

24010

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
 Florida Engineering Certificate of Authorization Number: 567
 Florida Certificate of Product Approval # FL1999
 Page 1 of 1 Document ID: ISY4487-Z0416153824

Truss Fabricator: Anderson Truss Company
 Job Identification: 5-447-GARY JOHNSON - LAW
 Truss Count: 37
 Model Code: Florida Building Code;
 Truss Criteria: ANSI/TPI-2002(STD)/FBC
 Engineering Software: Alpine Software, Versions 7.04, 7.24.
 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 7-98 -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

Details: CNBRGBLK-TCFILLER-BCFILLER-BRCLBSUB-

Seal Date: 06/16/2006

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

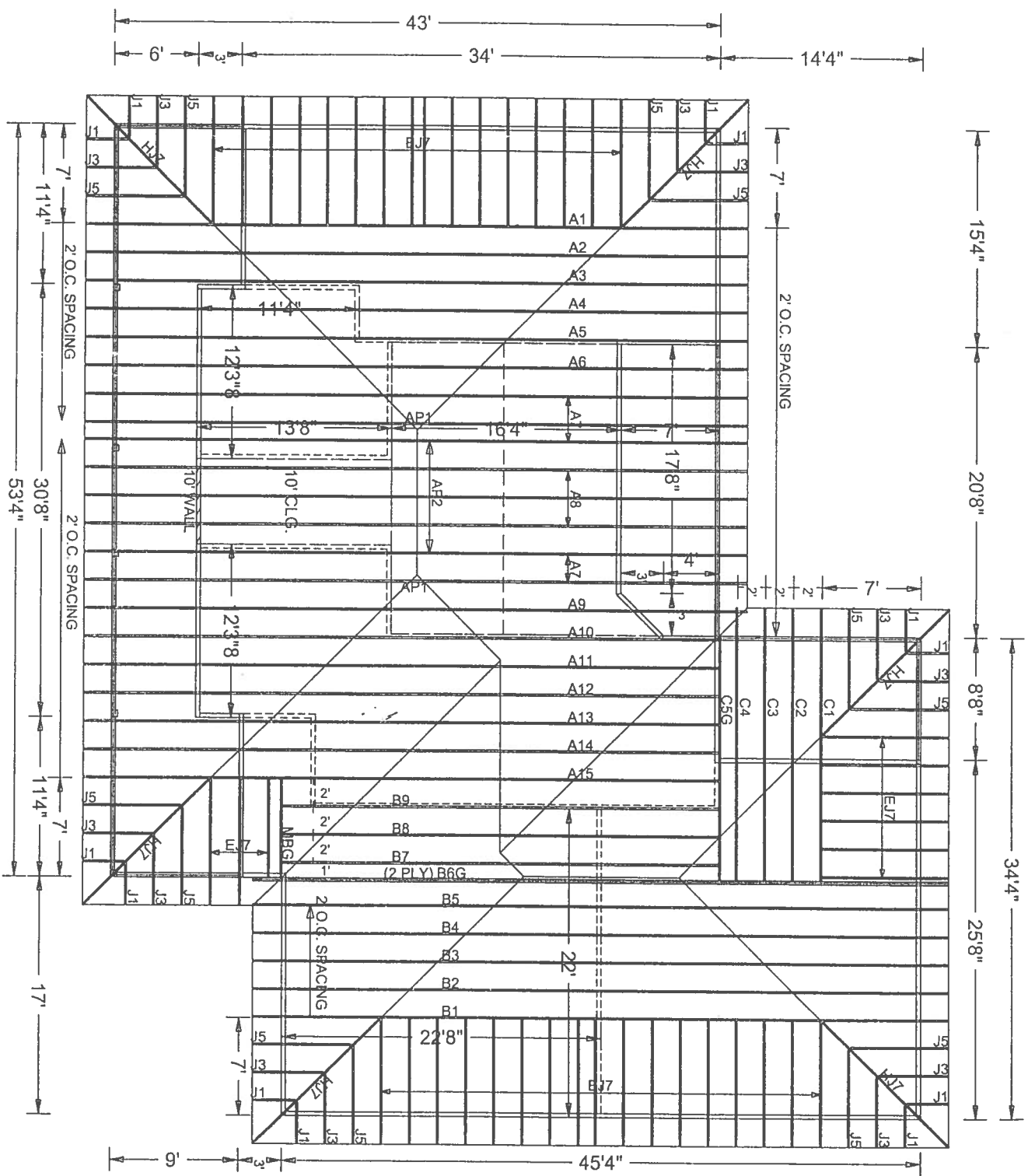
1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	55049--A1		06167059	06/16/06
2	55050--A2		06167053	06/16/06
3	55051--A3		06167054	06/16/06
4	55052--A4		06167055	06/16/06
5	55053--A5		06167056	06/16/06
6	55054--A6		06167057	06/16/06
7	55055--A7		06167058	06/16/06
8	55056--A8		06167059	06/16/06
9	55057--A9		06167060	06/16/06
10	55058--A10		06167061	06/16/06
11	55059--A11		06167062	06/16/06
12	55060--A12		06167063	06/16/06
13	55061--A13		06167064	06/16/06
14	55062--A14		06167065	06/16/06
15	55063--A15		06167066	06/16/06
16	55064--B1		06167055	06/16/06
17	55065--B2		06167060	06/16/06
18	55066--B3		06167065	06/16/06
19	55067--B4		06167074	06/16/06
20	55068--B5		06167075	06/16/06
21	55069--B6G		06167058	06/16/06
22	55070--B7		06167070	06/16/06
23	55071--B8		06167068	06/16/06
24	55072--B9		06167071	06/16/06
25	55073--C1		06167061	06/16/06
26	55074--C2		06167062	06/16/06
27	55075--C3		06167063	06/16/06
28	55076--C4		06167064	06/16/06
29	55077--C5G		06167067	06/16/06
30	55078--MBG		06167069	06/16/06
31	55079--HJ7		06167076	06/16/06
32	55080--EJ7		06167057	06/16/06
33	55081--J5		06167077	06/16/06
34	55082--J3		06167078	06/16/06
35	55083--J1		06167056	06/16/06
36	55084--AP1		06167072	06/16/06

#	Ref	Description	Drawing#	Date
37	55085--AP2		06167073	06/16/06





Scale: 3/32" = 1'

#5-447 GARY JOHNSON - LAW
752-3444
961-3031 Cell

10/17/05

Top chord 2x4 SP #2 Dense : T2, T3 2x6 SP #2:

Bot chord 2x6 SP #2 :B2 2x6 SP #1 Dense:

Webs	2x4 SP #3	:W6	2x4 SP #2	Dense:
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110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

(B) 2x6 SP #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. Creep increase factor for dead load is 1.50.

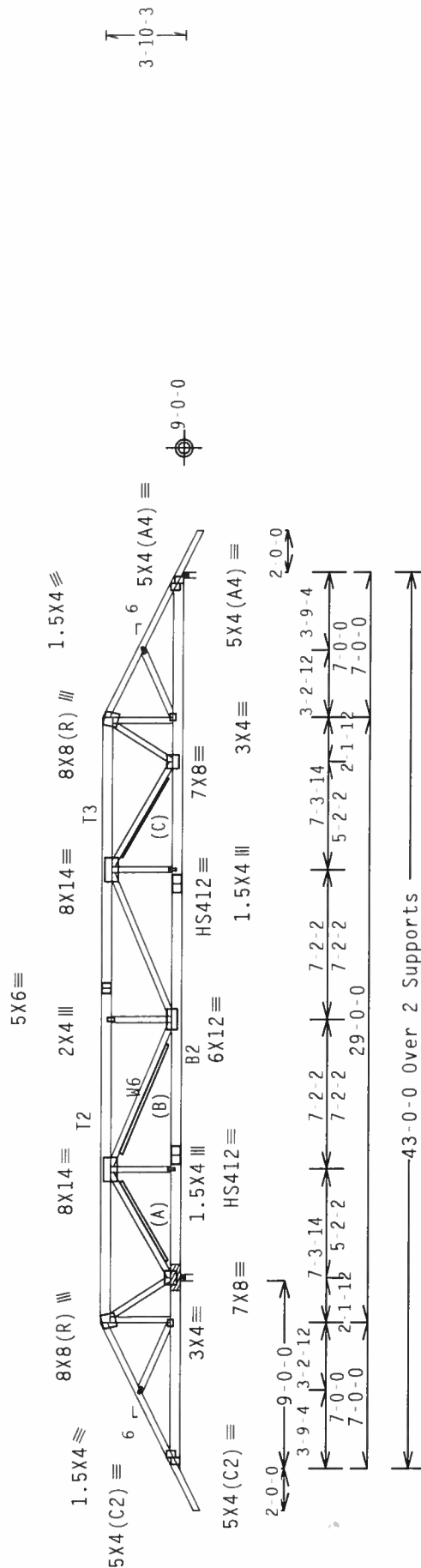
Bearing blocks: Nail type: 10d Common (0.148"x3", min.) nails
 1 BRG X LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
 1 9,000' 1 15" 12 Match Truss

Bearing block to be same size and species as bottom chord.
 Refer to drawing CNRBGL1103 for additional information.

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

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

#1 hip supports 7-0-0 jacks with no webs.



R=4631 U=1946 W=3.5"

R=2679 U=1126 W=3.5^H

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS, Wave

$$Cq/RT=1.00(1.25)/10(0) \quad 7.04.08$$

TY: 1

$$\text{Scale} = 125''/\text{Foot}$$

WARNING THESE'S OUTLINE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BEST BUILDING COMMISSION PUBLISHED BY IPCI (PROCESS PLANT INSTITUTE, 583 RIVERVIEW DR., SUITE 200, MADISON, WI 53719) AND MICHIGAN DEPARTMENT OF CONSTRUCTION, 6500 CENTERLINE, N.E. MADISON, MI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE CONNECTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED UPRIGHT CELLING.

[illegible]

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

Haines City, FL 33844

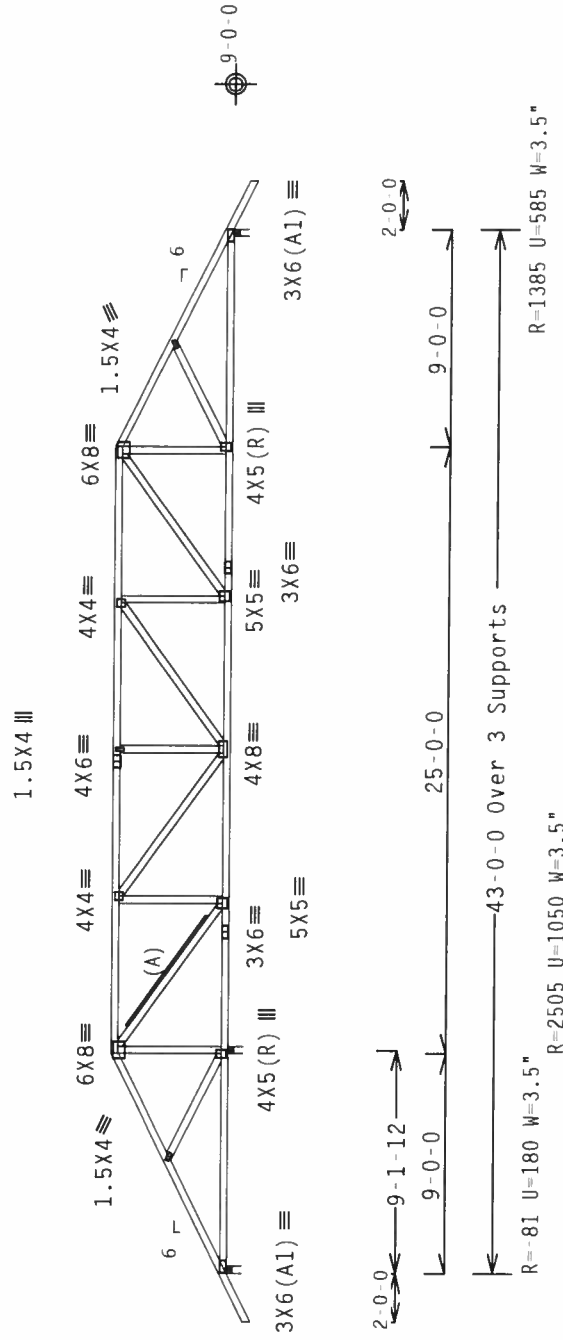
Jun 16 '06



110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf

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

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

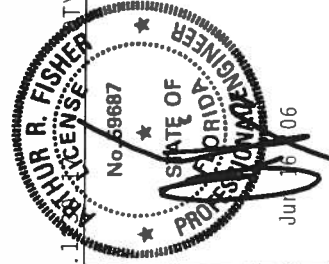


Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.15$

Scale = .125"/Ft.

TC LL	20.0	PSF	REF	R487--	55050
TC DL	10.0	PSF	DATE	06/16/06	
BC DL	10.0	PSF	DRW	HCHSR487	06167053
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	110693	
DUR.FAC.	1.25				



ALPINE

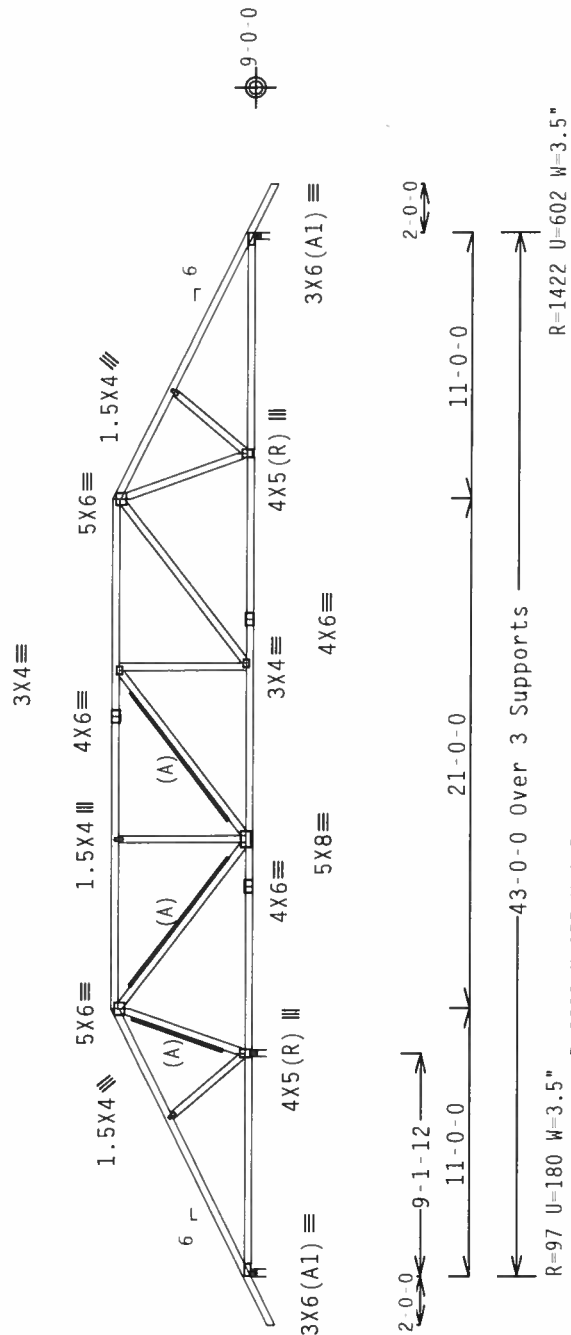
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

1110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not
located within 6.50 ft from roof edge, CAT II, EXP B, wind TC
DL=0.0 psf, wind BC DL=0.0 psf.

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

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Scale = .125"/Ft.

