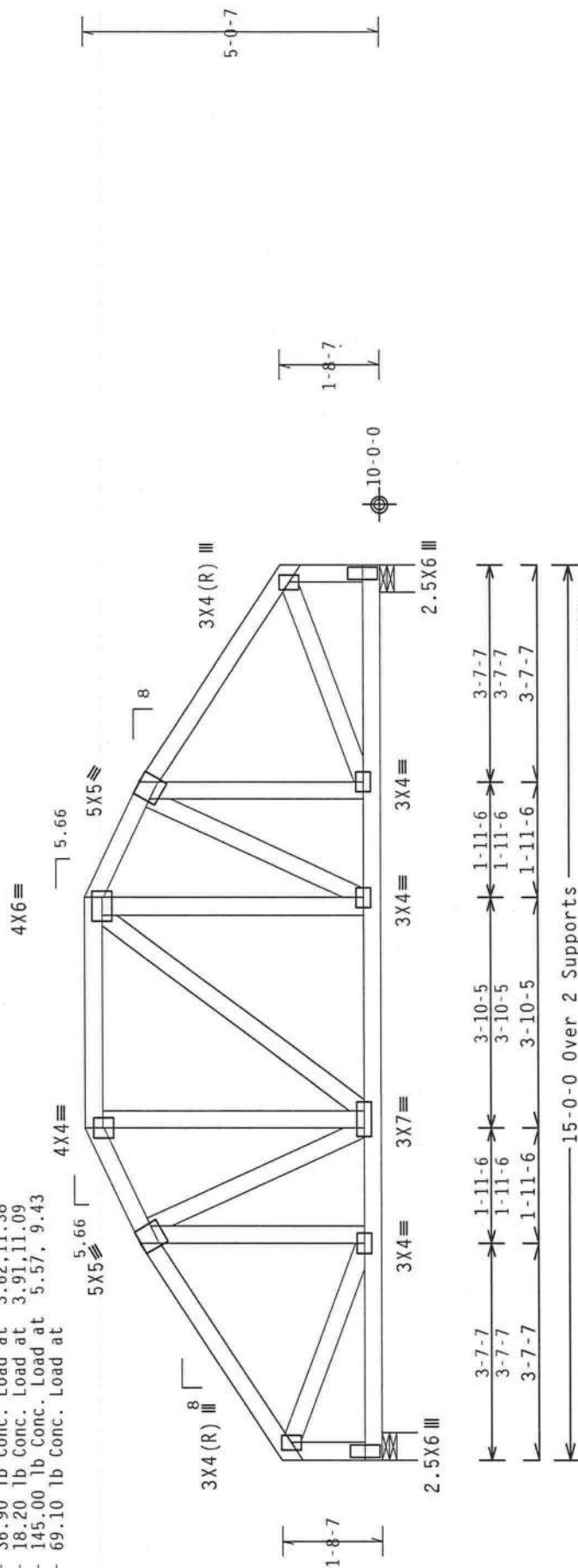
Spectrum	(Number)	Dur.	Fac.-1.25 /	Plate	Dur.	Fac.-1.25)
TC-	64 pif at 0.00	to	64 pif at 3.62			
TC-	From 62 pif at 3.62	to	62 pif at 5.57			
TC-	From 62 pif at 5.57	to	62 pif at 9.43			
TC-	From 62 pif at 9.43	to	62 pif at 11.38			
TC-	From 64 pif at 11.38	to	64 pif at 15.00			
BC-	From 20 pif at 0.00	to	20 pif at 15.00			
TC-	67-60 lb Conc.	Load at	3.62, 11.38			
TC-	68-70 lb Conc.	Load at	3.91, 11.09			
TC-	245-20 lb Conc.	Load at	5.57			
TC-	113-60 lb Conc.	Load at	7.51, 9.43			
TC-	131-60 lb Conc.	Load at	9.20			
BC-	36-20 lb Conc.	Load at	3.62, 11.38			
BC-	18-20 lb Conc.	Load at	3.91, 11.09			
BC-	145-00 lb Conc.	Load at	5.57, 9.43			
BC-	69-10 lb Conc.	Load at				
7-51						

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.

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

Deflection meets L/240 live and L/180 total load.



R=1298 U=139 W=5.5"
RL=71/-71

 $W=5.5''$

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD
FT/RT=10%(0%)/0(0)

Scale = .375" / Ft.

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

10.03.04.0601.16

3C200/Res/IP
FT/RT=10%(0'

Design Crit:

PIT TYP Wave

-WARNING- READ AND FOLLOW ALL NOTES ON THIS SHEET
 PUBLISHED SALE DESIGN TO A CONTRACTOR'S EMPLOYING INSTRUCTORS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. See the following for the latest edition of BCSP (Building Component Safety Information, by IP1 and IPIA) and the following practices prior to performing these functions. Installers shall provide temporary bracing per BCSP's recommendations 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 BCSP sections 83, 87/810, as applicable.

ITW Building Components Group Inc. (IIBCGO) shall not be responsible for any deviation from the design shown on drawings or specifications, or any failure to build the truss in conformance with ANSI/IPI 1, or for handling, shipping, installation, erection, or bracing of trusses. Apply plates to each face of truss and position as shown and on the details indicated. Refer to drawings I60A-2 for standard plate positions. A seal of approval is required on all details, unless noted otherwise. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure are the responsibility of the building designer per ANSI/IPI 1 Sec.2. For more information see: This Job's general notes page; IIBCGO: www.iibcgo.com; IPI: www.ipiinst.org; NICA: www.nicainstall.com.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

11/28/2011

Information see: thisjob's.sbcindustry.com

...tpinst.org: WICA: www.

Building Designer per
CG: www.ftwbcg.com; IPI

33844 the responsibility
general notes

Haines City, FL 3

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	webs	2x4	SP	#3		

1110 mph wind, 20.70 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf, IW=1.00 GCpf (+/-)=-0.18

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

MWFRS loads based on trusses located at least 10.35 ft. from roof edge.

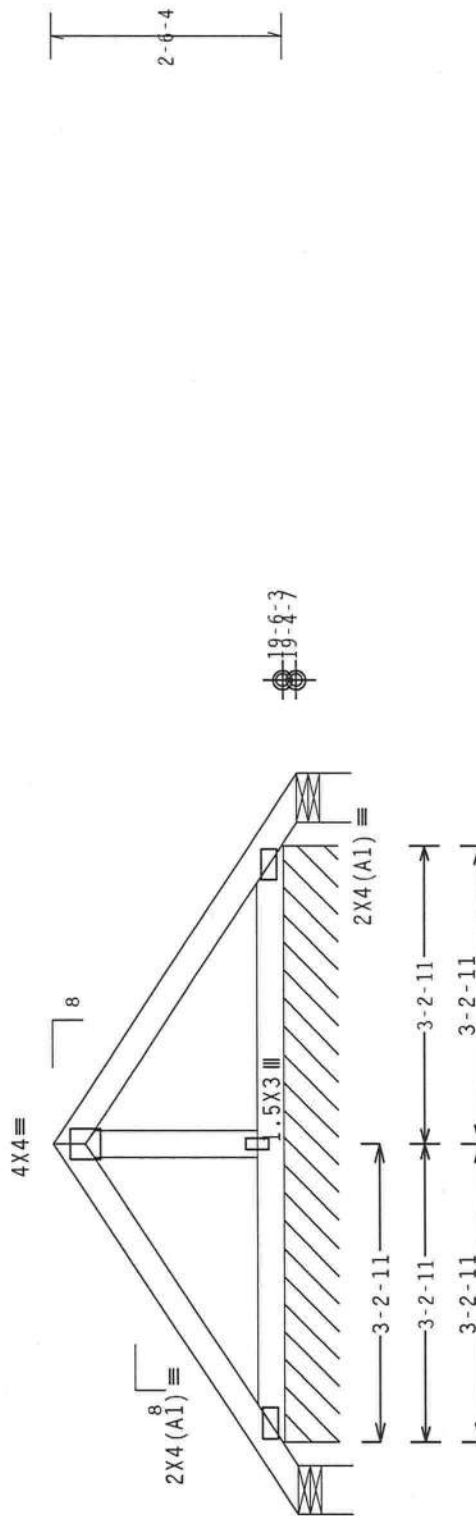
Refer to DWG PB1200310 for piggyback details.

Special loads

----- (Lumber	Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From	64 plf at 0.00 to 64 plf at 4.00
TC- From	64 plf at 4.00 to 64 plf at 8.00
BC- From	4 plf at 0.00 to 4 plf at 8.00

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

Deflection meets L/240 live and L/180 total load.



8-0-0 Over 3 Supports

R=-.22 RW=49 II=53 W=6.31"

K=22 KW=49 U=33 W=0.31
R1=59/R5=86 PLF U=20 PLF W=6-5-6

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD
FT/RT=10%(0%)/0(0)

=WARNING= READ AND FOLLOW ALL NOTES ON THIS SHEET!
KNOWING 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. Follow the latest edition of BCSP (Building Component Safety) information, by IP1 and NICA for safety practices prior to performing these functions. Installer shall provide temporary bracing for all trusses, notched chorded members, and all other members. Connections shall be made in accordance with the design and specifications for permanent lateral restraint and bracing. Trusses shall be braced against racking and twisting. Locations shown for permanent lateral restraint and bracing installed per BCSP sections B33, B7 and B10, as applicable.

TW Building Components Group, Inc. (TWBCG) shall be responsible for any deviation from the design shown on drawings or specifications for materials, fabrication, handling, shipping, installation, erection, and maintenance 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 the drawing or cover plate 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/APA 11 Sacc-2, or more information see: This Job's Specification. TWBCG: www.twbgroup.com; info@twbgroup.com; www.twbgroup.com.

Scale = .5"/Ft.

FL1-141-1-1R/-

10:03 AM 09/10/20

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

Design Crit

REF R487-- 61483

DATE 11/28/11

DRW HCUSR487 11332004

UIC ENC DE/DE

HC-ENG DF/DF

SEQN- 245288

10EE-1114E497 702

JREF - JUH 48 / _Z03

(11-209--Fill in later BOB JORDAN -- , ** - H158P)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 20.04 ft mean hgt., ASCE 7-05, CLOSED bldg, Located anywhere
in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. lw=1.00
GCpl(+/-)=0.18

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

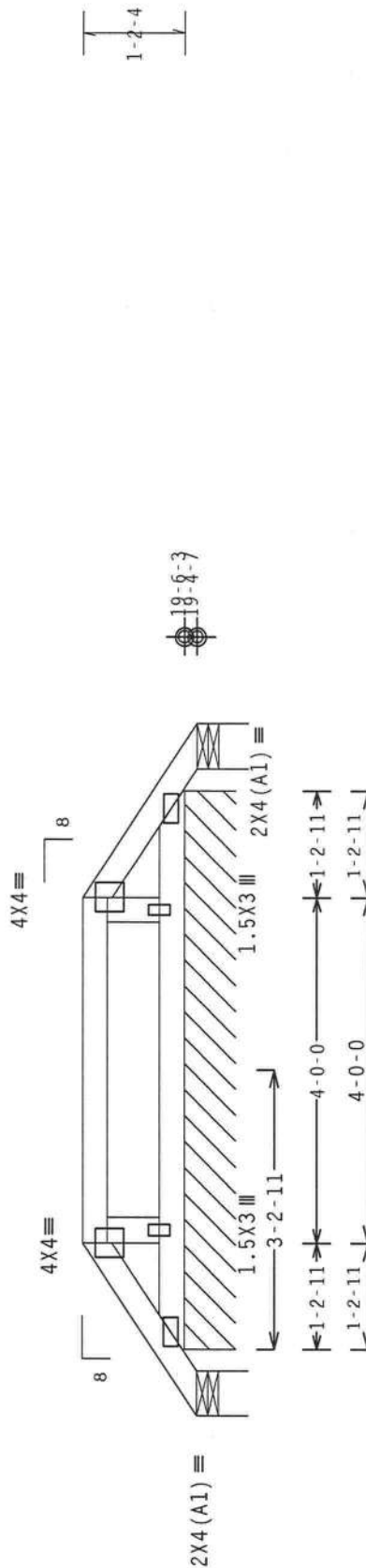
Deflection meets L/240 live and L/180 total load.

Refer to DWG PB1200310 for piggyback details.

Special loads
---(Lumber
TC- From Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
64 plf at 0.00 to 64 plf at 2.00
TC- From 64 plf at 2.00 to 64 plf at 6.00
TC- From 64 plf at 6.00 to 64 plf at 8.00
BC- From 4 plf at 0.00 to 4 plf at 8.00

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

MWFRS loads based on trusses located at least 10.02 ft. from roof
edge.



R-24 U=13 W=6.31"

RL=28/R281 PLF U=15 PLF W=6-5-6

8'-0-0 Over 3 Supports

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

10/03

10/03

10/03

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

Scale =.5"/Ft.

TC LL	20.0 PSF	REF	R487-- 61484
TC DL	10.0 PSF	DATE	11/28/11
BC DL	10.0 PSF	DRW	HCUSR487 11332075
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	245294
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UHF487_Z03

WALTER P. FINN
LICENSE
No. 28339
11/28/2011
STATE OF FLORIDA
PROFESSIONAL ENGINEER

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL COMPACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The installer must follow the latest edition of BCSI (Building Component Safety Information, BCSI and BCSI) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint 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 for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing or trusses. Apply plates to each face of truss and position as shown above and on the joints, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the bottom chord of the truss shall be used to indicate the location of the seal. The seal shall be the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's general notes page: ITN-BG: www.itnbg.com; TPI: www.tpinet.org; NICA: www.nicaindustry.com; ICC: www.icc-afe.org

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

(11-209--Fill in later BOB JORDAN -- , ** - GP)

Top chord 2x4 SP #2 Dense :T2 2x4 SP #1:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 22.04 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere
in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. IW=1.00
GCpf(+/-)=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.

Refer to DWG PB1200310 for piggyback details.

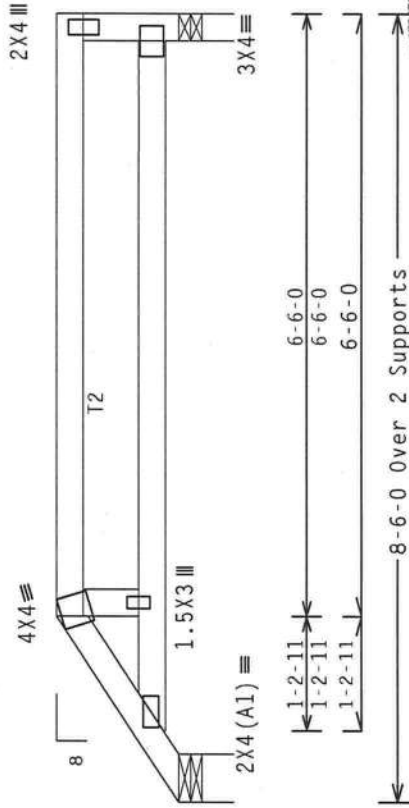
Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 64 plf at 0.00 to 64 plf at 2.00
TC- From 64 plf at 2.00 to 64 plf at 8.50
BC- From 4 plf at 0.00 to 4 plf at 8.50

Left cantilever is exposed to wind

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

MWFRS loads based on trusses located at least 22.04 ft. from roof
edge.



R-284 U=73 W=6.31"
RL=27

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

Scale = .5" / Ft.

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

10-03-04-0601-16
No. 22839

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing.
Follow the latest edition of BCSI (Building Component Safety Information, by IPI and WICA)
practices prior to performing these functions. Installers shall provide temporary bracing
and bracing details as shown on drawings. Trusses shall be installed and braced in
accordance with the attached rigid ceiling sections shown for permanent lateral restraint.
Trusses shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

IPI Building Components Group Inc. (IPI/BCG) shall not be responsible for any deviation from
any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, insta-
bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job
Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on
drawing or cover page listing this drawing. Indicates acceptance of professional engineering
responsibility solely for the design shown. The suitability and use of this design for any structure
is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see:
General notes page 11H-BCG: www.11hbcg.com; TPI: www.tpinet.org; NICK: www.sbcindustry.com;
ICC: www.iccsafe.org

ALPINE

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



TC LL	20.0 PSF	REF	R487--	61485
TC DL	10.0 PSF	DATE	11/28/11	
BC DL	10.0 PSF	DRW	HCUSR487	11332087
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	40.0 PSF	SEQN-	245620	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UHF487_Z03	

(11-209--Fill in later BOB JORDAN -- , ** - BP3)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 22.32 ft mean ht, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf, Iw=1.00 GCpl (+/-)=0.18

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

Left end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load.

Refer to DWG PB1200310 for piggyback details.

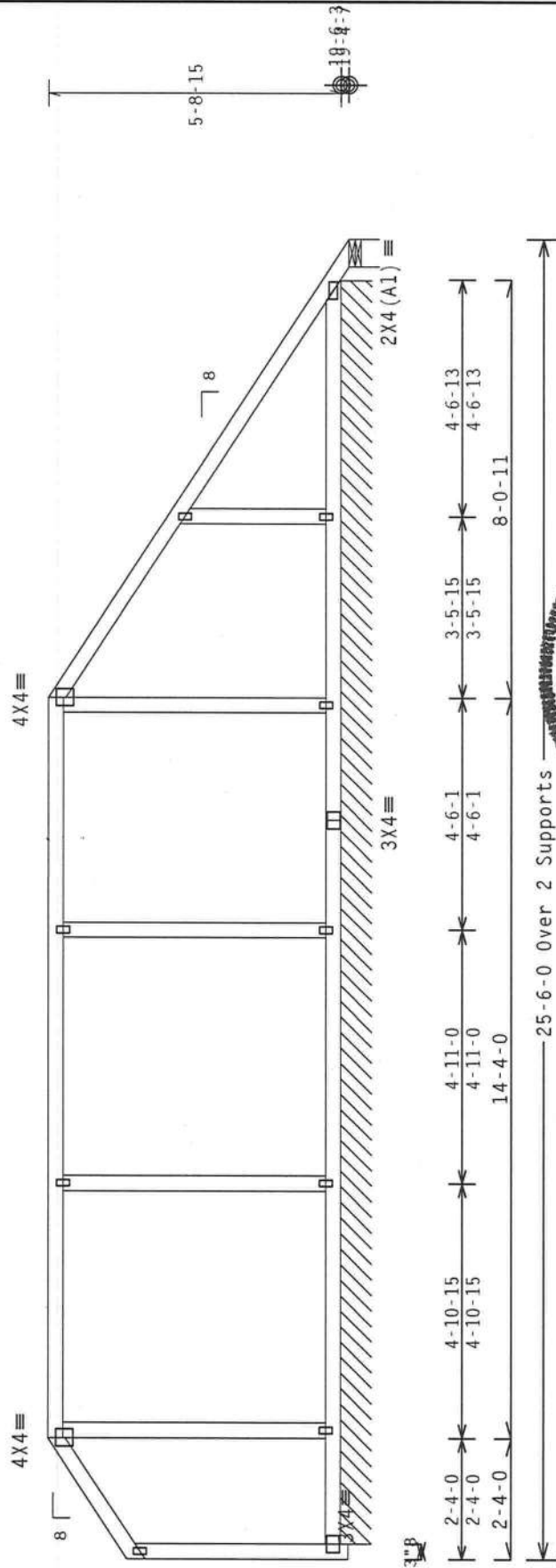
Special loads

----- (Lumber
TC- From 64 plf at 0.00 to 64 plf at 2.33
TC- From 64 plf at 2.33 to 64 plf at 16.67
TC- From 64 plf at 16.67 to 64 plf at 25.50
BC- From 4 plf at 0.00 to 4 plf at 25.50

Left and right cantilevers are exposed to wind

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

MWFRS loads based on trusses located at least 44.63 ft. from roof edge.



R-75 PLF U=17 PLF W=24-5-0

RL=4/-6 PLF

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD

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

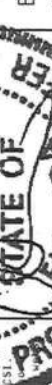
10/03

No. 22839

TY:

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

Scale = .3125"/Ft.

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.				REF R487-- 61488
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.				DATE 11/28/11
	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, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's general notes page: ITN-BCG: www.itnbcg.com; TPI: www.tpinet.org; WICA: www.socindustry.com; ICC: www.iccsafe.org				DRW HCUSR487 11332039
					HC-ENG DF/DF
					SEQN- 245715
				TOT.LD. 40.0 PSF	
				DUR.FAC. 1.25	
				JREF- 1UHF487_Z03	
				SPACING 24.0"	

(11-209--Fill) in later 808 JORDAN -- , ** - BP4)

Top chord 2x4 SP #2 Dense :T1 2x4 SP #1:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Negative reaction(s) of -224# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 22.98 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. 1W=1.00 GCpl(+/-)-0.18

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

Left end vertical not exposed to wind pressure.

Refer to DWG PB1200310 for piggyback details.