EF R487 - - 55051

ATE 06/16/06

RW HC11SP487 06167054

IC-ENC 10/AF

FOR THE

EQN- -NQ3- 8690TT

REF- 1SY4187 Z04

*WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TO BESS' 103 BUILDING COMPONENTS, PUBLISHED BY IPT (CROSS PLATE INSTITUTE, 583 S. BROADWAY, NEW YORK, N.Y. 10038) IS THE SOURCE OF THESE CHORDS. IF YOU ARE A CONTRACTOR, ARCHITECT, ENGINEER OR HOMEOWNER, PLEASE CONTACT US AT 609-781-6600, FAX 609-781-6601, WWW.IPTTRUSS.COM, 103 BUILDING COMPONENTS, MADISON, WI 53719. FOR ALL TRUSS PANELS PRIOR TO PERFORMING THESE CONSTRUCTIONS, IT IS CRITICAL THAT YOU KNOW THE EXACT LOCATION OF ALL UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SUBMITTAL OF THIS DESIGN TO THE INSTALLATION CONTRACTOR FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS OR FABRICATION REQUIREMENTS OF THIS DESIGN. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA AND 1975) AND CONNECTOR PLATES ARE MADE OF 2018B/16GA. (MIL-H-18232) ASTM A453 GRADE 40/50 (W. 6/16 S). GALV. STEEL PLATES TO EACH FACE OF TRUSS AND (MIL-H-18232) LOCATED ON DESIGN POSITION PER DRAWINGS 160A. 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF 1911 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/1911 1 SEC. 2.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Scale of 1" = 567'

scale of / 5000 #567

(5-447 GARY JOHNSON - LAW - A5)

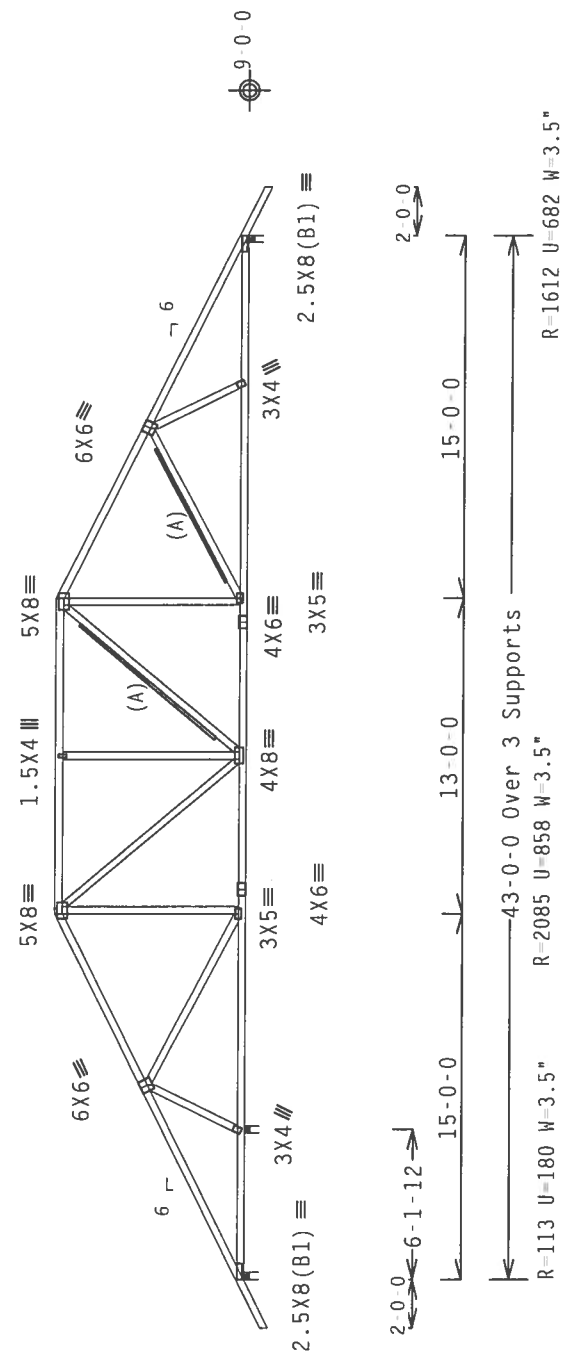
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

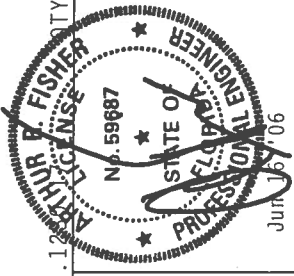
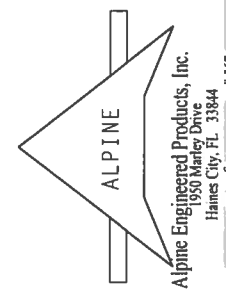
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave

Scale = .125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUREAU OF STANDARDS, 400 DODD DR., SUITE 200, MADISON, WI 53719, AND NCEA (NATIONAL COUNCIL OF ENGINEERING ASSOCIATIONS), 1801 N. LINCOLN DR., SUITE 100, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (4.1/2/5/7/8) ASTM A653 GRADE 40/50 (4.1/2/5) GALV. STEEL. APPLY AND INSPECTION OF PLATES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE DESIGN. A SEAL ON THIS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



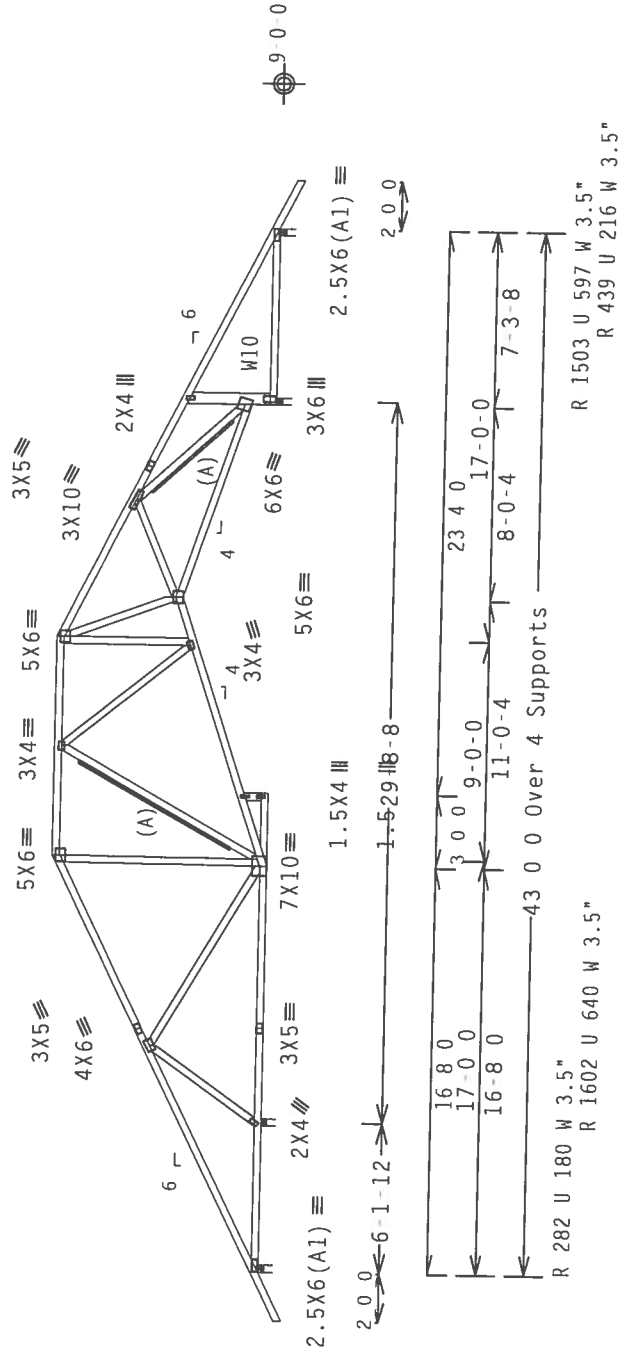
TC LL	20.0 PSF	REF	R487	55053
TC DL	10.0 PSF	DATE	06/16/06	
BC DL	10.0 PSF	DRW	HCUSR487	06167056
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN	110710	
DUR.FAC.	1.25			
CDATING	24 04			

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf

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

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

SEE DWGS TCFILLER103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP
CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT
CHORD ENDS.



PLT TYP. Wave

Design Crit: TPI 2002(STD)/FBC

 $Cq/RT-1.00(1.25)/10(0)$ 7.24.15

Scale = .125"/Ft

TC LL	20.0	PSF	REF	R487 --	55054
TC DL	10.0	PSF	DATE	06/16/06	
BC DL	10.0	PSF	DRW	HCUSR487	06167057
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	110716	
DUR.FAC.	1.25				
SPACING	24.0"				

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 D3 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 593 D-000100100, 801 SUTTE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHILLING.

[illegible]

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
rate of A
n # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W12 2x6 SP #2:
Filler 2x4 SP #3

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

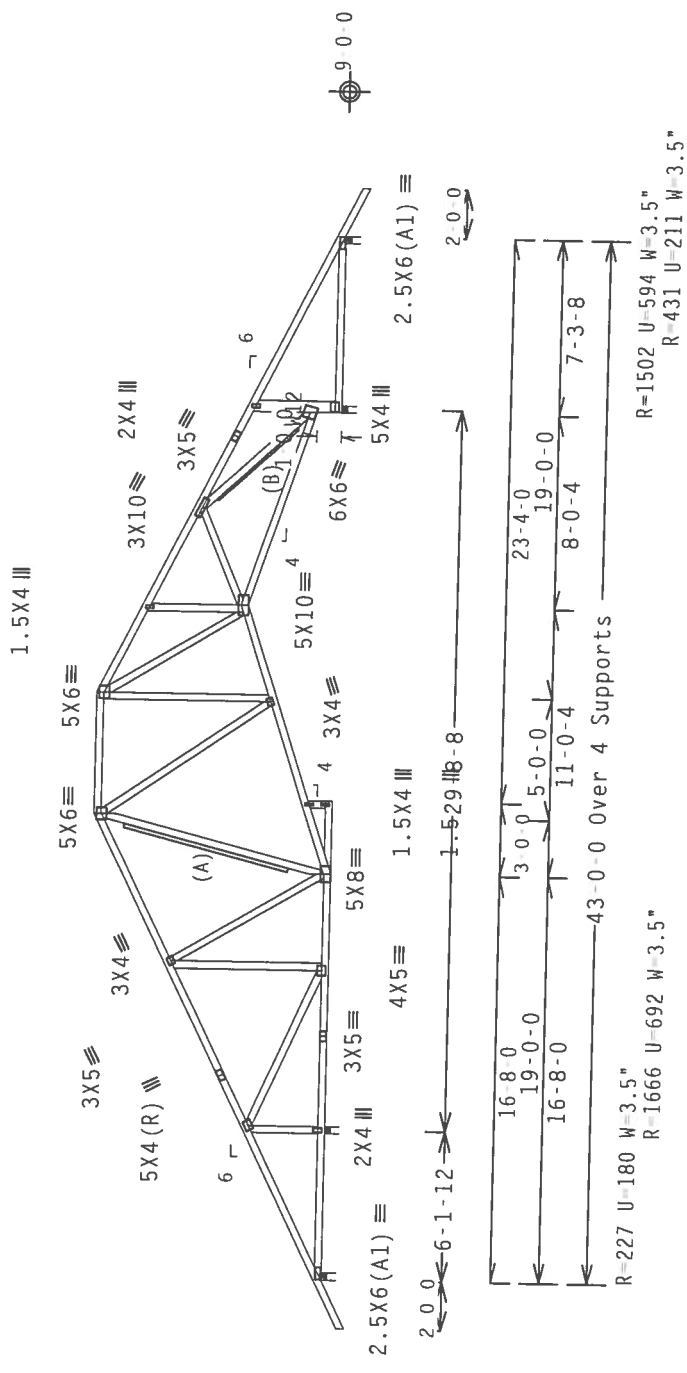
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

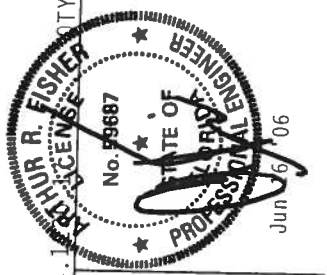
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

TC LL	20.0 PSF	FL/-/4/-/R/-	Scale = .125"/Ft.
TC DL	10.0 PSF	REF R487 --	55055
BC DL	10.0 PSF	DATE	06/16/06
BC LL	0.0 PSF	DRW HCUSR487	06167058
TOT.LD.	40.0 PSF	HC-ENG JB/AF	
DUR.FAC.	1.25	SEQN-	110721



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BEFORE TO BEGINS 1.01 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLANING INSTITUTE) 583 DOWNSIDE RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATOR'S INSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE INSTALLER. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (IN-H/5/3) ASTM A653 OR 20/18/16GA (IN-H/5/3) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, APPLY PER DRAWINGS 160A.2 ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANCH A3 OF TPI 2002 SEC. 1.1.1 PER DRAWINGS 160A.2. DESIGNER INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Scale of 1/8" = 1'-0"

Page # 567

Certificate of / : 'm # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W12 2x4 SP #2 Dense:
Filler 2x4 SP #3

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

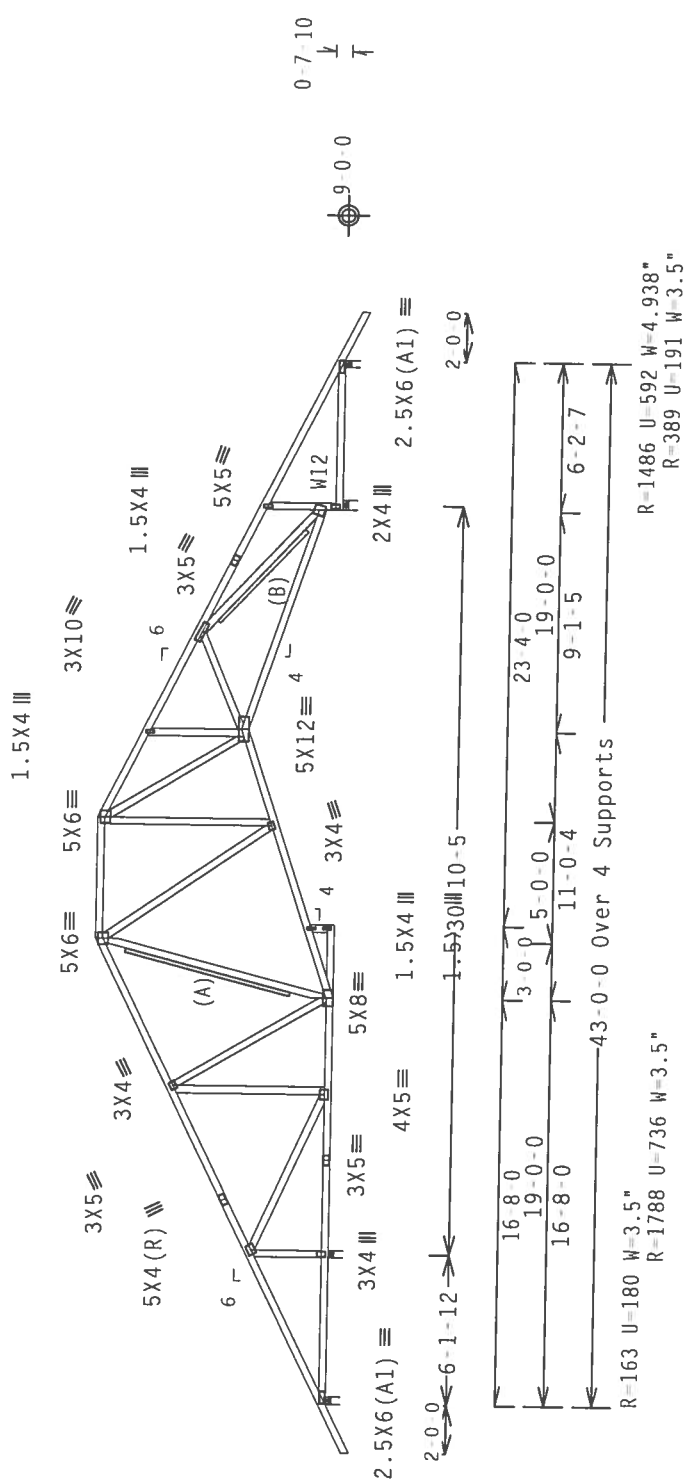
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

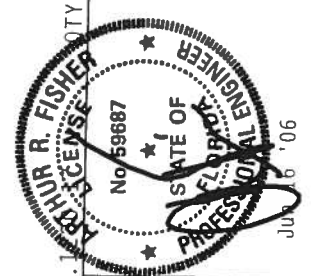
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

TC LL	20.0 PSF	FL/-4/-R/-	Scale = .125"/Ft.
TC DL	10.0 PSF		REF R487-- 55057
BC DL	10.0 PSF		DATE 06/16/06
BC LL	0.0 PSF		DRW HCUSR487 06167060
TOT.LD.	40.0 PSF		HC-ENG JB/AF
DUR.FAC.	1.25		SEQN- 110731
CDACTING	24		



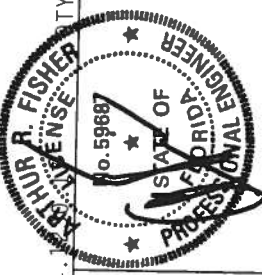
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS POINT), 500 OGDON RD., SUITE 200, MADISON, WI 53719, AND MECA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, TOWNSHIP, MI 48063) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS (R-10/1066A (R-10/1066A) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1066A (R-10/1066A) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED OR INDICATED, APPLY PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TPI 2002 SPEC. SCALE ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY 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.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Date of 10 # 507

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

PLT TYP. Wave



1	FL/-/4/-/-/R/-	Scale = .125"/Ft.
TC LL	20.0 PSF	REF R487 - 55058
TC DL	10.0 PSF	DATE 06/16/06
BC DL	10.0 PSF	DRW HCURS487 06167061
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 110736
DUR.FAC.	1.25	

Jun 16 '06

[illegible]

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

144
705 # 567

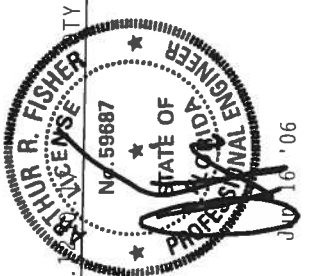
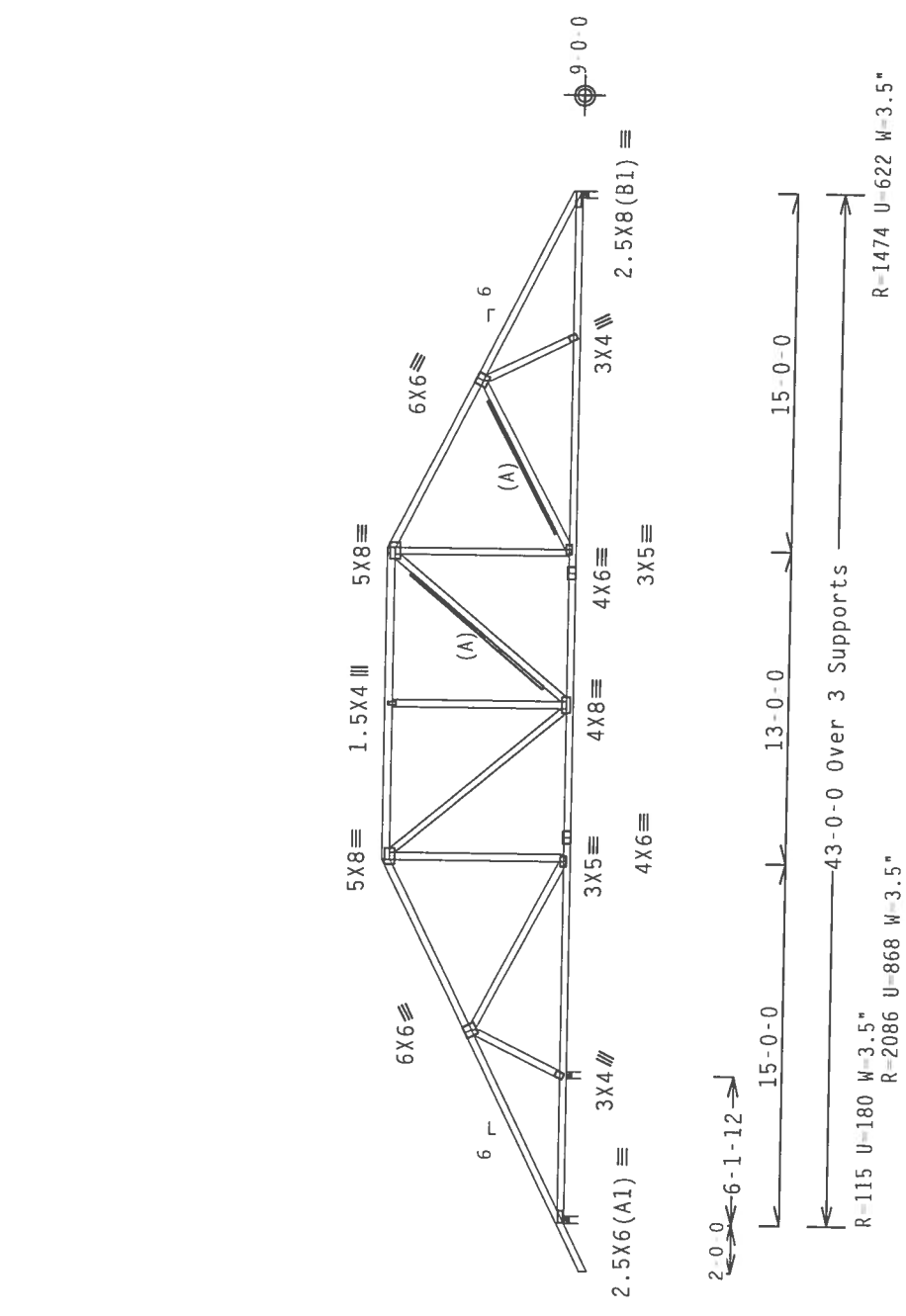
TOP CHORD 2x4 SP #2 DENSE
BOT CHORD 2x4 SP #2 DENSE
WEBS 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL-0.0 psf, wind BC DL-0.0 psf.

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

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

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



Design Crit: TPI-2002 (STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 10000 W. 11TH AVE., SUITE 200, MADISON, WI 53719, AND MECA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., WILSONVILLE, OR 97148) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI DESIGN SPECIFICATIONS, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, CONNECTOR PLATES ARE MADE OF 2018/156A (A-N/15/1) ASTM A505 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DRAWING, APPLY PLATES TO EACH FACE OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2

TC LL	20.0 PSF	FL/-4/-1/R/-	Scale = 1/25"/Ft.
TC DL	10.0 PSF		REF R487 -- 55059
BC DL	10.0 PSF		DATE 06/16/06
BC LL	0.0 PSF		DRW HCUR487 06167062
TOT.LD.	40.0 PSF		HC-ENG JB/AF
DUR.FAC.	1.25		SEQN- 110742
SPACING	24.0"		REF- 15VAA07 704

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Date of /

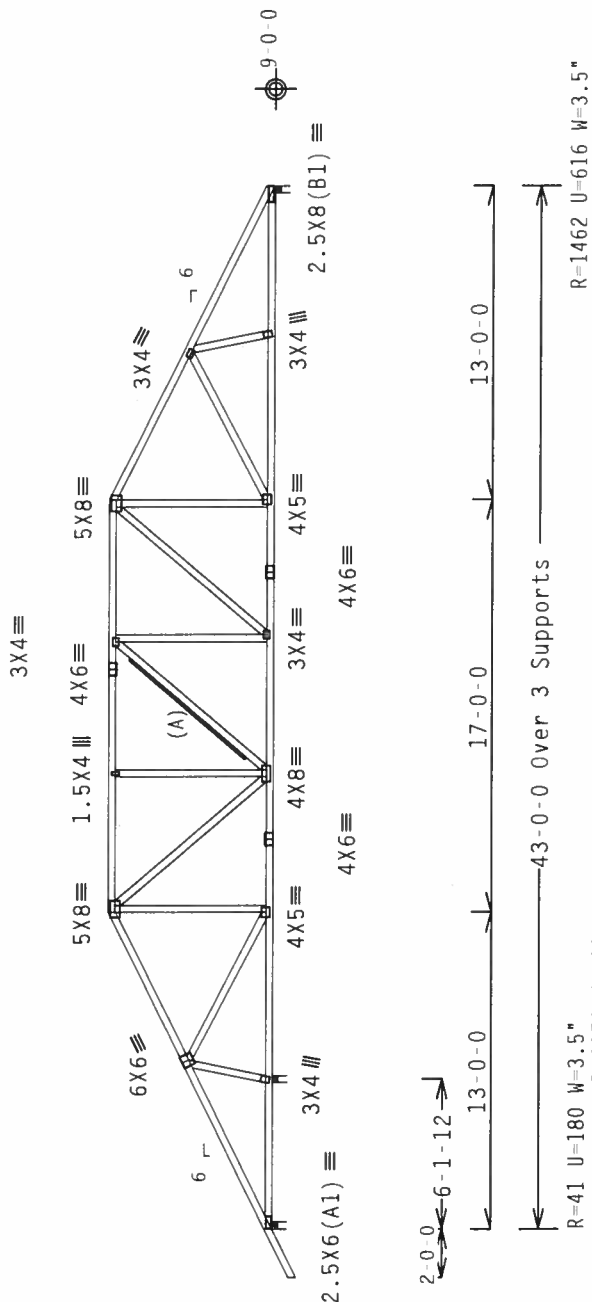
Page # 567

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

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

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



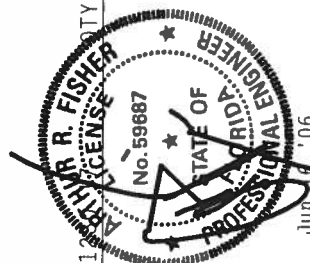
Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$ 7.24.18

Scale = .125"/Ft.

[illegible]

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. AIRLINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSSLERS' SPECIFICATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN STEEL, PLATE AND WELDING MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR. ALL DESIGN STEEL, PLATE AND WELDING MATERIALS ARE MADE OF 2010/16GA. UNLESS OTHERWISE SPECIFIED, POSITION PER DRAWINGS FOR ALL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS FOR ALL DRAMING INDICATES FOLLOWED BY (1) SHALL BE PER AMERICAN AS OF JUNE 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMERICAN AS OF JUNE 2002 SEC. 2.



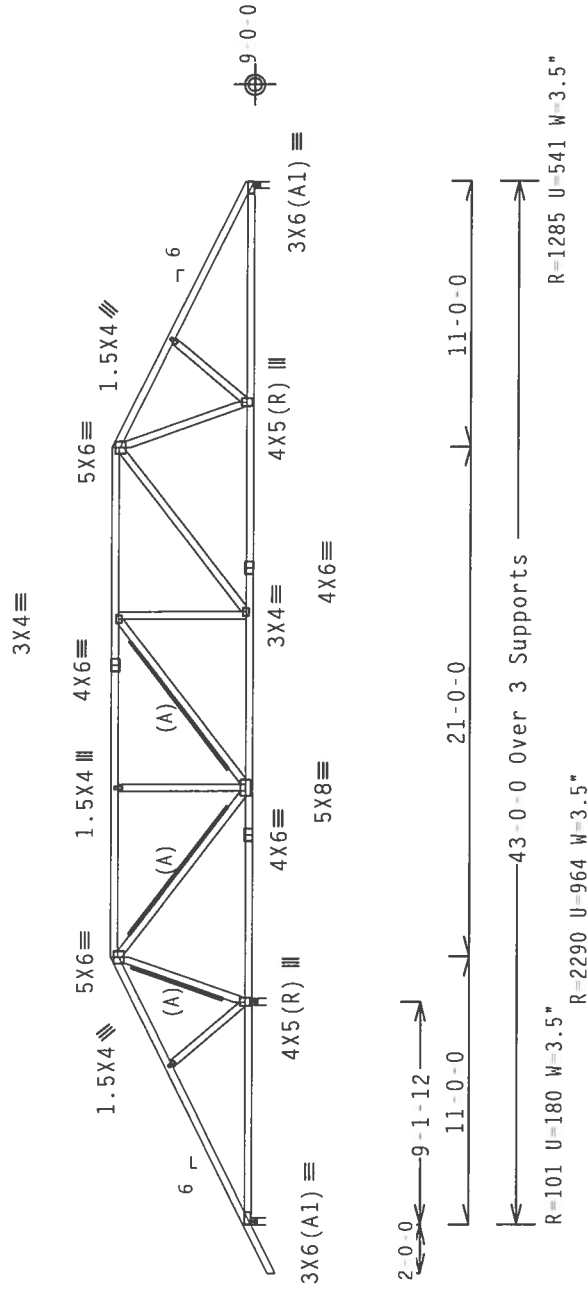
90, 06

DUR.FAC.	1.25
SPACING	24.0"
JRFF	1SY4487 704

1110 mph wind. 15.00 ft mean hgt. ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf

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

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

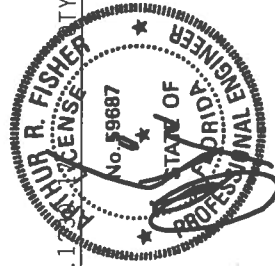


Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$ 7.24.12

Scale = .125"/Ft.

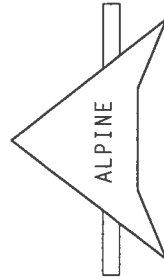
TC LL	20.0	PSF	REF	R487 --	55061
TC DL	10.0	PSF	DATE	06/16/06	
BC DL	10.0	PSF	DRW	HCUSR487	06167064
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	110753	
DUR.FAC.	1.25				



Jun 16, '06

4. ***WARNING*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPIC (TRUSS PACE INSTITUTE, 593 N. OMBRO RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6700 ENTERPRISE LN., WILSONVILLE, OR 97150) FOR ADDITIONAL INFORMATION CONCERNING THESE DIRECTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLYS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED CEILING.

* IMPORTANT * TURN IN A COPY OF THIS DESIGN TO THE INSULATION CONTRACTOR AND THE ALPINE ENGINEERING COMPANY, INC., SHALL NOT BE RESPONSIBLE FOR ANY DETAILATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP-1 OR FABRICATING, HANDLING, SHIPMENT, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AFPA) AND TP-1. ALL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION SHALL BE PLACED ON TOP SURFACE OF TRUSS. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP-1 2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWING THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOP. THESE CONDITIONS APPLY TO ALL TRUSSES.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

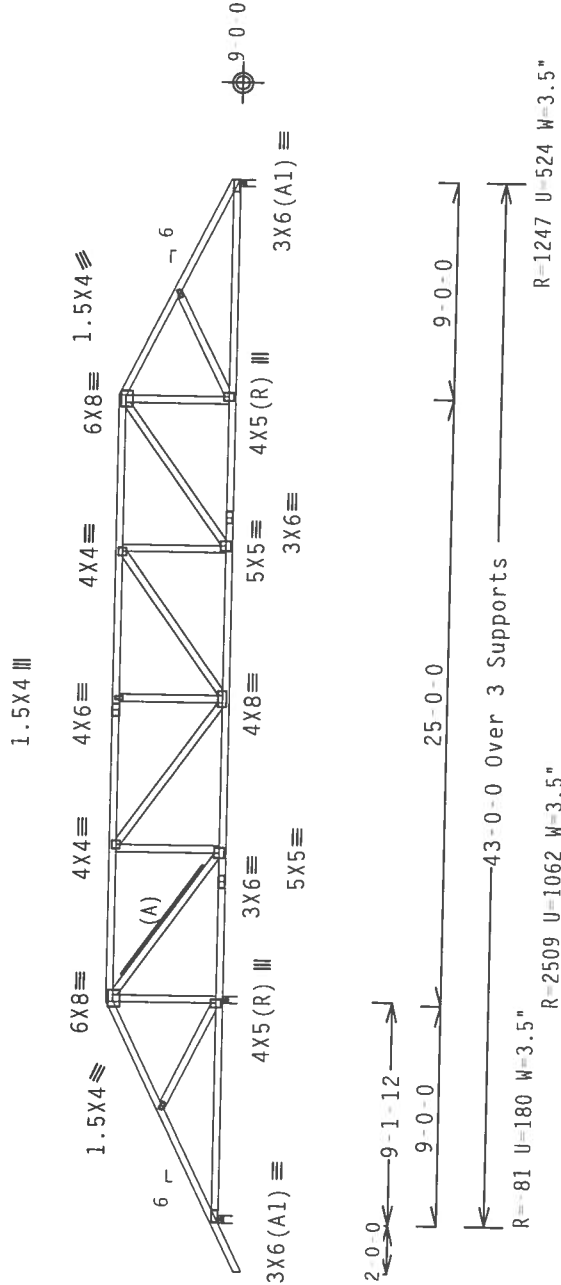
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf

Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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



PLT TYP. Wave

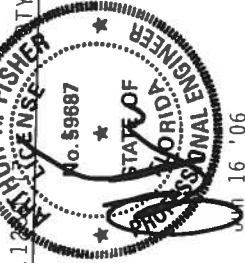
Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0.7)$

7.24.12
FISHES
TY:1 FL/-4/-/R/

Scale = .125"/Ft.

REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLEK INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

TC LL	20.0	PSF	REF	R487 --	55062
TC DL	10.0	PSF	DATE	06/16/06	
BC DL	10.0	PSF	DRW	HCUSR487	06167065
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	110760	
DUR.FAC.	1.25				
SPACING	24.0"		QREF-	1SY487	704

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

on # 567

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

SPECIAL LOADS

- TC - From 62 PLF at -2.00 to 62 PLF at 7.00
- TC - From 126 PLF at 7.00 to 126 PLF at 12.00
- TC - From 62 PLF at 12.00 to 62 PLF at 43.00
- BC - From 4 PLF at -2.00 to 4 PLF at 0.00
- BC - From 20 PLF at 0.00 to 20 PLF at 7.00
- BC - From 44 PLF at 7.00 to 44 PLF at 12.00
- BC - From 20 PLF at 12.00 to 20 PLF at 43.00
- TC - 182 LB Conc. Load at 7.06
- BC - 519 LB Conc. Load at 7.00
- BC - 2316 LB Conc. Load at 11.94

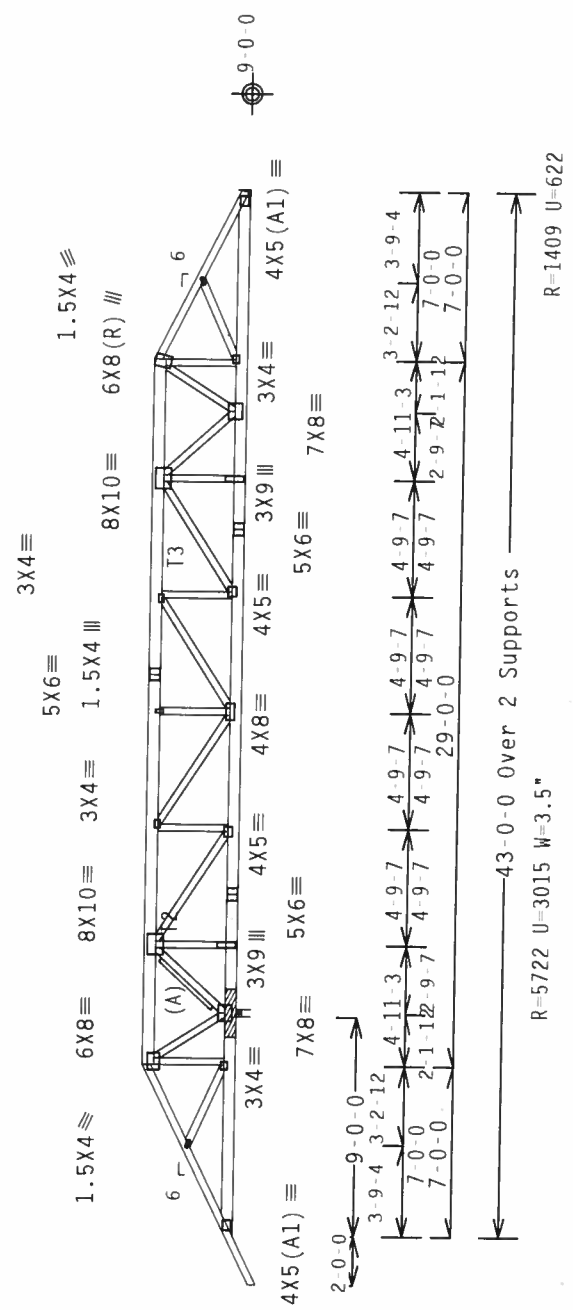
Bearing blocks: Nail type: 10d Common (0.148"x3", min.) nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
1 9.000' 1 24" 22 Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

(A) 2x6 SP #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. Creep increase factor for dead load is 1.50.