Special loads

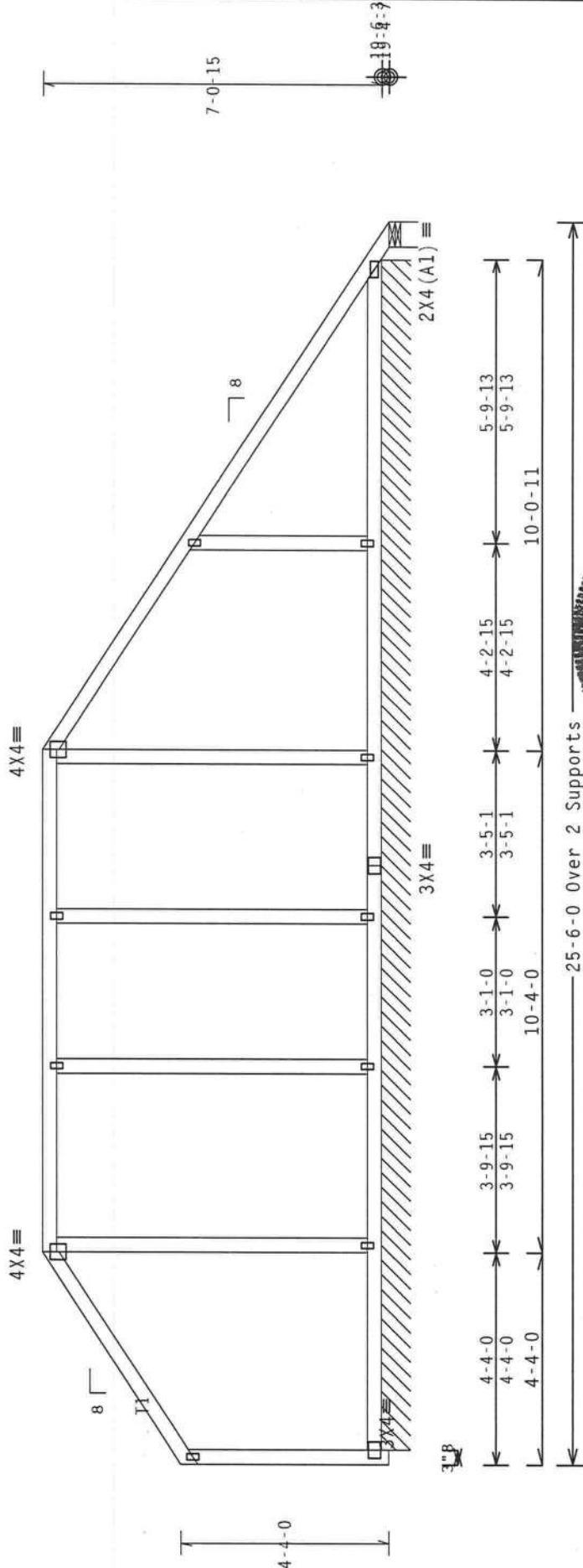
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 64 plf at 0.00 to 64 plf at 4.33
TC- From 64 plf at 4.33 to 64 plf at 14.67
TC- From 64 plf at 14.67 to 64 plf at 25.50
BC- From 4 plf at 0.00 to 4 plf at 25.50

Left and right cantilevers are exposed to wind

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.

MWFRS loads based on trusses located at least 45.96 ft. from roof edge.



R=80 PLF U=16 PLF W=24-5-0
RL=5/-7 PLF

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

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

Scale = .3125"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 Tel COA #0 278 **WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL COMPANIES 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 NICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. Trusses, unless noted otherwise, shall be designed for a minimum of 10 years service life. 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; NICA: www.sbcindustry.com; ICC: www.iccsafe.org	**IMPORTANT** 10/03. No. 0928350 WALTER P. FINN LICENSE STATE OF FLORIDA PROFESSIONAL ENGINEER 11/28/2011	TC LL	20.0 PSF	REF	R487--	61489
	TC DL	10.0 PSF	DATE	11/28/11		
	BC DL	10.0 PSF	DRW	HCUSR487	11332085	
	BC LL	0.0 PSF	HC-ENG	DF/DF		
	TOT.LD.	40.0 PSF	SEQN-	245733		
			DUR.FAC.	1.25		
			SPACING	24.0"	JREF-	1UHF487_Z03

	Top	chord	2x4	SP	#2	Dense	:T2	2x4	SP	#1:
	Bot	chord	2x4	SP	#2	Dense				
		webs	2x4	SP	#3					

1110 mph wind, 22.45 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind IC DL=5.0 psf, wind BC DL=2.0 psf. 1w=1.00 GCpt1(+/-)-0.18

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

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

Refer to DWG PB1200310 for piggyback details.

Special loads

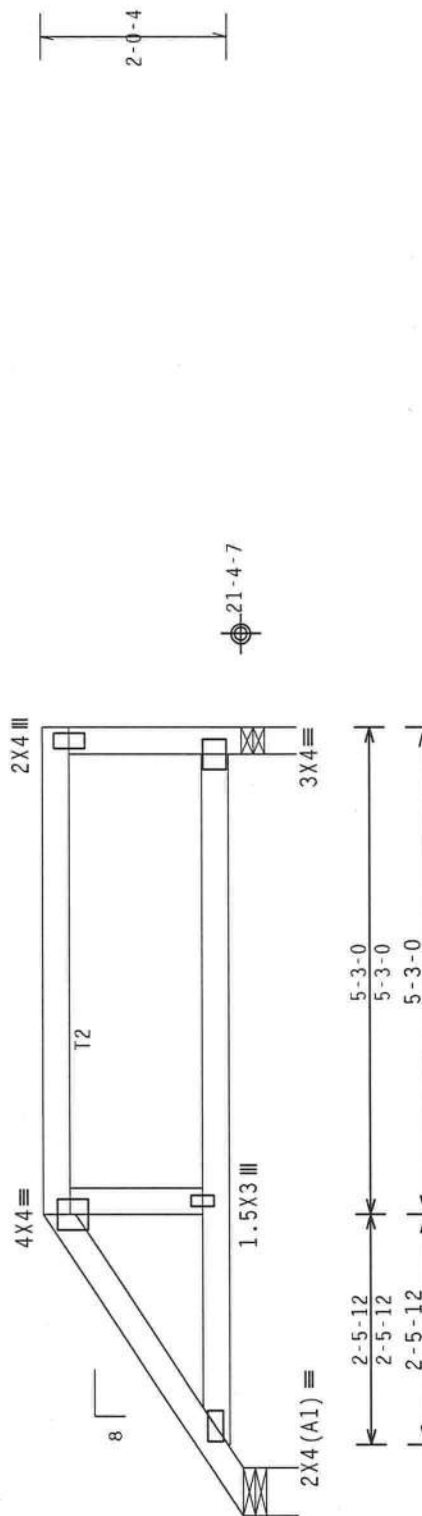
Special loads	Dur.Fac.=1.25 /	Plate Dur.Fac.=1.25
----- (Lumber		
TC- From	64 plf at 0.00 to	64 plf at 3.25
TC- From	64 plf at 3.25 to	64 plf at 8.50
BC- From	4 plf at 0.00 to	4 plf at 8.50

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Deflection meets L/240 live and L/180 total load.

MMFRS loads based on trusses located at least 22.45 ft. from roof edge.



8-6-0 Over 2 Supports

R=284 I=55 W=6 31"

RL=47/-26

Design Crit: FBC2007Res/TPI-2002(Std)
 $FT/RT=10\%(0\%)/0(0)$

PLT TYP. Wave

10:03.14.0601030

Scale = .5"/Ft.

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

IMPORTANT: FORNISH THIS DESIGN TO ALL COMPANIES 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 IPI and NICA) for safety precautions. Installers shall provide temporary bracing to support the trusses until the roof decking is installed. Trusses shall be properly attached to walls and bottom chords. Trusses shall be braced in accordance with the following:

- Trusses shall be braced properly attached rigid ceiling.
- Locations shown for permanent lateral restraining bracing installed per BCSP sections B3, B7 or B10, as applicable.

THE Building Components Group, Inc. (TBCG) shall be responsible for any deviation from the manufacturer's specifications and instructions for use, including, but not limited to, the following: packaging of trusses, application of plates to each face of truss and position as shown and on the manufacturer's drawings, and installation of fasteners and details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.2. TBCG does not warrant that this job's compliance with the TBCG design is sufficient to ensure compliance with the applicable code. TBCG: www.tbcg.com; TPI: www.tpi.org; WCA: www.wca-industry.com; (800) 355-8455; 919

ALPINE

TTW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

11/28/2011

SPACING 24 0"

19EE- 11HE487 703

(11-209--Fill in later BOB JORDAN -- , ** - H17AP)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 22.37 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpf (+/-)=0.18

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

MWFRS loads based on trusses located at least 11.19 ft. from roof edge.

Refer to DWG PB1200310 for piggyback details.

Special loads

----- (Lumber
Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 64 plf at 0.00 to 64 plf at 2.00
TC- From 64 plf at 2.00 to 64 plf at 24.50
TC- From 64 plf at 24.50 to 64 plf at 26.50
BC- From 4 plf at 0.00 to 4 plf at 26.50

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

Deflection meets L/240 live and L/180 total load.

4X4=

2X4 (A1) =

3X4=

4X4=

2X4 (A1) =



PLT TYP. Wave
R-24 U=13 W=6.31"
RL-B08928LF U=18 PLF W=24-11-7
Note: All Plates Are 1.5X3 Except As Shown.
Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)
Scale = .25"/Ft.

10.03. No. 0028300

WALTER P. FINN LICENSE No. 0028300 11/28/2011		FL / - / 4 / - / - / R / -	TC LL 20.0 PSF	REF R487 -- 61491
STATE OF FLORIDA PROFESSIONAL ENGINEER		TC DL 10.0 PSF	DATE 11/28/11	
Professional Engineer Walter P. Finn 11/28/2011		BC DL 10.0 PSF	DRW HCUR487 11332051	
		BC LL 0.0 PSF	HC-ENG DF/DF	
		TOT.LD. 40.0 PSF	SEQN- 246237	
		DUR.FAC. 1.25		
		SPACING 24.0"	JREF- 1UHF487_Z03	

ALPINE

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

(11-209--Fill in later BOB JORDAN -- , ** - H19AP)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 23.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located
within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=2.0 psf, LW=1.00 GCpl(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load.