Top chord 2x8 SP SS :T1, T5 2x4 SP #2 Dense:

Bot chord 2x8 SP SS

Webs 2x4 SP #3 :W3, W13 2x4 SP #2 Dense:

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

#1 hip supports 7-0-0 jacks with no webs.

Calculated vertical deflection is 0.69" due to live load and 1.11" due to dead load at $X = 22-8-0$.

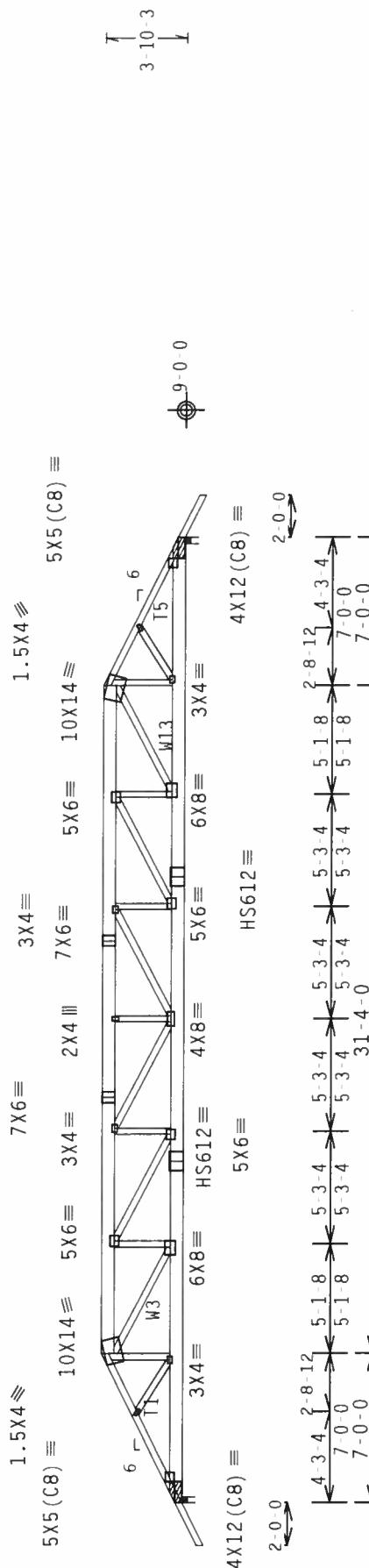
Bearing blocks: Nail type: 10d Common (0.148"x3", min.) nails
 BRG X-LOCK #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
 1 0.000 1 12" 8 Match Truss
 2 45.042 1 12" 8 Match Truss

Bearing block to be same size and species as bottom chord.
 Refer to drawing CNRBGLK1103 for additional information.

Calculated horizontal deflection is 0.13" due to live load and 0.21" due to dead load.

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

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.



45-4-0 Over 2 Supports

R=3853 U=1618 W=3.5"

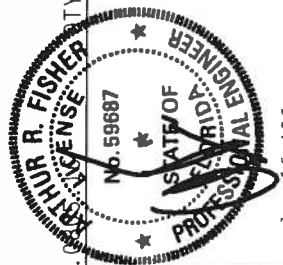
Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0)$$

Scale = .125" / Ft.

[illegible]

****IMPORTANT****—TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR (STRUCTURES, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. THE TRUSS SHALL BE FABRICATED IN THE UNITED STATES OF AMERICA, AND ALL MATERIALS SHALL BE DOMESTICALLY PRODUCED PLATES TO EACH FACE OF FLOORS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT OF THIS PROJECT, THE DESIGNER AND USER OF THIS CONSENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER AMES A3 OF TPI 2002 SEC. 3.



Jun 16 '06

Alpine Engineered Products, Inc.
1950 Money Drive
Haines City, FL 33844

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

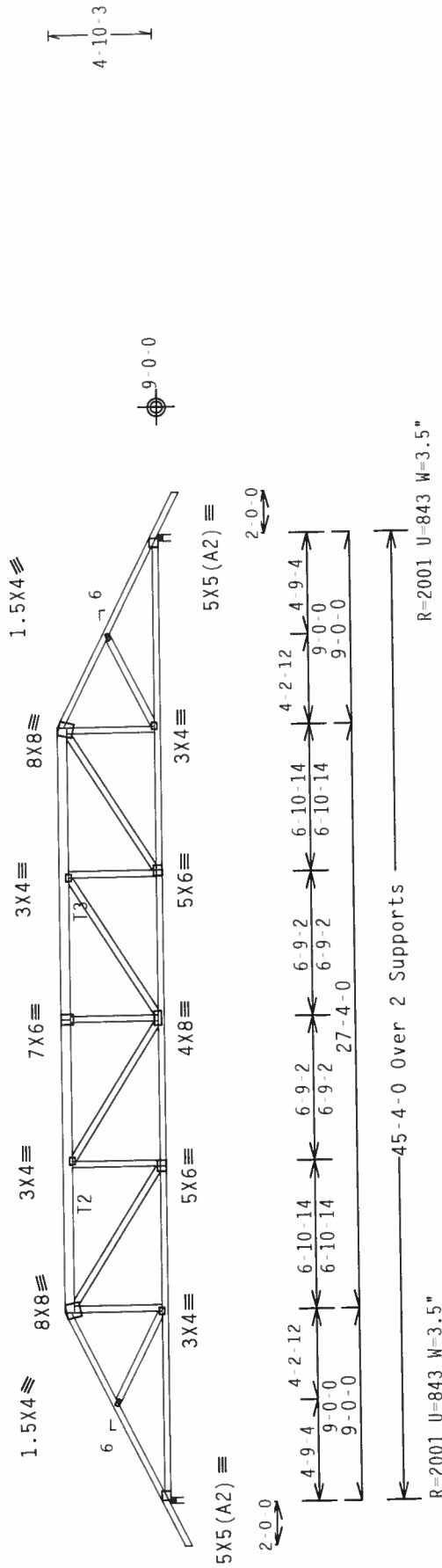
Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.

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

110 mph wind, 11.10 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.04.00

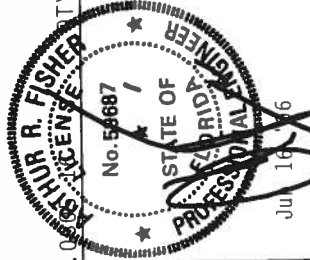
Scale = .125"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENTS) FOR INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDRIO DR., SUITE 200, MADISON, WI 53718) AND NITA (NATIONAL INSTITUTE OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53718). ALL TRUSSES MUST BE INSPECTED AND APPROVED BY A TRUSS SPECIALIST PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/10/16GA (N-H 5/8) ASH 6053 GRADE 40/60 (N-H 5/8) GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, RESISTION PER DRAWINGS FIGS. 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS IN TPI 1-2002, SECTION 1.2.1. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT



Alpine Engineered Products, Inc.



TC LL	20.0 PSF	REF	R487 - 55065
TC DL	10.0 PSF	DATE	06/16/06
BC DL	10.0 PSF	DRW	HCUSR487 06167060
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SECN	45963
DUR.FAC.	1.25		

(5 447 GARY JOHNSON LAW - B3)

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

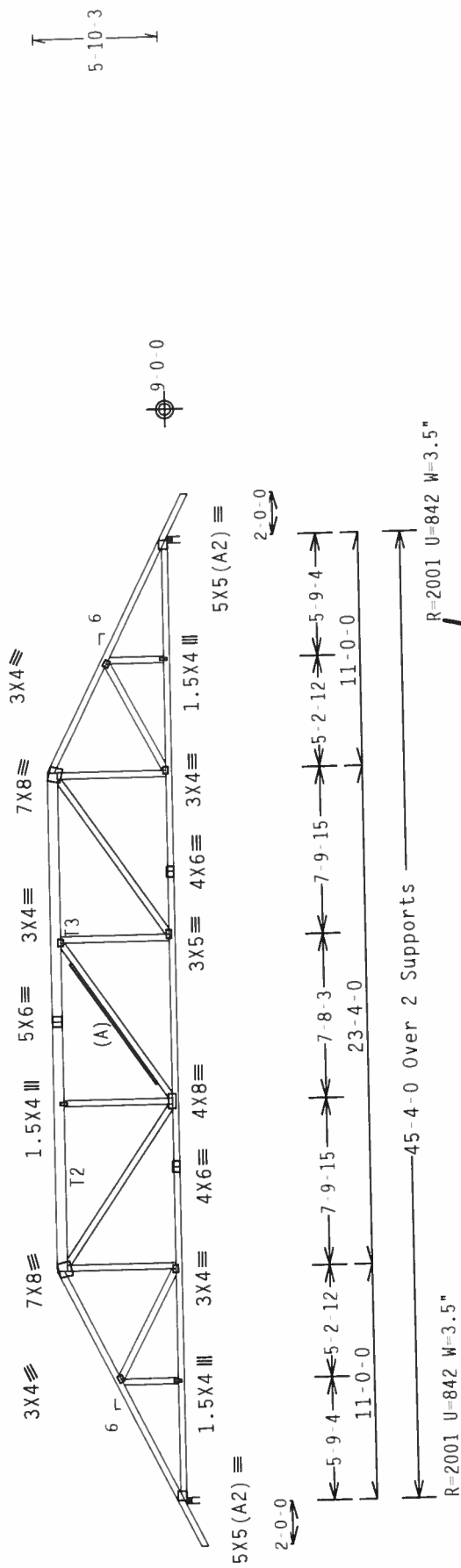
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

110 mph wind, 11.60 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

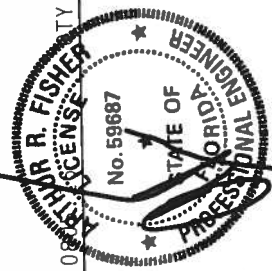
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.04.08

Scale = .125"/Ft.

TC LL	20.0 PSF	REF	R487 --	55066
TC DL	10.0 PSF	DATE	06/16/06	
BC DL	10.0 PSF	DRW	HCUSR487	06167065
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEQN	45976	
DUR.FAC.	1.25			



ALPINE ENGINEERING
R. FISHER
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 16 '06

ALPINE ENGINEERING
R. FISHER
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 16 '06

PLT TYP. Wave



	Top chord	2x6 SP	#2	T1	T6	2x4 SP	#2 Dense:
Bot chord	2x4 SP	#2 Dense					
Webbs	2x4 SP	#3					

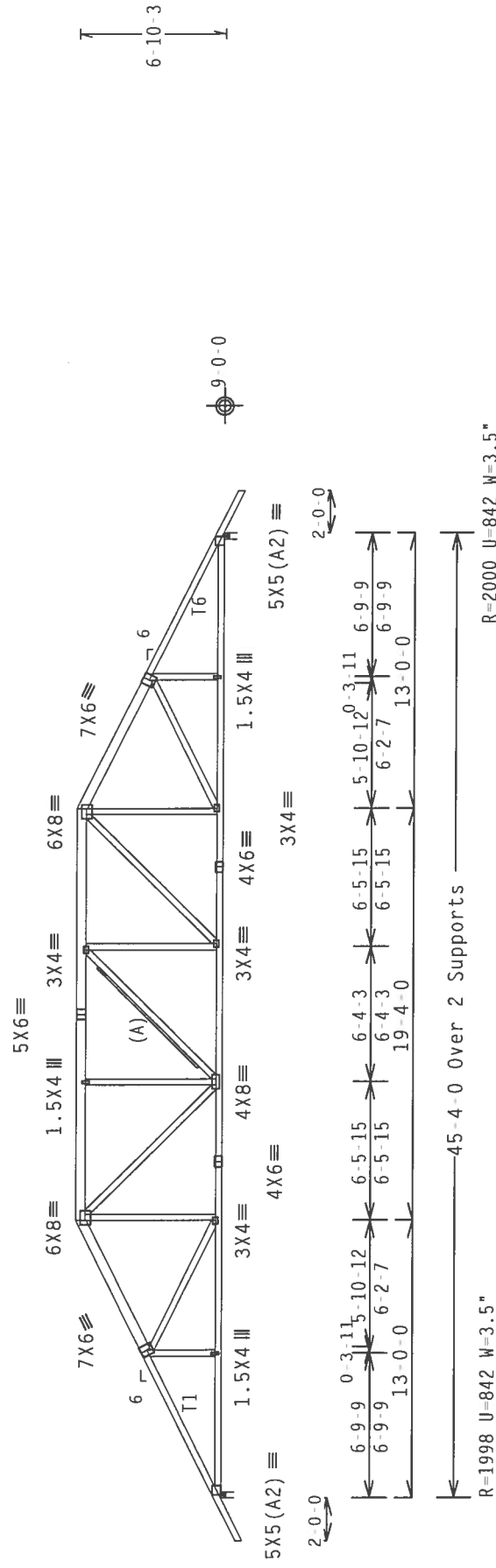
110 mph wind, 12.10 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT 11, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

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

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

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.

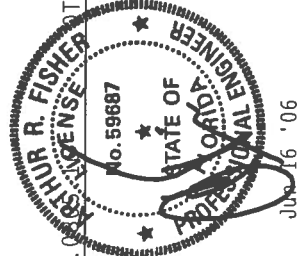


PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

TC LL	20.0	PSF	REF	R487 -	55067
TC DL	10.0	PSF	DATE	06/16/06	
BC DL	10.0	PSF	DRW	HCUSR487	06167074
BC LL	0.0	PSF	HC-ENG	DF/AF	
TOT.LD.	40.0	PSF	SEON-	45991	
DUR.EAC.	1.25				



110 mph wind,
within 6.50 ft
BC DL=0.0 psf.

In lieu of strict OC.

WARNING: Furni
Special care m
of trusses. Se

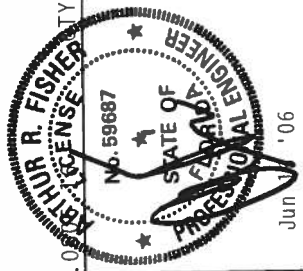


Scale = .125"/Ft.

TC LL	20.0 PSF	REF	R487--	55068
TC DL	10.0 PSF	DATE	06/16/06	
BC DL	10.0 PSF	DRW	HCUSR487	06167075
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEQN-	46000	
DUR.FAC.	1.25			

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, MODELING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 583 KETTER DR., SUITE 200, MADISON, WI 53719) AND WOOD (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE IN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. TRUSS IN COM. OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (A13/574) AND K/S 5.1 GALV STEEL CONNECTOR PLATES ARE MADE OF 2010/16GA (N/15/74) THIS DESIGN. POSITION PER DRAWINGS 16GA 2 PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, A SEAL ON THIS INSPECTION OF PLATES FOLLOWED PROFESSIONAL ENGINEERING. SEE PER THE ANNEX A3 OF TP11 2002 SEC.3



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Aluma Engineered Products Inc

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

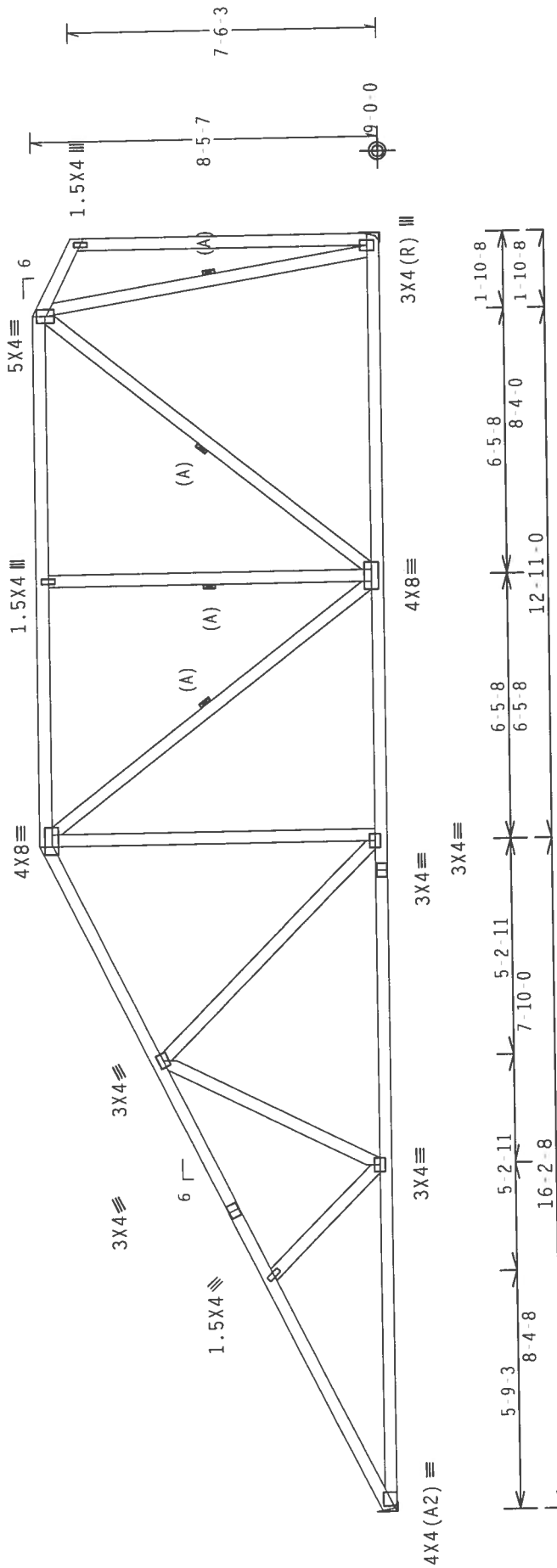
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 13.40 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



31-0-0 Over 2 Supports

R=1282 U=515

R=1271 U=559

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.04.08

Scale = .25"/Ft.

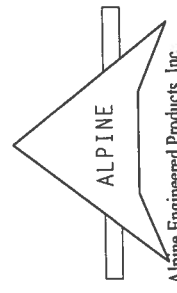
REF	R487	--	55070
DATE	06/16/06		
DRW	HCUSR487		06167070
HC-ENG	DF/AF		
SEQN	46009		

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	

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 503 MADISON, WI 53219, FOR SAFETY PRACTICES. TRUSSES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: 1. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS, NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE DESIGNER PLATES ARE MADE OF 2018/1666 (H-11/5/8) ASTM A653 GRADE 40/60 (H- K/11-5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING. TYP. 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.3. OR THIS. INCLUDING IMITATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT

PLT TYP. Wave



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

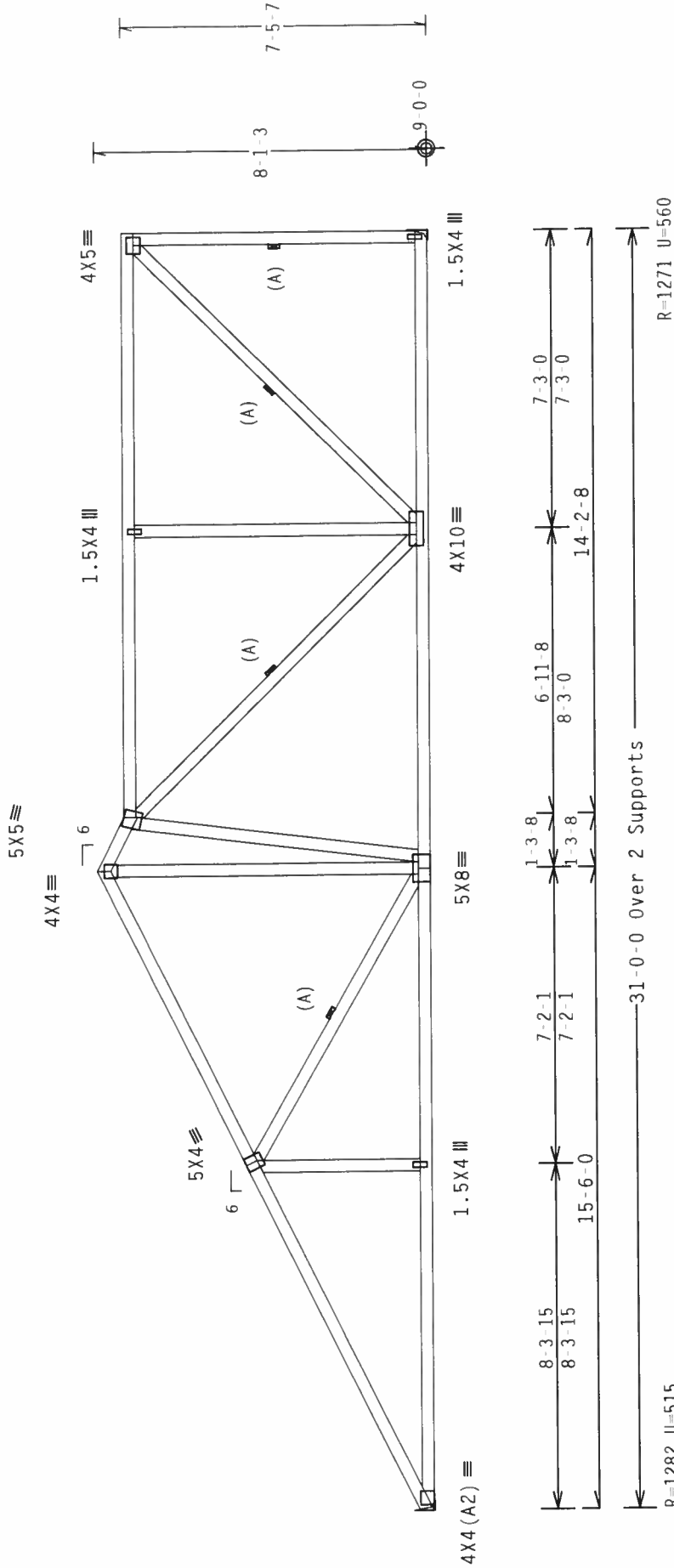
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 13.22 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

Cg/RT=1.00(1.25)/10(0) 7.04.08

Scale = .25"/Ft.

TY:1

FL/-4/-/-R/-

TC LL

20.0 PSF

REF R487 -- 55071

TC DL

10.0 PSF

DATE 06/16/06

BC DL

10.0 PSF

DRW HCUSR487 06167068

BC LL

0.0 PSF

TOT.LD.

40.0 PSF

HC-ENG DF/AF

SEQN-

46026

DUR.FAC.

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PLT TYP. Wave

ALPINE

Alpine Engineered Products, Inc.

Jun 16 '06

Professional Engineer

No. 59887

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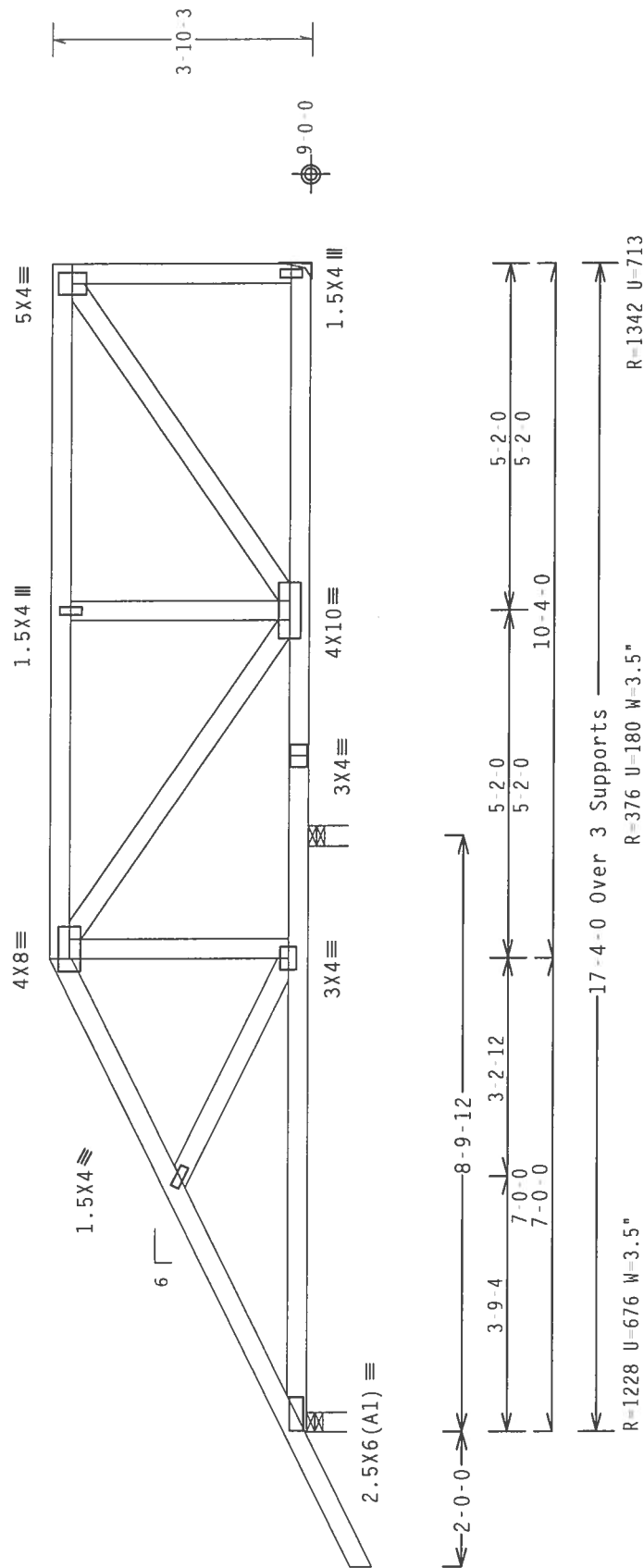
Professional Engineer

Professional Engineer

1110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

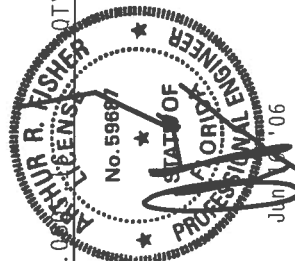
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



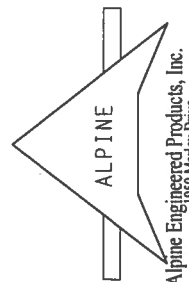
Design Crit: TPI-2002(STD)/FBC

Scale = .375"/Ft.

TC LL	20.0	PSF	REF R487 - 55073
TC DL	10.0	PSF	DATE 06/16/06
BC DL	10.0	PSF	DRW HCUR487 06167061
BC LL	0.0	PSF	HC-ENG DF/AF
TOT.LD.	40.0	PSF	SEQN- 45887
DUR.FAC.	1.25		

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**** IMPORTANT ***** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.
THIS DESIGN SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE PRODUCTS OR CONNECTIONS IN ACCORDANCE WITH THIS DESIGN, INCLUDING THE TRACING OF TIES, SHALL BE THE USER'S RESPONSIBILITY. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF ACI 308R, ACI 309R, AND ACI 308.7. THE ACCEPTED PRACTICES FOR THE DESIGN OF REINFORCED CONCRETE STRUCTURES SHALL APPLY.
CONNECTION PLATES ARE MADE OF 20X18X16GA UH52/A572M A563 GRADE 49/60 (F_y/F_x) GALV STEEL.
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THE DESIGN, POSITION PER DRAWINGS 160A-2 THROUGH 160A-5.
IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMHX K3 OF 1P11-2002 SEC.3,
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT.

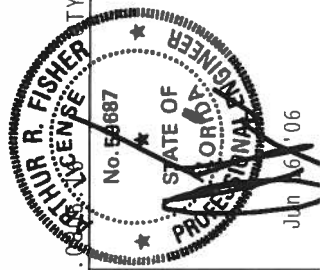
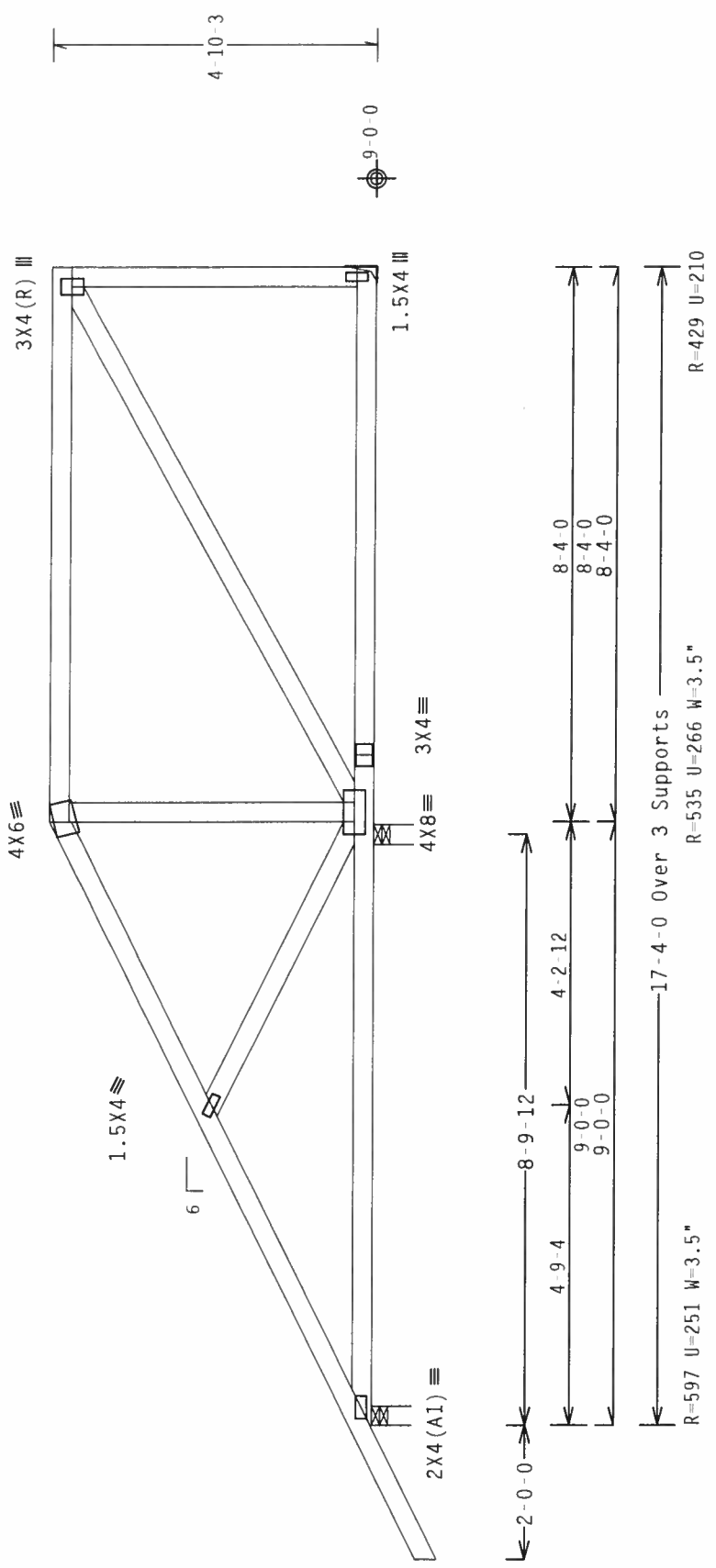


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 11.10 ft mean hgt, ASCE 7-98, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind
BC DL=0.0 psf.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.
Right end vertical not exposed to wind pressure.

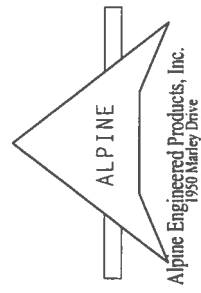
Deflection meets L/240 live and L/180 total load. Creep increase factor
for dead load is 1.50.



Design Crit: TPI-2002 (STD)

TC LL	20.0 PSF	FL / - / 4 / - / R / -	Scale = .375" / Ft.
TC DL	10.0 PSF		REF R487 -- 55074
BC DL	10.0 PSF		DATE 06/16/06
BC LL	0.0 PSF		DRW HCUSR487 06167062
TOT. LD.	40.0 PSF		HC-ENG DF / AF
DUR. FAC.	1.25		SEQN- 45908

PLT TYP. Wave



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'AMORE DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

****IMPORTANT**** UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING HANDLING, SHIPPING, INSTALLING AND BRACING. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (N/A/5/8) ASTM A653 GRADE 40/60 (N. K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE USER.