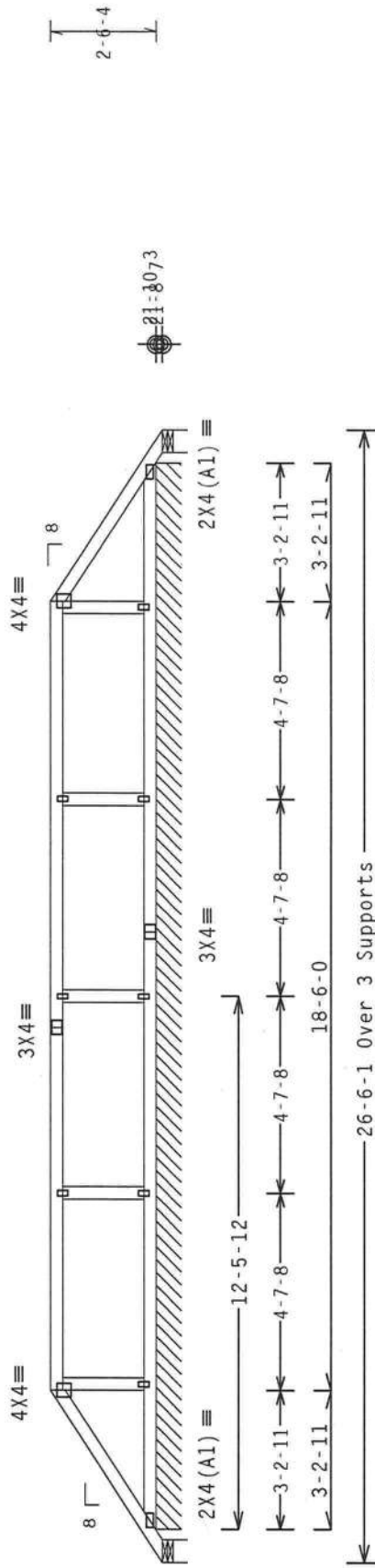
Refer to DWG PB1200310 for piggyback details.

Special loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 64 plf at 0.00 to 64 plf at 4.00
TC- From 64 plf at 4.00 to 64 plf at 22.50
TC- From 64 plf at 22.50 to 64 plf at 26.50
BC- From 4 plf at 0.00 to 4 plf at 26.50

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

MWFRS loads based on trusses located at least 11.52 ft. from roof
edge.



R=14 RW=49 U=52 W=6.31"

RL=847268LF U=16 PLF W=24-11-7

Note: All Plates Are 1.5X3 Except As Shown.

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0)/0(0))

Scale = .25"/Ft.

REF R487-- 61492

DATE 11/28/11

DRW HCUSR487 11332062

HC-ENG DF/DF

SEQN- 246247

JREF- 1UHF487_Z03

ALPINE

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

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) 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 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 any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 10062 for standard plate positions. Top chord details shall be installed in accordance with this design. The installer shall be responsible for 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; NICA: www.sbcindustry.com; ICC: www.iccsafe.org

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

1110 mph wind, 25.04 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpi(+/-)=0.18

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

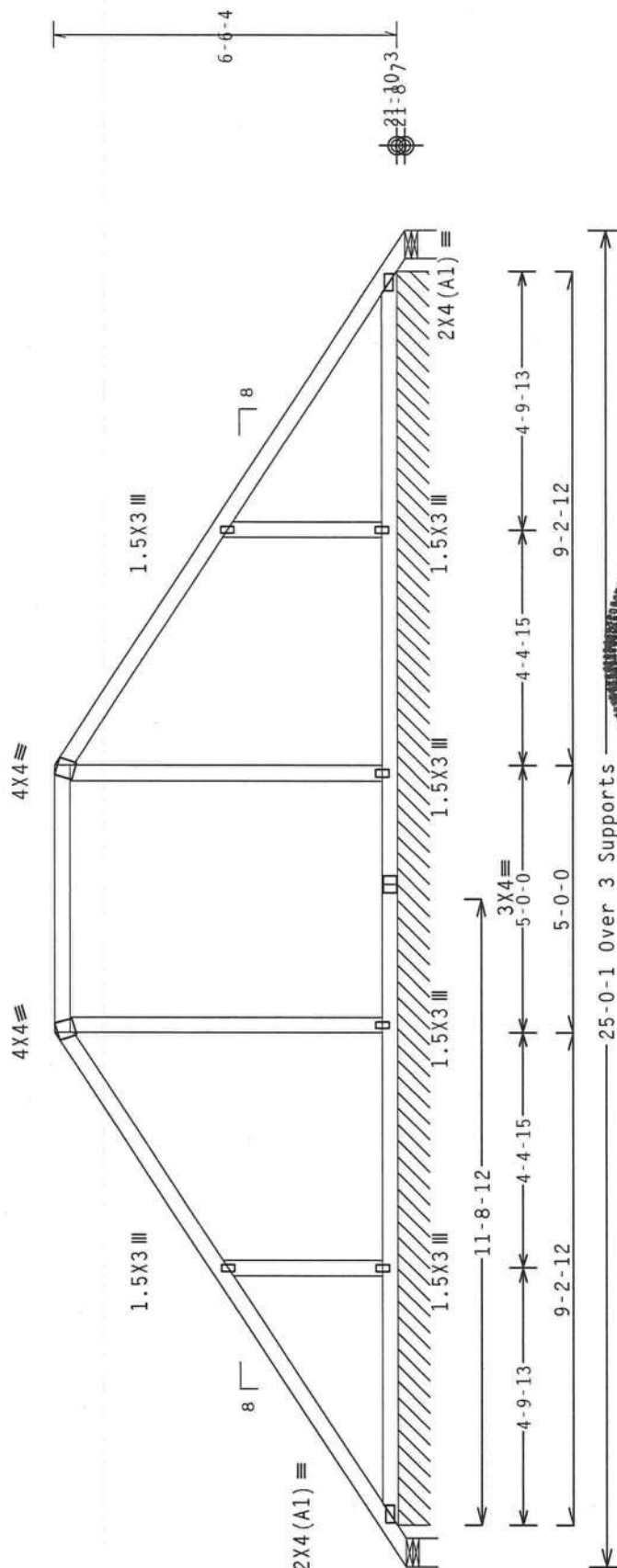
Wind loads and reactions based on MWFRS with additional C&C member design.

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.

MMWFRS loads based on trusses located at least 25.04 ft. from roof edge.

Refer to DWG PB1200310 for piqqyback details.



$R = -76$ $R_W = 123$ $II = 130$ $W = 6$ $31"$

R1=180971R0F U=13 PLF W=23-5-7

$R=-75$ $R_W=36$ $l=50$ $W=6$ $309"$

PIT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(Std)

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

10:03. Monday

Scale = .3125"/Ft.

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

IMPORTANT: FURNISH THIS DESIGN TO ALL COMPANIES INCLUDING INSTALLERS.

Crusiers require extreme care in fabricating, handling, shipping, installing and bracing. Please follow the latest edition of BC31 (Building Component Safety Information, by IPI and NICA) for safety and bracing practices prior to performing any installation. Initial and final structural drawings must have a properly attached structural engineer's stamp and bottom line. All drawings must be signed by the engineer. All drawings must be stamped with the engineer's seal. All drawings must have bracing installed per BC31 sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (IBRGO) shall not be responsible for any deviation from this drawing. The user would be responsible for determining the proper placement and sequencing of trusses, applying plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 1600-2 for standard plate positions. A seal on the underside of the truss web or cover plate 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 ABSI/SP1 Sec.2. For more information see: This Job's general notes page: IIR-BGO; www.abci.org; www.abcp.com; ipi: www.ipintest.org; NICA; www.nicaindust.com;

ALPINE

TTW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

11/28/2011

CDATING 2A 0"

1999

19EE- 11HE487 703

(11-209--Fill in later BOB JORDAN -- , ** - H2TAP)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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.

MWFRS loads based on trusses located at least 25.70 ft. from roof edge.
Refer to DWG PB1200310 for piggyback details.

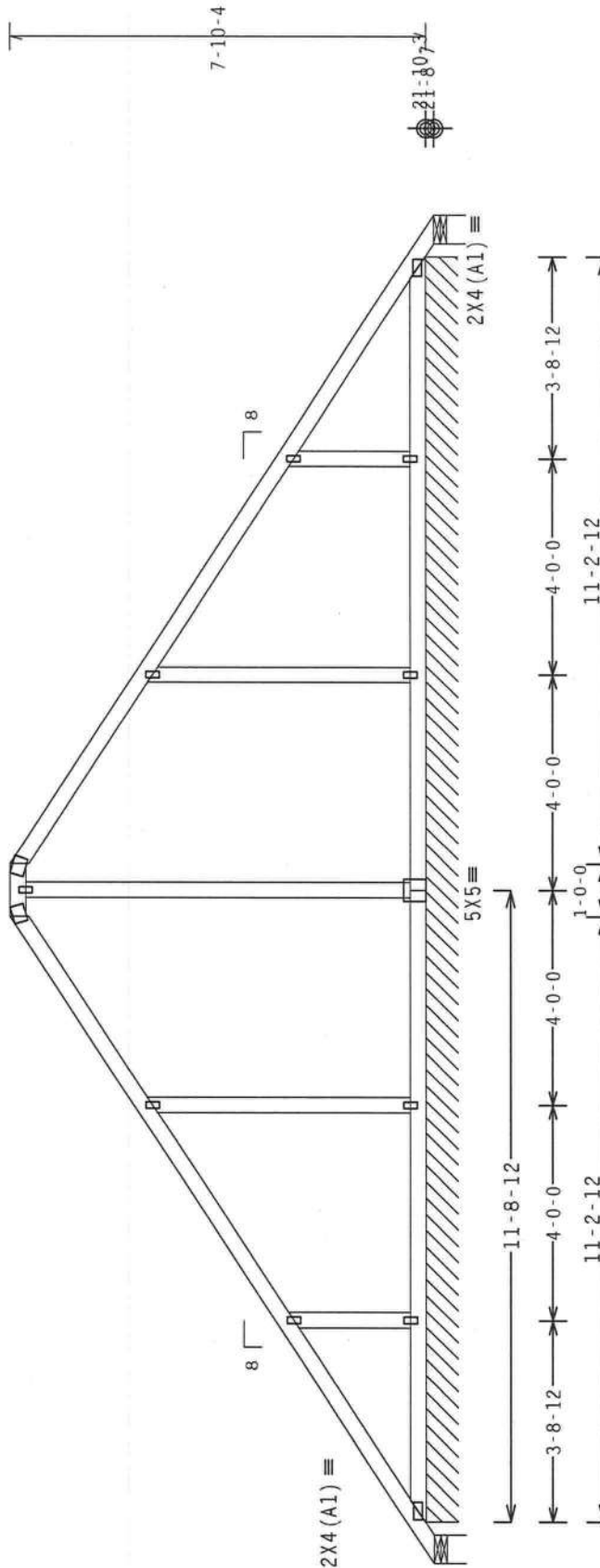
110 mph wind, 25.70 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. $I_w=1.00$ GCp1(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load.