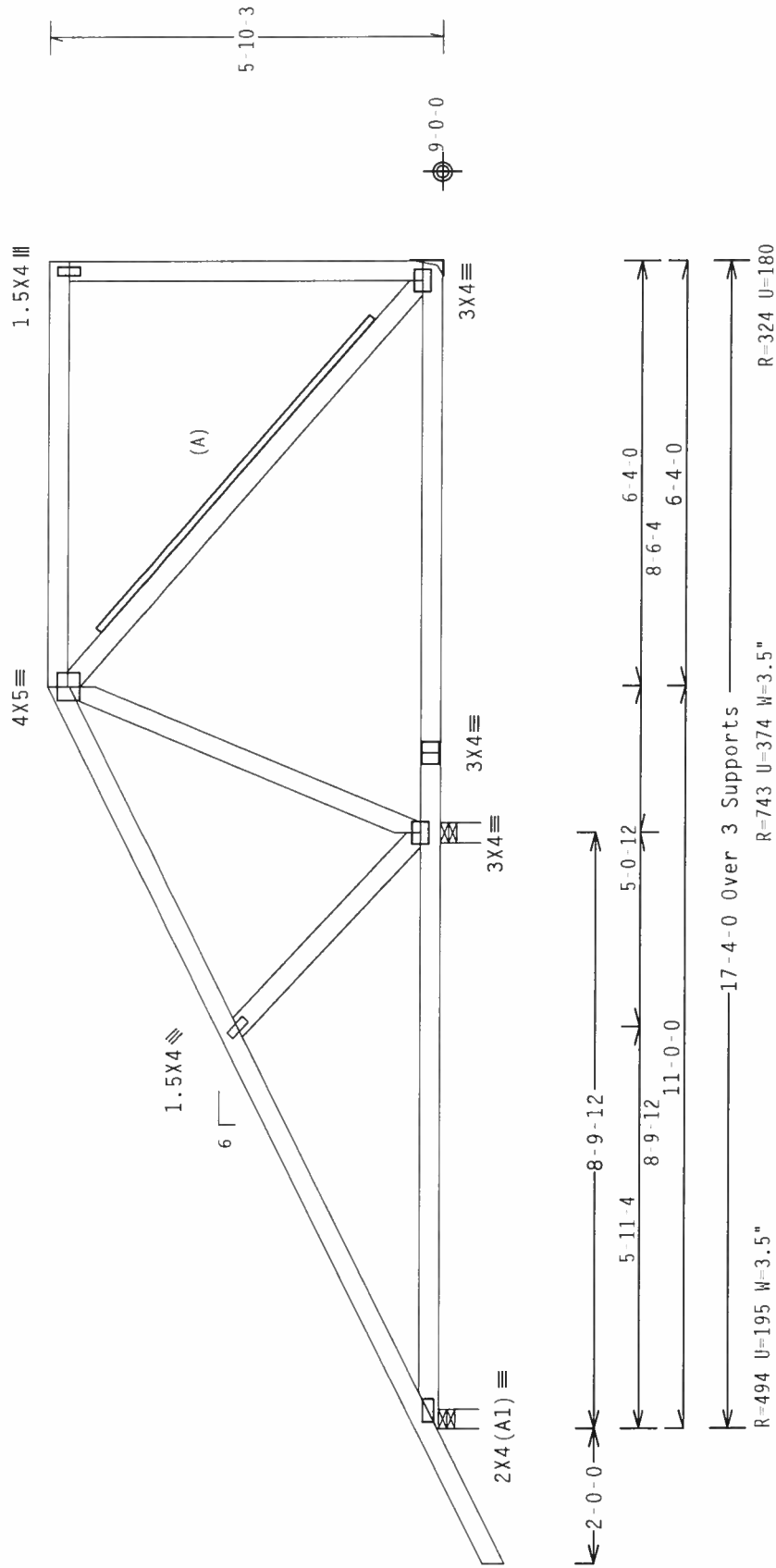
110 mph wind, 11.60 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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

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

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



Design Crit: TPI-2002(STD)

Scale = .375"/Ft.

[illegible]
$$Cq/RT=1.00(1.25)/10(0)$$

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PLT TYP. Wave

***WARNING:** TRUSSES REQUIRE EXTENSIVE CARE IN POSITIONING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES-103 BUILDING COMPONENT SPECIFICATION SHEET FOR CRASS PLATING COMPANY, INC., 583 D'ORVILLE DR., SUITE 200, MADISON, WI 53719, AND NICA (WOOD TRUSS) CO., 600 W. MICHIGAN AVE., SUITE 100, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO THESING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED SUBSTRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REF R487 -- 55075

DATE 06/16/06

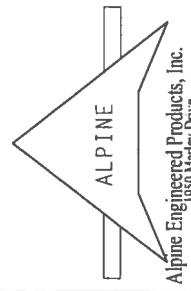
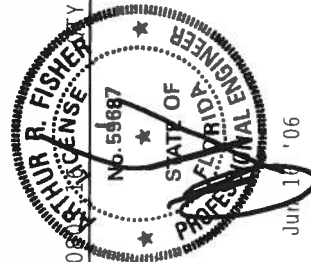
DRW HCUSR487 06167063

HC-ENG DF/AF

SEON- 45920

DUR.FAC. 1.25

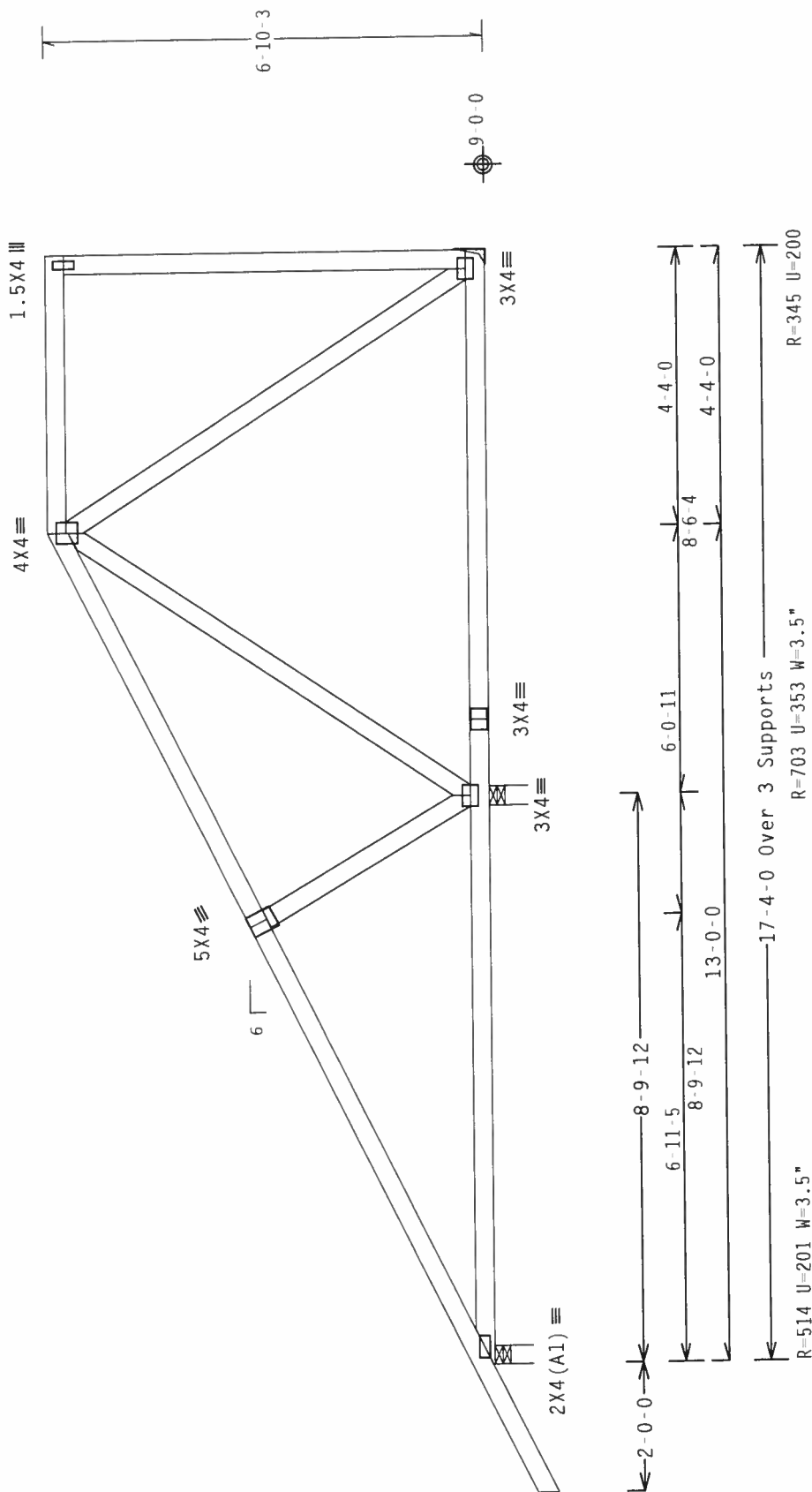
Jun 18 '06



110 mph wind, 12.10 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

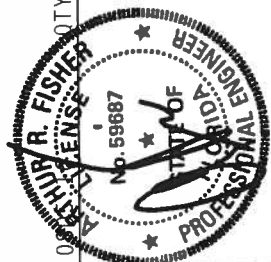
110 mph wind, 12.10 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



Design Crit: TPI-2002(STD)

 $Cq/RT=1.00(1.25)/10(0) \quad 7.0$
$$\text{Scale} = .375''/\text{Ft.}$$

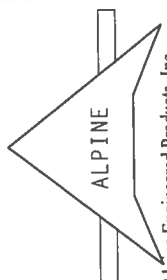
TC LL	20.0 PSF	REF R487 -- 55076
TC DL	10.0 PSF	DATE 06/16/06
BC DL	10.0 PSF	DRW HCU8R487 06167064
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN- 45930
DUR.FAC.	1.25	



Jun 16 '06

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. 583
 1. BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TRUSS PLATE INSTITUTE, INC., 583
 2. TRUSS MANUFACTURING PRACTICES, PUBLISHED BY TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN.,
 3. WASHINGTON DR., SUITE 100, MADISON, WI 53719, AND MICA WOOD TRUSS SYSTEMS, 1000 WOOD TRUSS DR.,
 4. MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS UNLESS OTHERWISE INDICATED.
 5. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
 6. RIGID CEILING.

*****IMPORTANT***** URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THE PROVISIONS OF THIS WARNING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE CODES AND STANDARDS. (NDS, HANDBOOK, TYPICAL DESIGN SPEC., BY AIAA) AND TPI. APPLY CONNECTOR PLATES AS SHOWN. (NDS, HANDBOOK, TYPICAL DESIGN SPEC., BY AIAA) AND TPI. STEEL PLATES TO EACH END OF TRUSS AND JOINTS. (NDS, HANDBOOK, TYPICAL DESIGN SPEC., BY AIAA) AND TPI. SEAL ON THIS JOINT. (NDS, HANDBOOK, TYPICAL DESIGN SPEC., BY AIAA) AND TPI. 2002 SPEC.3 A SEAL ON THIS JOINT. (NDS, HANDBOOK, TYPICAL DESIGN SPEC., BY AIAA) AND TPI. 2002 SPEC.3



Alnine Engineered Products, Inc.

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3

Bearing blocks: Nail type: 10d Common (0.148"x3", min.) nails
BRG X LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 8.667' 1 12" 4 Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

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

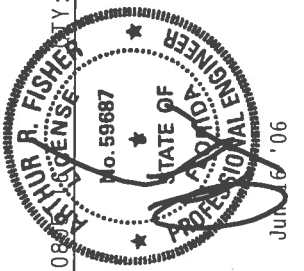
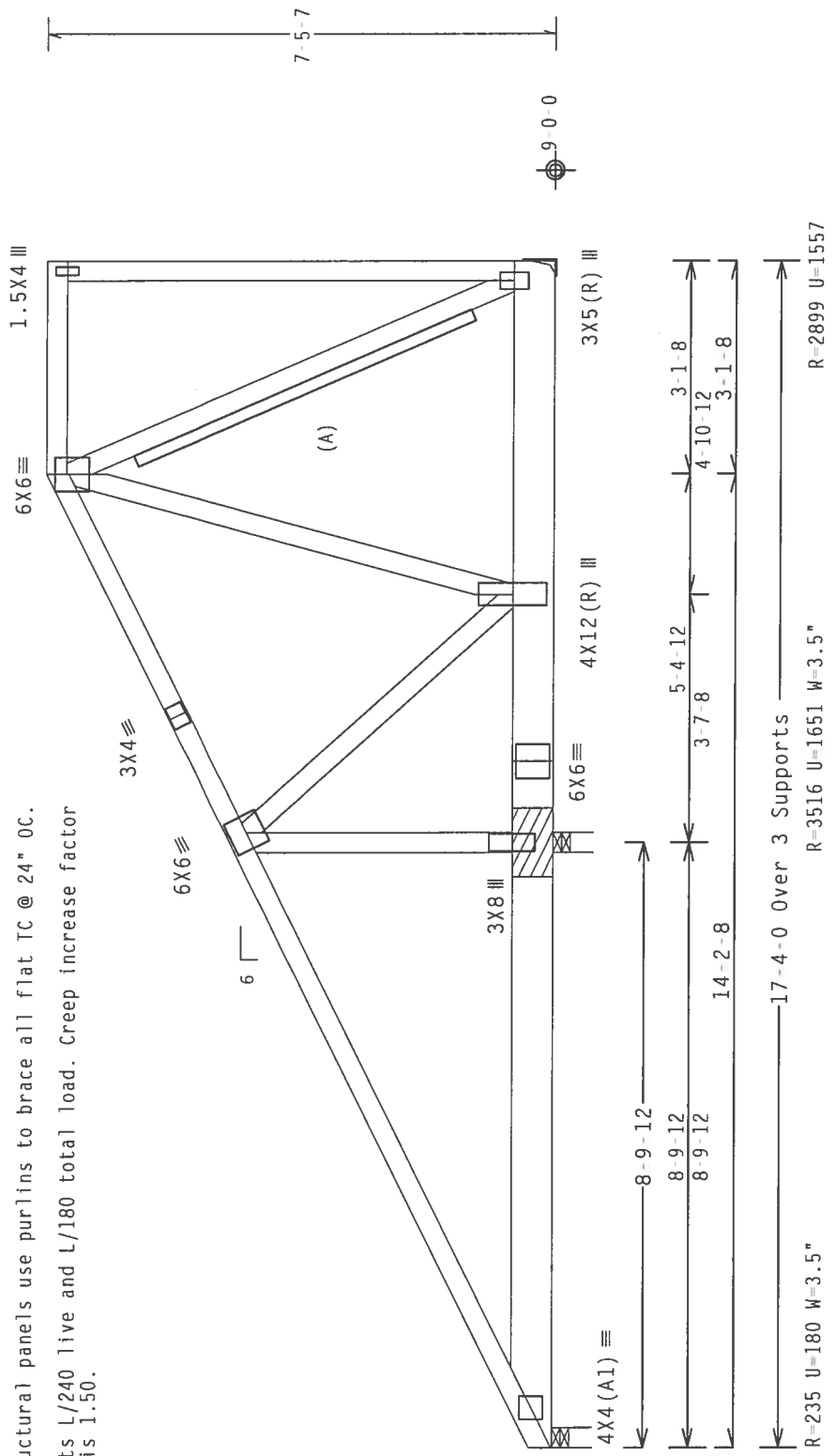
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.
Deflection meets L/240 live and L/180 total load. Creep increase factor
for dead load is 1.50.

SPECIAL LOADS

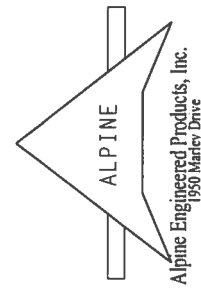
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 17.33
BC - From 20 PLF at 0.00 to 20 PLF at 17.33
BC - 1409 LB Conc. Load at 10.27
BC - 1271 LB Conc. Load at 12.27, 14.27, 16.27

110 mph wind, 15.00 ft mean hgt. ASCE 7-98, CLOSED bldg. Located
anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0
psf.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave	Design Crit: TPI-2002 (STD) / FBC	Cq/RT=1.00(1.25)/10(0)	7.04.08	FL / - / 4 / - / R / -	Scale = .375" / Ft.
TC LL	20.0 PSF	REF	R487 -	55077	
TC DL	10.0 PSF	DATE	06/16/06		
BC DL	10.0 PSF	DRW	HCUSR487	06167067	
BC LL	0.0 PSF	HC-ENG	DF / AF		
TOT.LD.	40.0 PSF	SEQN	46117		
DUR.FAC.	1.25				



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ORFORD DR., SUITE 208, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE SPECIFICATIONS OF THE TPI OR WICA STANDARDS, OR TO THE SPECIFICATIONS OF THE ALPINE ENGINEERED PRODUCTS, INC. SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE SPECIFICATIONS OF THE TPI OR WICA STANDARDS, OR TO THE SPECIFICATIONS OF THE ALPINE ENGINEERED PRODUCTS, INC. SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN.