3X4

3X4



R=-27 Rw=125 U=124 W=6.31"
RL=18-85 100F U=11 PLF W=23-5-7

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

25-0-1 Over 3 Supports

R=-27 Rw=19 U=18 W=6.309"

Scale = .3125"/Ft.

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

1003. No 22839

1003. No 22839

1003. No 22839

1003. No 22839

1003. No 22839

ALPINE		ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	
WALTER P. FINN LICENSE STATE OF FLORIDA PROFESSIONAL ENGINEER 11/28/2011		11/28/2011	
TC LL 20.0 PSF		REF R487-- 61494	
TC DL 10.0 PSF		DATE 11/28/11	
BC DL 10.0 PSF		DRW HCUSR487 11332093	
BC LL 0.0 PSF		HC-ENG DF/DF	
TOT.LD. 40.0 PSF		SEQN- 246443	
DUR.FAC. 1.25		JREF- 1UHF487_Z03	
SPACING 24.0"			

(11-209--Fill in later BOB JORDAN -- , ** - AP)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 25.87 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-2.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

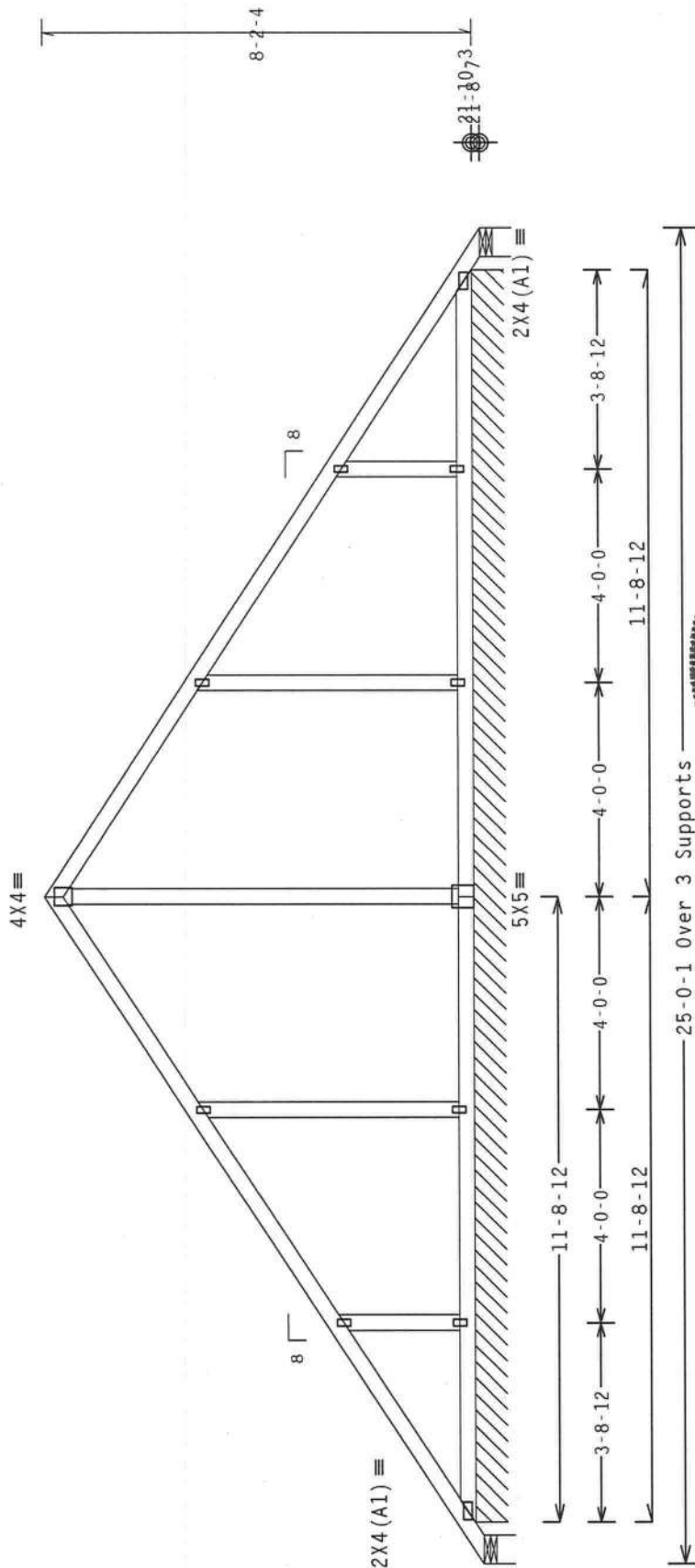
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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

Deflection meets L/240 live and L/180 total load.

MWFRS loads based on trusses located at least 25.87 ft. from roof edge.

Refer to DWG PB1200310 for piggyback details.



R=31 $R_w=130$ U=129 W=6.31"

RL=20186201F U=11 PLF W=23-5-7

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

R=31 $R_w=18$ U=18 W=6.308"

Scale = .3125" / Ft.



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.

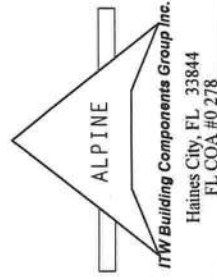
Follow the latest edition of BCSI (Building Component Safety Information, by TPI and HICA) practices prior to performing these functions.

Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

IITW Building Components Group Inc. (IITWBCG) shall not be responsible for any deviation from the design shown due to the use of materials, methods of construction, or other factors.

Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown.

The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: IITW-BCG: www.iitwbcg.com; TPI: www.tpinet.org; HICA: www.hicaindustry.com; ICCI: www.icc-safe.org



(11-209--Fill in later BOB JORDAN -- . ** - H21AP)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 23.70 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf, 1w=1.00 GCpl(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load.

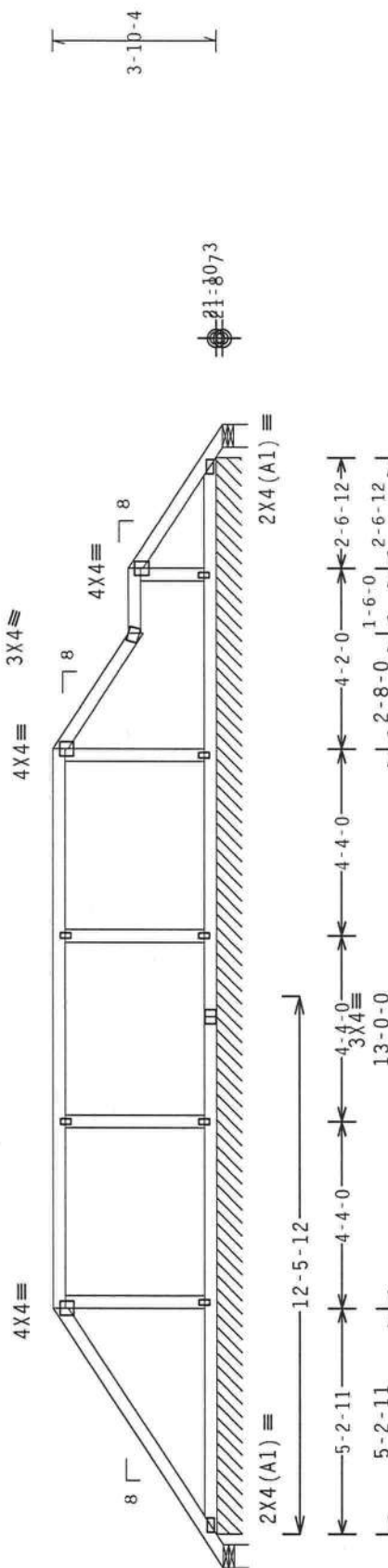
MWFRS loads based on trusses located at least 11.85 ft. from roof edge.

Refer to DWG PB1200310 for piggyback details.

Special loads

----- (Lumber
TC- From Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
64 plf at 0.00 to 64 plf at 6.00
TC- From 64 plf at 6.00 to 64 plf at 19.00
64 plf at 19.00 to 64 plf at 21.67
TC- From 64 plf at 21.67 to 64 plf at 23.17
64 plf at 23.17 to 64 plf at 26.50
BC- From 4 plf at 0.00 to 4 plf at 26.50

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



R=153 Rw=90 U=116 W=6.31"
RL=8979PLF U=17 PLF W=24-11-7

Note: All Plates Are 1.5X3 Except As Shown.

Design Crit: FBC2007Res/TPI-2002 (STC)
FT/RT=10%(0%)/0(0)

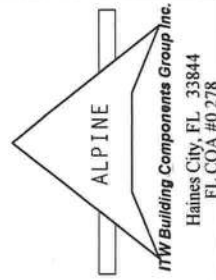
PLT TYP. Wave

Scale = .25" / Ft.

REF	R487--	61496
DATE	11/28/11	
DRW	HCUSR487	11332047
HC-ENG	DF/DF	
SEQN-	246307	
DUR.FAC.	1.25	
SPACING	24.0"	



****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. Installers shall follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing for BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 82, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing. ITWBCG shall not be responsible for any deviation from the design shown. A seal detailing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.bcsiindustry.com; ICCI: www.tccsafe.org



	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

110 mph wind, 24.37 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT 11, EXP 8, wind TC DL=5.0 psf, wind BC DL=2.0 psf. 1w=1.00 GCpt (+/-)=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.

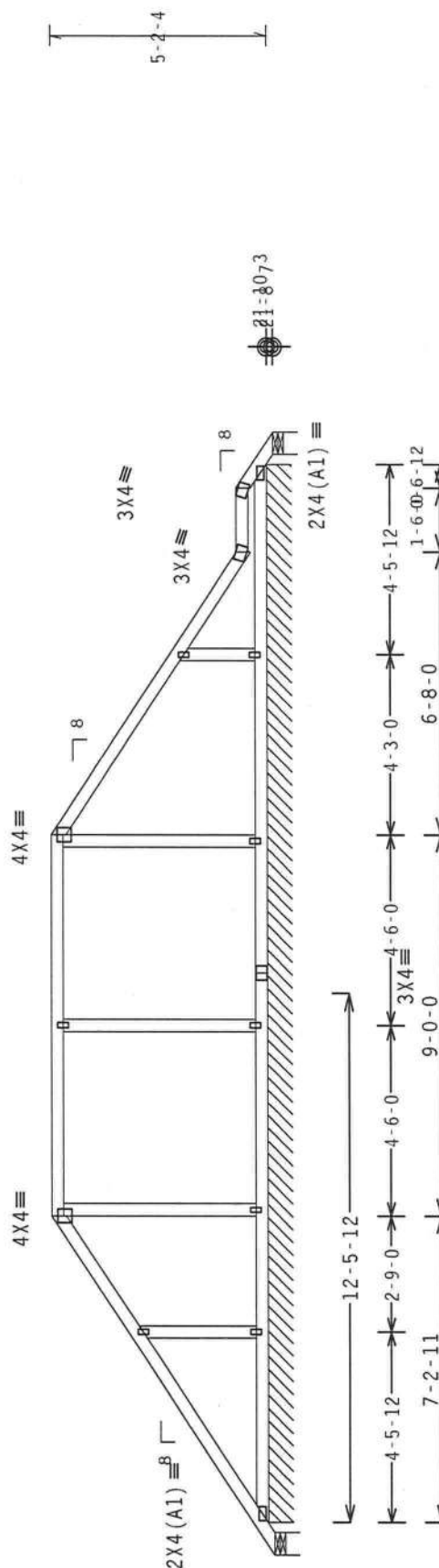
WWFRS loads based on trusses located at least 24.37 ft. from roof edge.