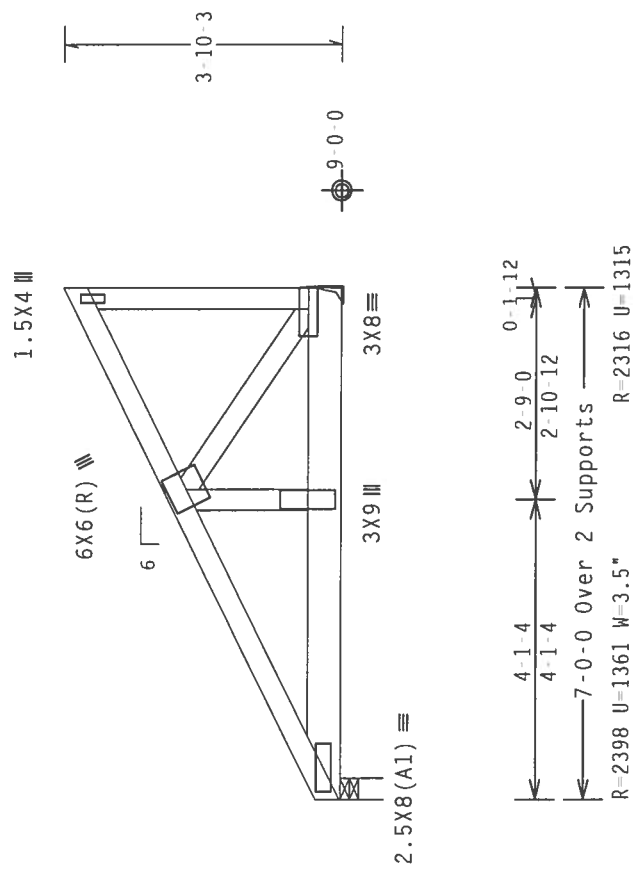
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3

Girder supports 31'-0" span to BC one face and 2'-0" span to TC/BC split opposite face.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



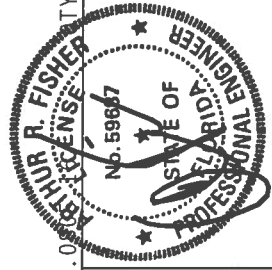
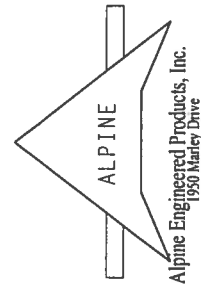
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.04.08

PLT TYP. Wave

Scale = .375" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDRETO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, WHICH SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLER SHALL BE RESPONSIBLE FOR THE INSTALLATION. CONNECTION PLATES ARE MADE OF 2017B716GA (A 1/2"X1/2" ASTM A653 GRADE 40/50 (A 50) GALV. STEEL. APPLIED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604, 2 AND 3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN.



TC LL	20.0 PSF	REF R487 -	55078
TC DL	10.0 PSF	DATE	06/16/06
BC DL	10.0 PSF	DRW HCUSR487	06167069
BC LL	0.0 PSF	HC-ENG DF/AF	
TOT.LD.	40.0 PSF	SEQN	46078
DUR.FAC.	1.25		

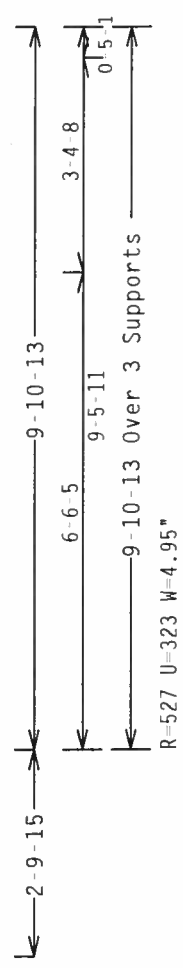
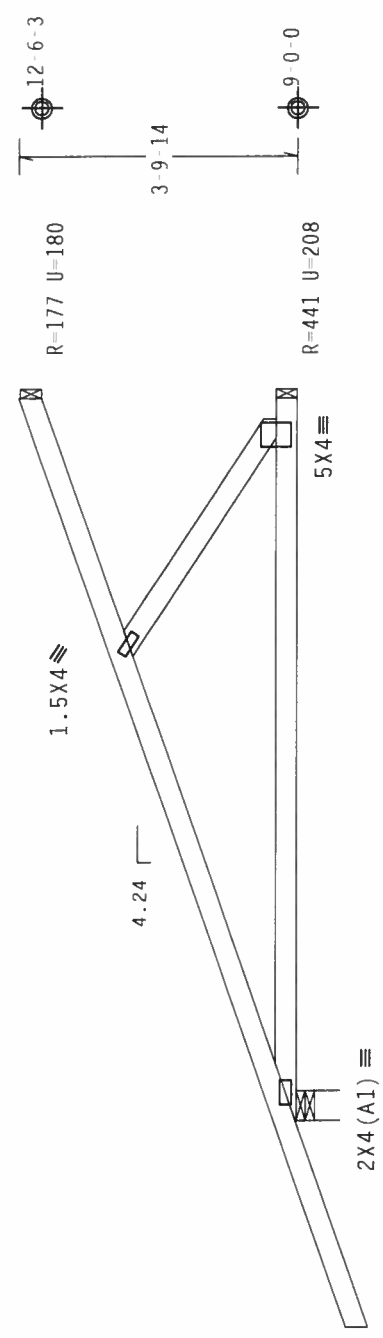
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Hipjack supports 7'-0" set back jacks with no webs.

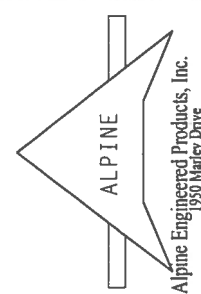
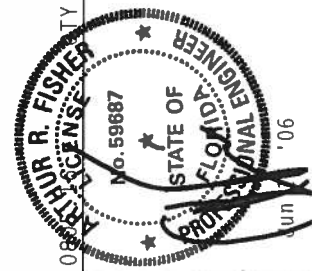
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	TY:6	FL/-/4/-/-/R/-	Scale = .375"/Ft.
Cq/RT=1.00(1.25)/10(0) 7.04.08			
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			
REF R487 - 55079			
DATE 06/16/06			
DRW HCUSR487 06167076			
HC-ENG DF/AF			
SEQN- 45877			



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRI DR., SUITE 200, MADISON, WI 53719), AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

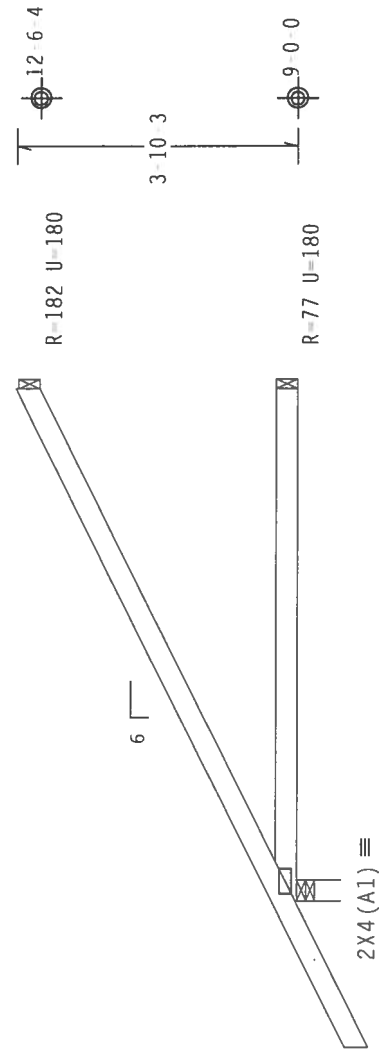
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATION, HANDLING, SHIPPING, BY THE INSTALLER OR USER. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATION, HANDLING, SHIPPING, BY THE INSTALLER OR USER. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATION, HANDLING, SHIPPING, BY THE INSTALLER OR USER. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATION, HANDLING, SHIPPING, BY THE INSTALLER OR USER.

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

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

110 mph wind, 10.60 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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.



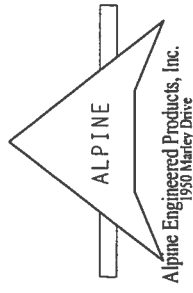
7'-0-0 Over 3 Supports
R-450 U-227 W-3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

Scale = .375" / Ft.

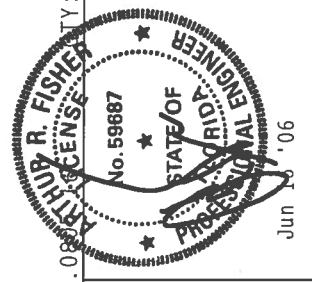
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25

REF	R487 - - 55080
DATE	06/16/06
DRW	HCUSR487 06167057
HC-ENG	DF / AF
SEQN	12808



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDRAKE DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN INFORMATION: WOOD TRUSS COUNCIL OF AMERICA (WICA) AND TPI (TRUSS PLATE INSTITUTE) PROVIDE THE FOLLOWING INFORMATION: ALPINE TRUSSES ARE MADE OF 20/18/1604 (IN U/S/13 ASTM A553 GRADE AD/16 KIN) AND 16/16/1604 (IN U/S/13 ASTM A553 GRADE AD/16 KIN) STEEL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN.

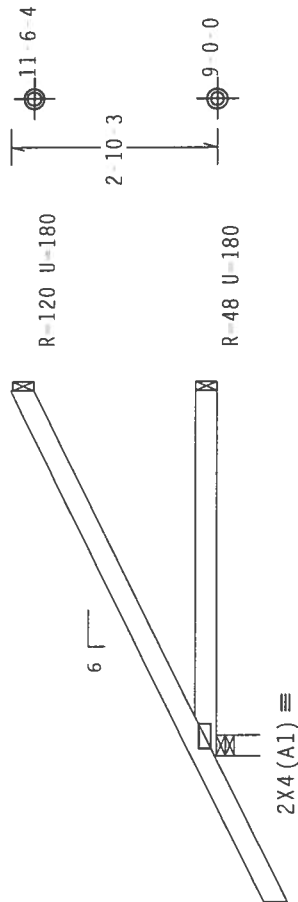


Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

110 mph wind, 10.10 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

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


$$\begin{array}{c} \downarrow 2 \\ \downarrow 0 \\ \downarrow 0 \end{array}$$

←5-0-0 Over 3 Supports →
R=377 U=196 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Scale = .375" / Ft.



Alpine Engineered Products, Inc.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS ASSOCIATION, 10000 W. 10TH AVENUE, SUITE 200, MADISON, WI 53719, AND MICA (WOOD TRUSS DESIGN CODE), PUBLISHED BY THE TRUSS ASSOCIATION, 10000 W. 10TH AVENUE, SUITE 200, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE _____ ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MIN. NATIONAL DESIGN SPEC. (BY AISC) AND TPI. ALPINE TRUSSES ARE MANUFACTURED TO THE FOLLOWING SPECIFICATIONS: GRADE 40 (40K) (A7-70/51) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE NOTED, TOP AND BOTTOM PERMANENT SEAL ON THIS. ANY INSPECTION OF PLATES FOLLOWED BY (1). SHALL BE PER ANNEX A3 OF TPI 2002 SEC 3. UNLESS OTHERWISE INDICATED, TRUSS SHALL BE CONSIDERED TO BE A PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPANY/DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY.

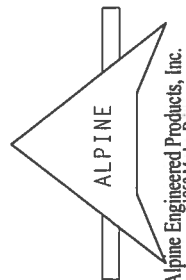
Mo. 59887

STATE OF

PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R487 -	55081
TC DL	10.0 PSF	DATE	06/16/06	
BC DL	10.0 PSF	DRW	HCUSR487	06167077
BC LL	0.0 PSF	HC-ENG	DF /AF	
TOT.L.D.	40.0 PSF	SEQN-	13300	
DUR.EAC.	1.25			

June 13 '06

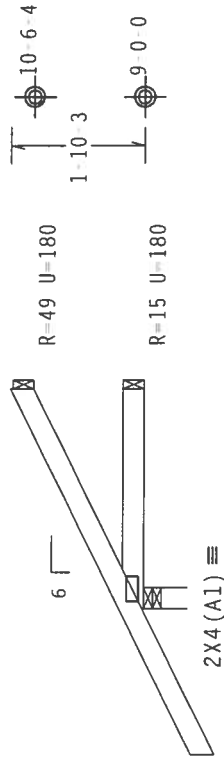


Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

110 mph wind, 9.60 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

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



700

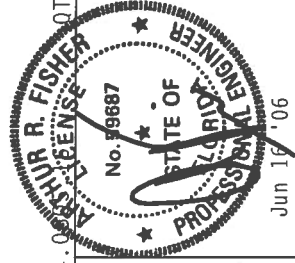
3 - 0 - 0 Over 3 Supports
R-317 U-180 W-3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

03-17-2018
WILSON COUNTY, FISHER PENNS.
QTY: 12 FL / - / 4 / - / R / -
Scale = .375" / Ft.

TC LL	20.0	PSF	REF	R487 --	55082
TC DL	10.0	PSF	DATE	06/16/06	
BC DL	10.0	PSF	DRW	HCUSR487	06167078
BC LL	0.0	PSF	HC-ENG	DF/AF	
TOT.LD.	40.0	PSF	SEQN-	13307	
DUR.FAC.	125				



Jun 16 '06

*WARNING** HUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING TO AVOID BUCKLING OF THE TOP CHORD SHALL HAVE PROPERLY ATTACHED

****IMPORTANT*****TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.
PROVIDE THE FOLLOWING INFORMATION TO THE TRUSS MANUFACTURER:
TRUSS IN CONFORMANCE WITH THE PROVISIONS OF NOS (NATIONAL DESIGN SPEC.) TO BUILD
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC.) BY AFAPA AND IPTI. ALPINE
CONNECTION PLATES ARE MADE OF 2018/16GA (W/H/5/32) ASTM A563 GRADE 40/60 (F./K/I.S) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS POSITION PER DRAWINGS I6GA Z
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AX 4 OF IPTI 2002 SEC.3
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT



Alpine Engineered Products, Inc.
1950 Marley Drive

(5-447 GARY JOHNSON - LAW - J1)

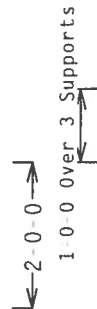
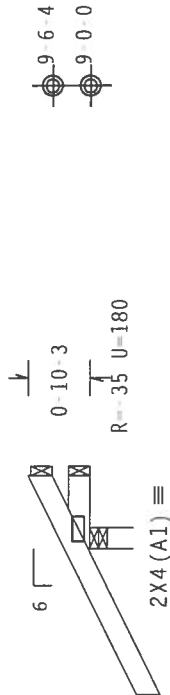
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

110 mph wind, 9.10 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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=110 U=180



R=361 U=227 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

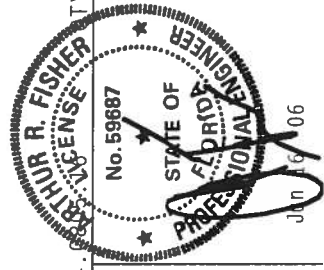
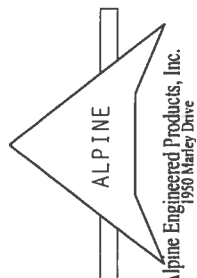
7.04.0

TY:12 FL/-/4/-/R/-

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TRUSSES SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSSES. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. CONNECTOR PLATES ARE MADE OF 2010/16GA IN-H/S/E) ASTM A653 GRADE 40/60 (N. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE CULTRALITY AND USE OF THIS DOCUMENT FOR ANY OTHER PURPOSE IS NOT RECOMMENDED BY TPI.



TC LL	20.0 PSF	REF R487 - 55083
TC DL	10.0 PSF	DATE 06/16/06
BC DL	10.0 PSF	DRW HCUSR487 06167056
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN- 13313
DUR.FAC.	1.25	

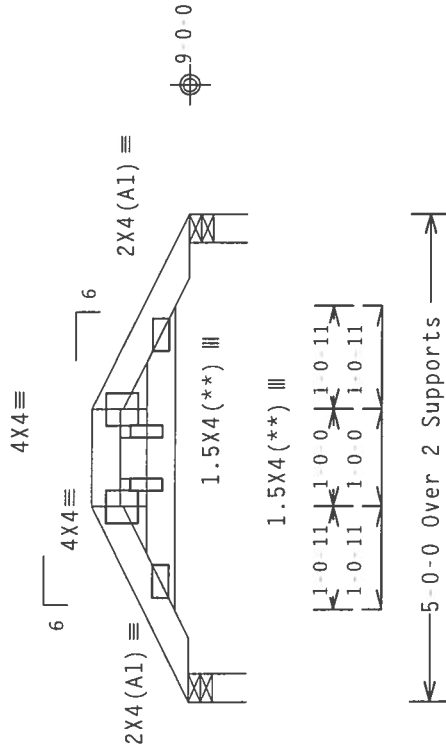
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACK1103 or PIGBACK1103 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.