Refer to DWG PB1200310 for piggyback details.

Special loads
----- (Lumber

Dur.	Fac.=1.25	/	Plate	Dur.Fac.=1.25)
64	p1f at 8.00	to	64	p1f at 8.00
64	p1f at 8.00	to	64	p1f at 17.00
64	p1f at 17.00	to	64	p1f at 23.67
64	p1f at 23.67	to	64	p1f at 25.17
64	p1f at 25.17	to	64	p1f at 26.50
4	p1f at 0.00	to	4	p1f at 26.50

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



R=-.92 RW=101 II=120 W=6 31"

RI = 1937-92 KW-101 U-120 W-0.31
U=14 PLF W=24-11-7

Note: All Plates Are 1.5X3 Except As Shown.

PLT TYP. Wave

PLT TYP. Wave

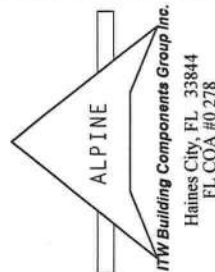
FL/-/4/-/-/R/-/-

Scale = .25"/Ft.

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

Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by IP1 and NICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing and shoring for all trusses properly attached to rafter ceiling. Trusses shall be braced for permanent lateral restraint and bracing installed per BCSI sections 83, 87, or 89, as applicable.

LTV Building Components Group Inc. (LVBGC) shall not be responsible for any deviation from the design shown on drawings or specifications. LVBGC shall not be responsible for any failure to follow instructions or for any failure to build the truss in conformance with ANSI/TPI-1 or for handling, shipping, installing, erecting, bracing or trussing of trusses. Applied plates to each face of truss and position as shown above and on the joining details, unless noted otherwise. Refer to drawings I609-Z for standard plate positions. A seal on the metal fasteners and cover plate 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: LVB-GCQ: www.lvb-gc.com; TPI: www.tpi-usa.org; NPGA: www.npga-industry.com.



Haines City, FL 33844
FL COA #0 278

Haines City, FL 338
FL COA #0278Haines City, FL 338
FL COA #0278

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

1110 mph wind, 24.37 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 9.00 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpf (+/-)=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.

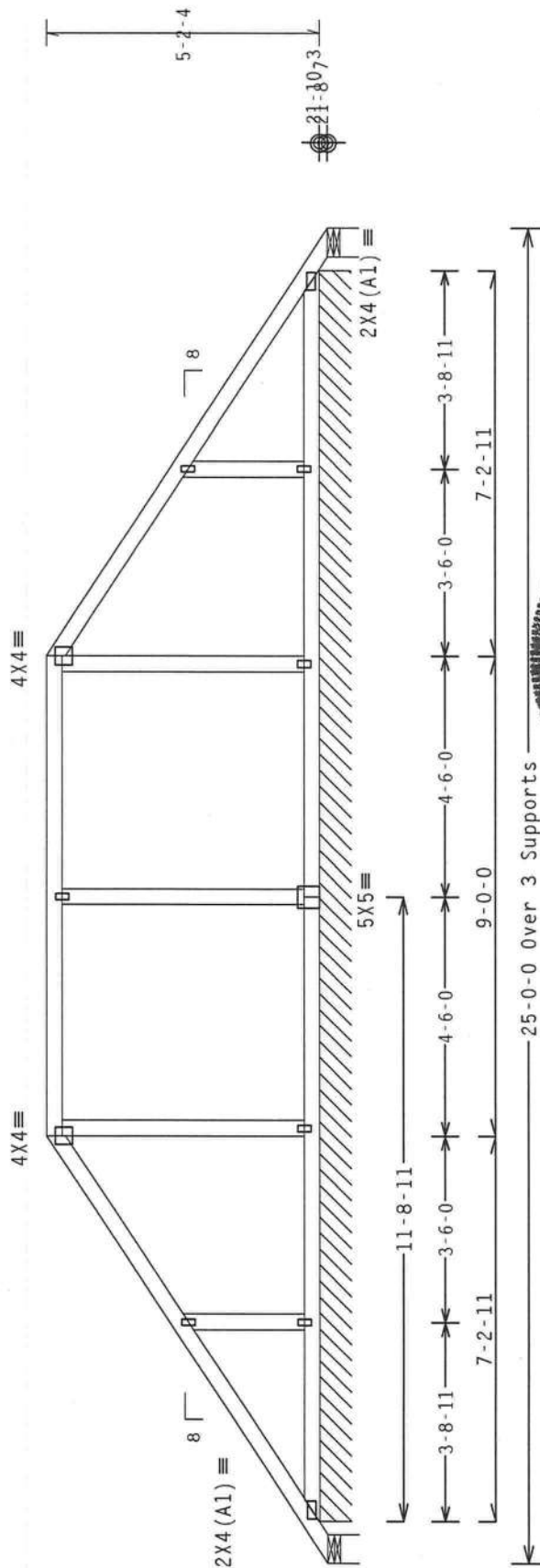
Refer to DWG PB1200310 for piggyback details.

Special loads

---(Lumber	Dur.Fac.=1.25 / Plate Dur.=1.25)
TC-From	64 pif at 0.00 to 64 pif at 8.00
TC-From	64 pif at 8.00 to 64 pif at 17.00
TC-From	64 pif at 17.00 to 64 pif at 25.00
BC-From	4 pif at 0.00 to 4 pif at 12.50
BC-From	4 pif at 12.50 to 4 pif at 25.00

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

MWFRS loads based on trusses located at least 48.74 ft. from roof edge.



R=-.33 RW=86 II=93 W=6 31"

RL=12 PLF U=12 PLF W=23-5-6

Note: All Plates Are 1.5X3 Except As Shown.

PLT TYP. Wave

Scale = .3125"/Ft.

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

10.03.14 0601040 QTY

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

DESIGN CRITERIA.

PLT TYP. Wave

TC LL	20.0 PSF	REF R487-- 61498
TC DL	10.0 PSF	DATE 11/28/11
BC DL	10.0 PSF	DRW HCUSR487 11332083
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEQN- 246382
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UHF487 Z03

NO. 24939

STATE OF FLORIDA

PROFESSIONAL ENGINEER

11/28/2011

****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. Follow the latest edition of AISC Building Components Safety Information, by L. Pankaj and R. W. Johnson, Inc., Chicago, Illinois, for all details relating to truss erection and bracing. If any conditions noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached roof ceiling. Locations shown for permanent lateral restraining shall have bracing installed per BCSP sections 83, 87 or 810, as applicable.

LTW Building Components Group Inc. (LTWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/PPI 1, or for handling, shipping, installation or any fracturing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A separate 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/PPI 1 Sec.2. For more information see: LTWBCG's website at: <http://www.ltwbcg.com>; IPF mail at: ipf@ltwbcg.com; NCA; and LTWBCG's phone number: 1-800-955-5555.



ALPINE
Building Components Group Inc.
Haines City, FL 33844
Tel. COA #0 728

(11-209--Fill in later BOB JORDAN -- , ** - EP)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 21.10 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere
in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. lw=1.00
6Cp1 (+/-)-0.18

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

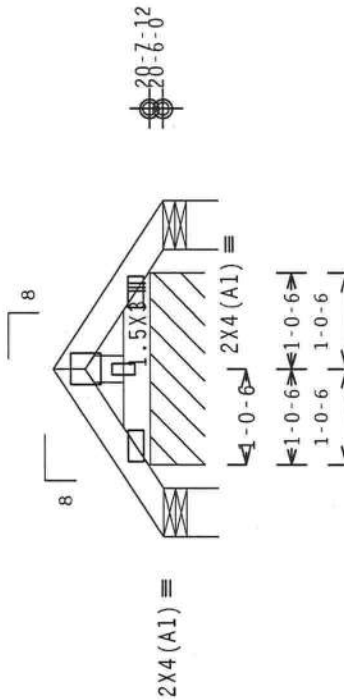
Refer to DWG PB1200310 for piggyback details.

Special loads

-----Lumber
Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 64 plf at 0.00 to 64 plf at 1.81
TC- From 64 plf at 1.81 to 64 plf at 3.61
BC- From 4 plf at 0.00 to 4 plf at 3.61

Deflection meets L/240 live and L/180 total load.

4X4=

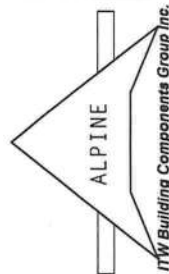


3-7-6 Over 3 Supports

R=19 U=9 W=6.31" R=19 U=9 W=6.31"
RL=25/R203 PLF U=21 PLF W=2-0-12

Design Crit: FBC2007Res/TPI-2002 (STD
FT/RT=10%(0%)/0(0)

PLT TYP. Wave



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****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing or trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. This design is intended for use by professional engineers only. 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; NICA: www.sbcindustry.com; ICC: www.iccsafe.org

1003. No. 282839

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

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487--	61499
TC DL	10.0 PSF	DATE	11/28/11	
BC DL	10.0 PSF	DRW	HCSR487	11332020
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	40.0 PSF	SEQN-	246871	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UHF487_Z03	

11/28/2011

11/28/2011

(11-209--Fill in later BOB JORDAN -- , ** - EPGE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

110 mph wind, 20.93 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere
in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. lw=1.00
GCp1 (+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.
Refer to DWG PB1200310 for piggyback details.

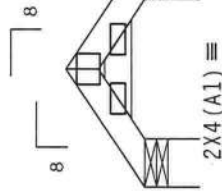
Special loads
----- (Lumber

Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 64 plf at -0.74 to 64 plf at 0.54
TC- From 64 plf at 0.54 to 64 plf at 1.82
BC- From 4 plf at -0.74 to 4 plf at 1.82

Left and right cantilevers are exposed to wind

Deflection meets L/240 live and L/180 total load.

3X4=



0-8-8
1

2X4 (A1) =

0-6-0-6-7

216-12 Over 2 Supports

R=69 U=20 W=6.31"

R=69 U=20 W=6.31"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (ST
FT/RT=10%(0%)/0(0)

Scale =.5" /Ft.

REF R487-- 61500

DATE 11/28/11

DRW HCUR487 11332078

HC-ENG DF/DF

SEQN- 246799

JREF- 1UHF487_Z03

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



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and NICA) practices prior to performing these functions. Installers shall provide temporary bracing for BCSI unless noted otherwise. Top chord shall have properly attached structural sheathing and bolts. BCSI shall have properly attached rafter bracing sections and proper lateral restraint. BCSI shall have bracing installed per BCSI Sections 85, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the details of trusses, apply plates to each rise of truss and position as shown above and 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 general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NICA: www.sbcindustry.com; ICC: www.iccsafe.org

11/28/2011

CLB WEB BRACE SUBSTITUTION

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.

NOTES:

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

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

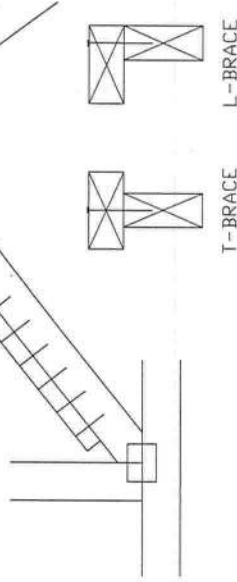
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X6(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

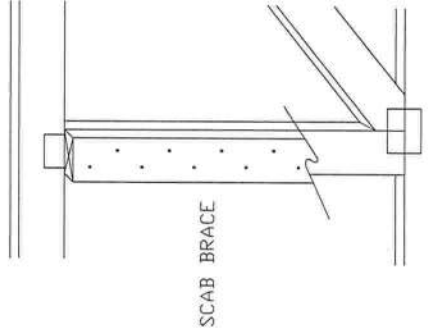
T-BRACING
OR
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3", MIN) NAILS.
AT 6" O.C.
BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



SCAB BRACING:

APPLY SCABS TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3", MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



Building Components Group Inc.

Earth City, MO 63045

*****WARNING***** READ AND FOLLOW ALL NOTES ON THIS SHEET.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information) by TPI and VICA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached rigging locations shown for permanent lateral restraint of webs and bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.
*****IMPORTANT***** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing or bracing of trusses. ITWBCG connector plates are made of 2018/16GA (0.0147/16) ALUMINUM and on Joint Details.
A seal on this drawing or cover page indicates acceptance and professional engineering responsibility for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2.
ITW-BCG ***itwbcg.com, TPI ***tpi.com, VICA ***vicaindustry.com, ICD ***icdcsafe.org



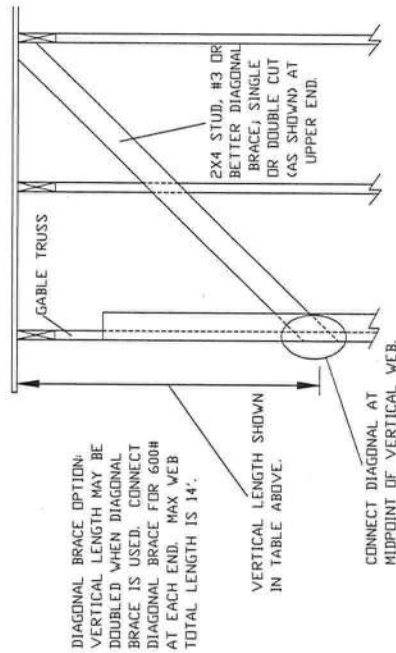
TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

2X4 GABLE VERTICAL SPACING		BRACE GRADE	NO BRACES	(1) 1X4 'L' BRACE				(2) 2X4 'L' BRACE				(1) 2X6 'L' BRACE				(2) 2X6 'L' BRACE			
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B				
12" D.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"			
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"	14' 0"				
	HF	STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"			
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"	14' 0"	14' 0"			
24" D.C.	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	DFL	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
16" D.C.	SPF	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	HF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
12" D.C.	SPF	STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	HF	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
12" D.C.	SPF	STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
12" D.C.	SPF	STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	HF	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
12" D.C.	SP	#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	DFL	#1	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		

SYMM ABOUT



DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 600H AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN IN TABLE ABOVE.

CONNECT DIAGONAL AT MIDPOINT OF VERTICAL

REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

No. 22839



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI Building Component Safety Information, by TPI and VITAC for safety practices and performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have a minimum of 2x4 bracing. Trusses shall be braced in accordance with the provisions of the BCSI Manual and bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV Building Components Group Inc. (ITVBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in accordance with TPI, or any fabricating, handling, shipping, installing or bracing of the truss in violation of the provisions of the BCSI Manual, shall be the responsibility of the installer. The installer shall be responsible for the suitability and use of this component for any and all jobs. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any and all jobs shall be the responsibility of the installer. For more information, contact TPI at 1-800-368-7744 or ITV-BCG at 3740/60 4624/H/53 galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details.

ITV-BCG www.itvbcg.com TPI www.tpi.com VITAC www.vitac.com BCSI www.bcsiindustry.com ICD www.icdsafe.org



Earth City, MO 63045

BRACING GROUP SPECIES AND GRADES:			
GROUP A:			
SPRUCE-PINE-FIR	HEM-FIR		
#1 / #2	#3	STUD	STANDARD
GROUP B:			
DOUGLAS FIR-LARCH	SOUTHERN PINE		
#3	#3	STUD	STANDARD

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.
 PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING 45 PSF TO DEAD LOAD.
 GABLE END SUPPORTS LOAD FROM 4' 0"
 OUTLEADERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
 ATTACH EACH 'L' BRACE WITH 10d NAILS.
 * FOR 1D 'L' BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.
 * *FOR 2D 'L' BRACE: SPACE NAILS AT 3' O.C. 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 DR 2X3		
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	25X4		
GREATER THAN 11' 6"	3X4		

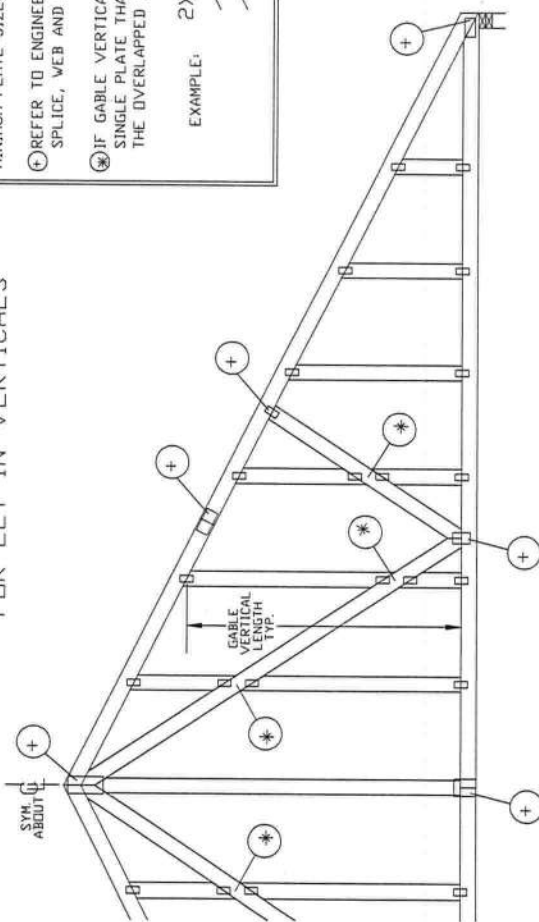
+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

REF	ASCE7-05-GABI015
DATE	1/1/09
DRWG	A11015050109

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

GABLE DETAIL FOR LET-IN VERTICALS



GABLE TRUSS PLATE SIZES

REFER TO APPROPRIATE ITV GABLE DETAIL FOR MINIMUM PLATE SIZES FOR VERTICAL STUDS.

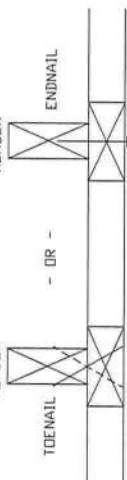
⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

⊗ IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE THAT COVERS THE TOTAL AREA OF THE OVERLAPPED PLATES TO SPAN THE WEB.

EXAMPLE:



T REINFORCEMENT ATTACHMENT DETAIL



TO CONVERT FROM 'L' TO 'T' REINFORCING MEMBERS, MULTIPLY 'T' INCREASE BY LENGTH (BASED ON APPROPRIATE ITV GABLE DETAIL).

MAXIMUM ALLOWABLE 'T' REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ 'T' BRACE

WIND SPEED AND MRH	'T' REINF. MBR. SIZE	'T' INCREASE
140 MPH	2x4	10 %
15 FT	2x6	50 %
140 MPH	2x4	10 %
30 FT	2x6	50 %
130 MPH	2x4	10 %
15 FT	2x6	50 %
130 MPH	2x4	10 %
30 FT	2x6	50 %
120 MPH	2x4	10 %
15 FT	2x6	50 %
120 MPH	2x4	10 %
30 FT	2x6	40 %
110 MPH	2x4	10 %
15 FT	2x6	40 %
110 MPH	2x4	10 %
30 FT	2x6	20 %
100 MPH	2x4	10 %
15 FT	2x6	20 %
100 MPH	2x4	10 %
30 FT	2x6	20 %
90 MPH	2x4	20 %
15 FT	2x6	20 %
90 MPH	2x4	20 %
30 FT	2x6	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT, Kzt = 1.00

GABLE VERTICAL = 24' O.C. SP #3

'T' REINFORCING MEMBER SIZE = 2X4

'T' BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 'L' BRACE LENGTH = 6' 7"

MAXIMUM 'T' REINFORCED GABLE VERTICAL LENGTH

110 x 6' 7" = 7' 3"

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH 'T' REINFORCING MEMBER WITH

END DRIVEN NAILS:

10d COMMON (0.148"x3" MIN) NAILS AT 4' O.C. PLUS

(4) NAILS IN TOP AND BOTTOM CHORD.

TODENAIL NAILS:

10d COMMON (0.148"x3" MIN) TODENAILS AT 4' O.C. PLUS

(4) TODENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITV GABLE DETAIL FOR ASCE

WIND LOAD.

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015980109, A12015980109, A11015980109, A10015980109,

A13015980109, A12015980109, A11015980109, A10015980109

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015020109, A12015020109, A11015020109, A10015020109,

A13015020109, A12015020109, A11015020109, A10015020109

ASCE 7-05 GABLE DETAIL DRAWINGS

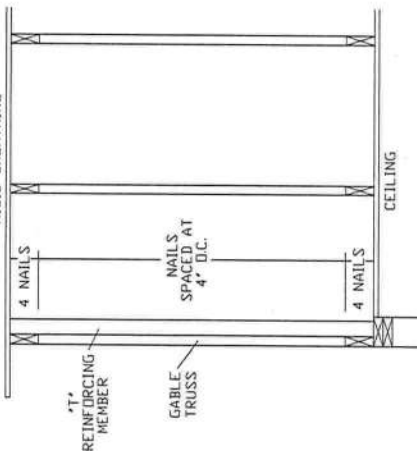
A13015050109, A12015050109, A11015050109, A10015050109,

A13015050109, A12015050109, A11015050109, A10015050109

SEE APPROPRIATE ITV GABLE DETAIL FOR MAXIMUM

UNREINFORCED GABLE VERTICAL LENGTH.

RIGID SHEATHING



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by TPI and VITCA) for safety practices prior to performing these functions. Truss components shall be installed in accordance with the design and bracing instructions. Truss components shall be installed in accordance with the design and bracing instructions. Truss components shall be installed in accordance with the design and bracing instructions.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

Building Components Group Inc. (ITVBCG) shall not be responsible for any deviation from the design and bracing instructions. Truss components shall be installed in accordance with the design and bracing instructions. Truss components shall be installed in accordance with the design and bracing instructions.

A seal on this drawing or cover page indicates acceptance and professional engineering responsibility. The seal shall be the property of the engineer and shall not be used for any other purpose. The seal shall be the property of the engineer and shall not be used for any other purpose.

ITV-BCG, www.itvbcg.com, TPI, www.tpi.net, VITCA, www.vitca.com, ICC, www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045



11/28/2011

REF LET-IN VERT

DATE 1/1/09

DRWG GBLLETIN0109

MAX TOT. LD. 60 PSF

DUR. FAC. ANY

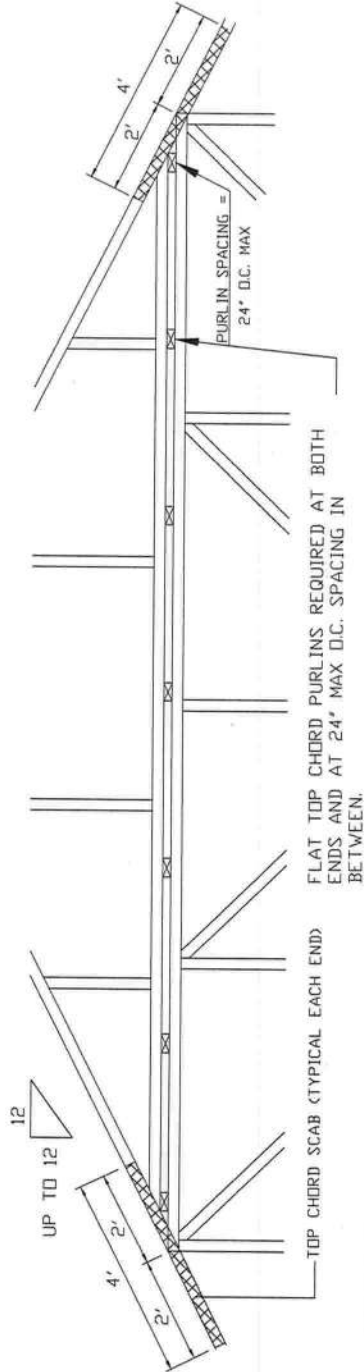
MAX SPACING 24.0"

UP TO 120 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02 OR ASCE 7-05, ENCLOSED BLDG. LOCATED ANYWHERE IN ROOF, CAT II, EXP C, 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 LOADS OVER GABLE ENDS.

*** REFER TO ENGINEER'S SEALED TRUSS DESIGN DRAWING FOR PIGGYBACK AND BASE TRUSS SPECIFICATIONS.

DETAIL A : PURLIN SPACING = 24" O.C. OR LESS

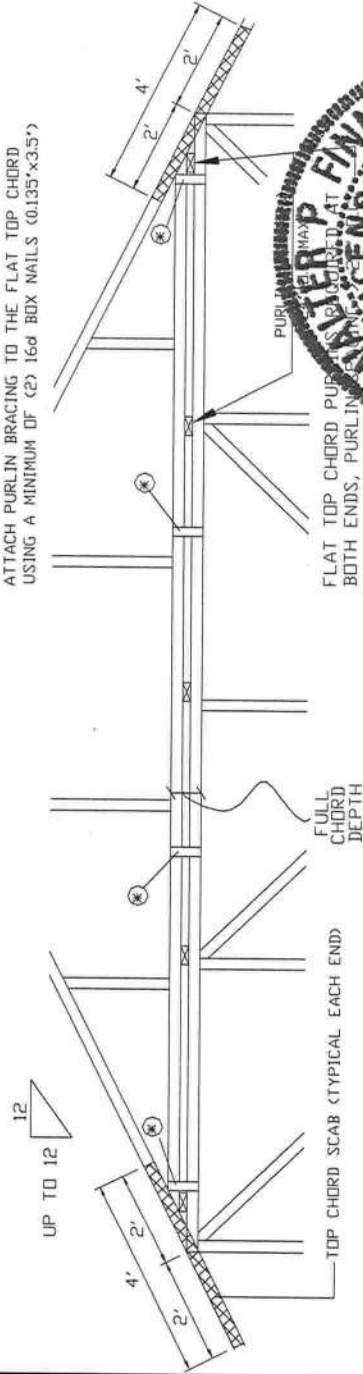


PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD
PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5")
AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB
(1 SIDE ONLY AT EACH END) ATTACHED WITH
2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4" O.C.

ATTACH PURLIN BRACING TO THE FLAT TOP CHORD
USING (2) 16d BOX NAILS (0.135"x3.5")

THE TOP CHORD 2"x4" SCAB MAY BE REPLACED WITH EITHER OF THE FOLLOWING 2"x8 TRULYS.
PLATE ATTACHED WITH (8) 0.120"x1.375" DR #10 INTO CAP IC & (4) INTO BASE TRUSS IC DR #10 209PB WAVE PIGGYBACK PLATE PLATED TO THE PIGGYBACK TRUSS IC AND ATTACHED TO THE BASE TRUSS IC WITH (4) 0.120"x1.375" NAILS. NOTE: NAILING THRU HOLES OF WAVE PLATE IS ACCEPTABLE.

DETAIL B : PURLIN SPACING > 24" O.C.



PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5") AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB #1 SIDE ONLY AT EACH END) ATTACHED WITH 2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4' O.C.

ATTACH PURLIN BRACING TO THE FLAT TOP CHORD USING A MINIMUM OF (2) 16d BOX NAILS (0.135"x3.5")

NOTE: IF PURLINS OR SHEATHING ARE NOT SPECIFIED ON THE FLAT TOP OF THE TRUSS, PURLINS MUST BE INSTALLED AT 24" O.C. MAX. AND USE DETAIL A.

[illegible]

* IN ADDITION, PROVIDE CONNECTION WITH ONE OF THE FOLLOWING METHODS:

TRULIX

USE 3x8 TRULIX PLATES FOR 2x4 CHORD MEMBER, AND 3x10 TRULIX PLATES FOR 2x6 AND LARGER CHORD MEMBERS. ATTACH TO EACH FACE @ 8" O.C. WITH (4) 0.120"x1.375" NAILS INTO CAP BOTTOM CHORD AND (4) IN BASE TRUSS TOP CHORD. TRULIX PLATES MAY BE STAGGERED 4" O.C. FRONT TO BACK FACES.

APA RATED GUSSET

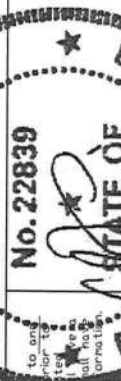
8"x8"x7/16" (MIN) APA RATED SHEATHING GUSSETS (EACH FACE), ATTACH @ 8" O.C. WITH (8) 6d COMMON NAILS PER GUSSET, (4) IN CAP BOTTOM CHORD AND (4) IN BASE TRUSS TOP CHORD. GUSSETS MAY BE STAGGERED 4" O.C.FRONT TO BACK FACES.

2x4 VERTICAL SCABS

EX-4 VERTICAL SCABS
2"x4" SPF#12, FULL CHORD DEPTH SCABS (EACH FACE).
ATTACH @ 8" OC. WITH (6) 10d BOX NAILS (0.128"x3")
PER SCAB. (3) IN CAP BOTTOM CHORD AND (3) IN
BRASS TRUSS TOP CHORD. SCABS MAY BE STAGGERED
4" OC. FRUNT TO BACK FACE

28PB WAVE PIGGYBACK PLATE

USE 28PWB WAVE PIGGYBACK PLATE TO EACH FACE
OF 2" O.C. ATTACH TEETH TO PIGGYBACK AT TIME OF
FABRICATION. ATTACH TO SUPPORTING TRUSS WITH
4" O.C. 0.120"x1.375" NAILS PER FACE PER PLY.
PIGGYBACK PLATES MAY BE STAGGERED 4' O.C. FRONT
TO BACK FACES.

 Building Components Group Inc. Earth City, MO 63045	***WARNING*** READ AND FOLLOW ALL NOTES ON THIS SHEET! Trusses require erecting, bracing, installing and bracing. Refer to and follow the Building Components Safety Information (BCSI) plates for performing these functions. Installers shall provide temporary bracing per BCSI plates for all other trusses. Trusses shall be braced in accordance with the BCSI plates. Otherwise, top chord shall have properly attached structural panels and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall not be braced installed per BCSI sections B3 & B7. See this job's general notes page for more information. ***IMPORTANT*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR ITW Building Components Group Inc. (ITWBCG) shall be responsible for any deviation from design, any failure to build the truss in conformance with TPI or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/16GA C/H/S/KX All grade 37/40/60 K2/V/H/SJ galv. steel. Apply plates to each face of truss, positioned as shown on and on joint details. Seal on this drawing or cover page indicates acceptance and professional engineering responsibility and the responsibility of the Building Designer. ITW-BCG: www.itwbcg.com TPI: www.tpinet.com VTCA: www.structuretry.com ICC: www.iccsafe.org		REF PIGGYBACK
			DATE 03/15/10 DRWG PBI200310
			SPACING 24.0"
		1/28/2011	