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

110 mph wind, 9.50 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



R-241 U-180 W-3.5" R-241 U-180 W-3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0)

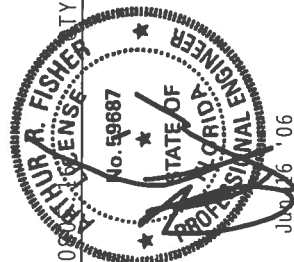
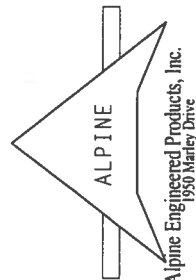
7.04.00

FL/-4/-/-R/-

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXERCISE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS SHOWN SHALL BE RESPONSIBLE FOR THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR ALUMINUM AND STEEL) AND NDS (NATIONAL DESIGN SPEC. FOR WOOD). CONNECTOR PLATES ARE MADE OF 2010/160A (N/A/S/E) ASTM A653 GRADE 40/60 (N/A/S/E) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE USER.

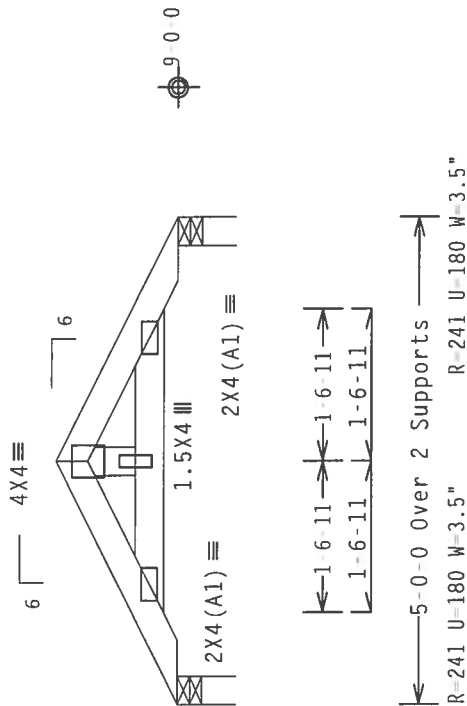


TC LL	20.0 PSF	REF R487 - 55084
TC DL	10.0 PSF	DATE 06/16/06
BC DL	10.0 PSF	DRW HCUSR487 06167072
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN- 46705 REV
DUR.FAC.	1.25	

110 mph wind, 9.63 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.



PLT TYP. Wave

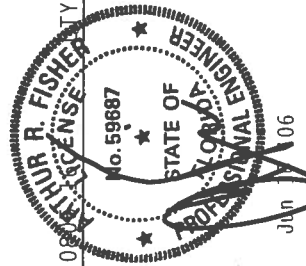
Design Crit: TPI-2002(STD)/FBC

$$\text{Ca}/\text{RT}=1.00(1.25)/10(0) \quad 7.$$

FL 1-141-1-1R1-

Scale = 5"/Ft

TC LL	20.0	PSF	REF R487 - 55085
TC DL	10.0	PSF	DATE 06/16/06
BC DL	10.0	PSF	DRW HCUR487 06167073
BC LL	0.0	PSF	HC-ENG DF/AF
TOT.LD.	40.0	PSF	SEQN- 46708
DUR.FAC.	1.25		



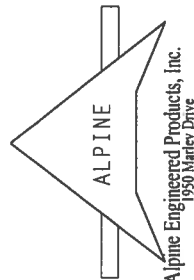
Jun 90

WARNING: THUSSE'S EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BEST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL INSTITUTE OF CONSTRUCTION EDUCATION (NICE) 363 000010R OR - SUITE 200, MADISON, WI 53719, AND NICA (WOOD TRUSS COUNCIL OF AMERICA) 100010R OR - SUITE 200, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID GILLING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPHING ENGINEERED PRODUCTS ASSUMES NO RESPONSIBILITY FOR FABRICATING AND/OR INSTALLING ANY FLUOROCARBON BUILDING SYSTEMS IN CONFORMANCE WITH THIS DESIGN. PROVIDE THE FOLLOWING INFORMATION TO THE CONTRACTOR:

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HUD (NATIONAL DESIGN SPEC., BY AFAPA) AND TPIC. ALPHING CONNECTOR PLATES ARE MADE OF 20/18/16GA. (MIL-H-6953 GRADE 40/60 (W. E/F/H/S)) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, WHEN OVERLAP, LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMBEX AS OF TPIC 2002 SEC-3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR TRUSS COMPONENT



BEARING BLOCK NAIL SPACING DETAIL

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

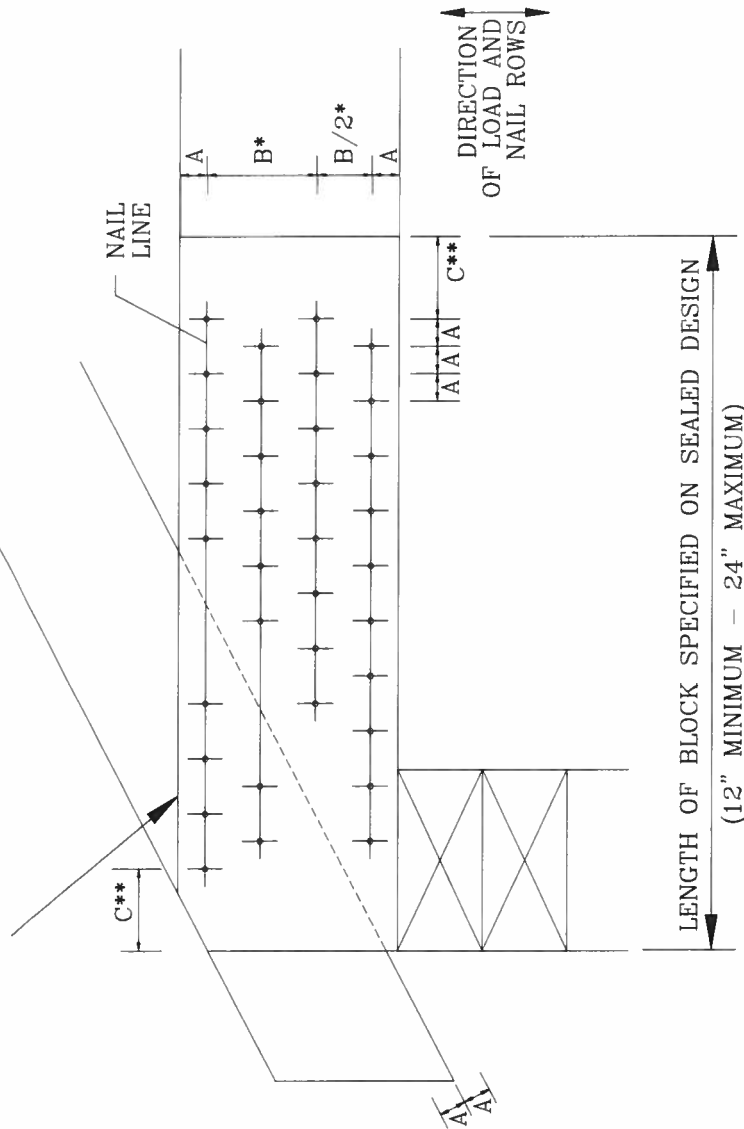
NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"x2.5")	3	6	9	12	15
10d BOX (0.128"x3")	3	5	7	10	12
12d BOX (0.128"x3.25")	3	5	7	10	12
16d BOX (0.135"x3.5")	3	5	7	10	12
20d BOX (0.148"x4")	2	4	5	6	8
8d COMMON (0.131"x2.5")	3	5	7	10	12
10d COMMON (0.148"x3")	2	4	6	8	10
12d COMMON (0.148"x3.25")	2	4	6	8	10
16d COMMON (0.162"x3.5")	2	4	6	8	10
0.120"x2.5" GUN	3	6	8	11	14
0.131"x2.5" GUN	3	5	7	10	12
0.120"x3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
 * SPACING MAY BE REDUCED BY 50%
 ** SPACING MAY BE REDUCED BY 33%

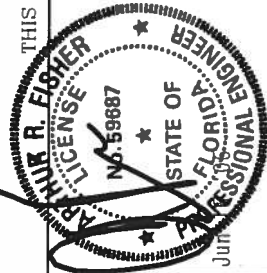
BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (F_c -perp) IS AT LEAST THAT OF THE CHORD.



MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES		
	A	B*	C**
8d BOX (0.113"x2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"x3")	7/8"	1 5/8"	2"
12d BOX (0.128"x3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"x3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"x4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"x2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"x3")	1"	1 7/8"	2 1/4"
12d COMMON (0.148"x3.25")	1"	1 7/8"	2 1/4"
16d COMMON (0.162"x3.5")	1"	2"	2 1/2"
0.120"x2.5" GUN	3/4"	1 1/2"	1 7/8"
0.131"x2.5" GUN	7/8"	1 5/8"	2"
0.120"x3.0" GUN	3/4"	1 1/2"	1 7/8"
0.131"x3.0" GUN	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DINDRIF DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO FOLLOW THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE SPECIFICATIONS FOR TRUSSES, DESIGN CONNECTORS WITH APPLICABLE PROVISIONS OF THE NATIONAL SPEC. BY AFPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/S) ASTM A575 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (S) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING

ALPINE
 ENGINEERED PRODUCTS, INC.
 POMPANO BEACH, FLORIDA

REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGBLK1103
-ENG	SJP/KAR

+ 2X4 CONTINUOUS LATERAL BRACING AT 24" OC MAXIMUM
SPACING. ATTACH TO EACH TOP CHORD WITH (2) 16d NAILS.
BRACING MATERIAL TO BE SUPPLIED AND ATTACHED AT BOTH
ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.

++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.

+++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED
48" OC MAXIMUM.

* * 8/12 MAXIMUM PITCH.

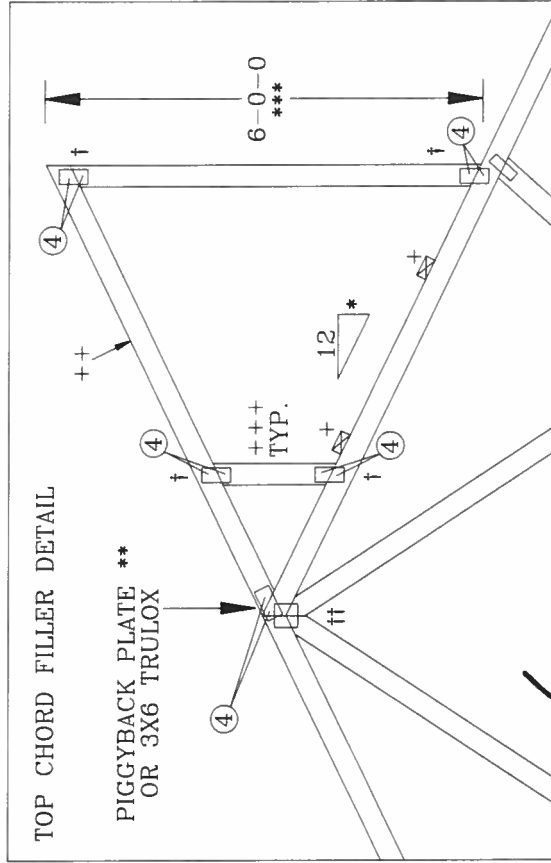
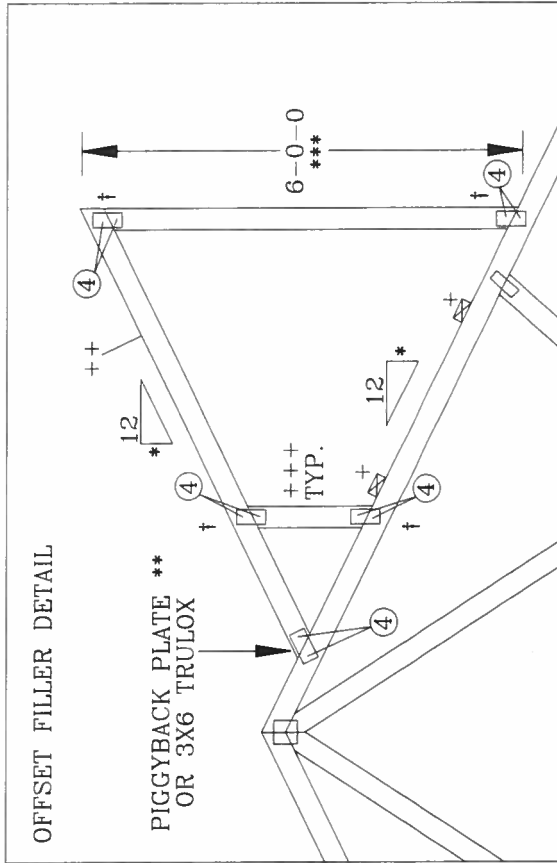
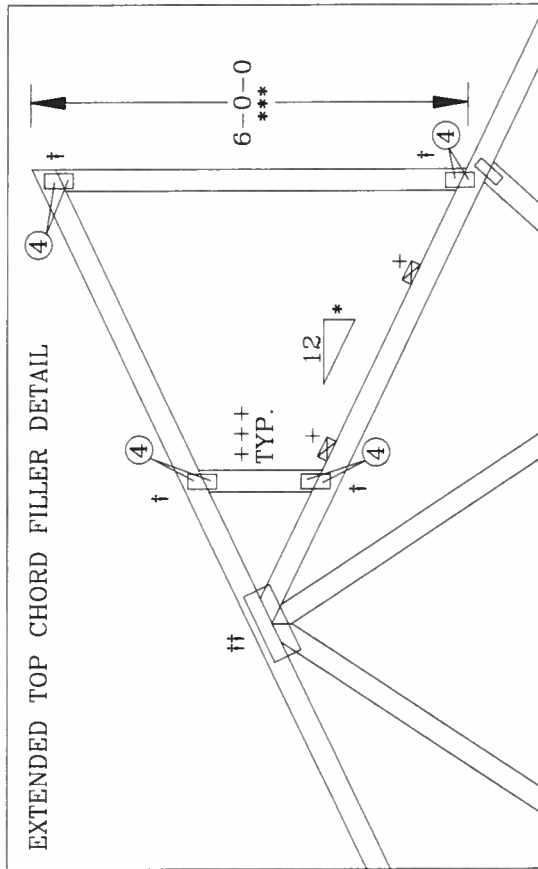
*** 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699
FOR PIGGYBACK SPECIAL PLATE INFORMATION.

*** 6'0" MAXIMUM HEIGHT.

† W2X4 OR 3X6 TRULOX.

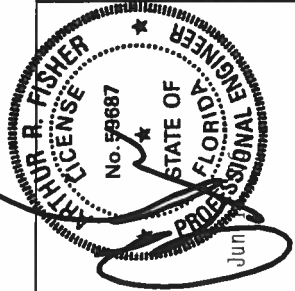
†† REFER TO ENGINEER'S SEALED DESIGN REFERENCE THIS
DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT
SHOWN.

11 GAUGE (0.120")X1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY. SEE DWG 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.



THIS DRAWING REPLACES DRAWING 884,080

TC LL	MAX 30 PSF	REF	TC-FILLER
TC DL	MAX 15 PSF	DATE	11/26/03
BC DL	MAX 10 PSF	DRWG	TCFILLER1103
BC LL	0 PSF	-ENG	SJP/KAR
TOT. LD.	MAX 55 PSF		
DUR. FAC.	1.15 OR 1.33		
SPACING	24.0"		



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS I-003 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLACING INSTITUTE, 583 DUNDORF DR., SUITE 200, MADISON, WI 53719), AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. PIPELINE ENGINEERED PRODUCTS INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. CONTRACTOR SHALL BUILD THE TRUSSES IN CONFORMANCE WITH TPI; DR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BRACING OF TRUSSES), DESIGN CONFORMS WITH TPI. PIPELINE CONNECTOR PLATES ARE MADE OF 2018/16GA. A572M A553 GRADE 40/460 C/K/H/SI GAL V. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY THE PERMANENT POSITIVE CONNECTION DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE FEASIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

BOTTOM CHORD FILLER DETAIL

* OPTIONAL INTERIOR OR CANTILEVER BEARING. MINIMUM PLATE SIZES (1X3 WAVE) MAY BE USED IF BEARING IS OMITTED. WEDGE OR VERTICAL MEMBER MUST COINCIDE WITH BEARING LOCATION.

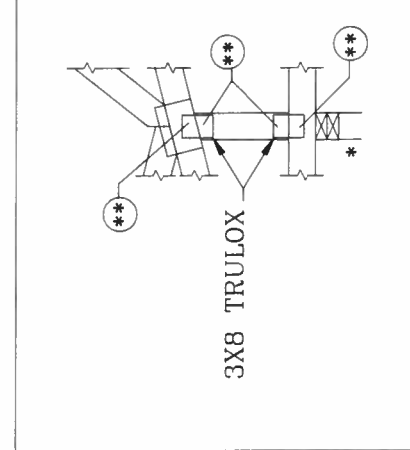
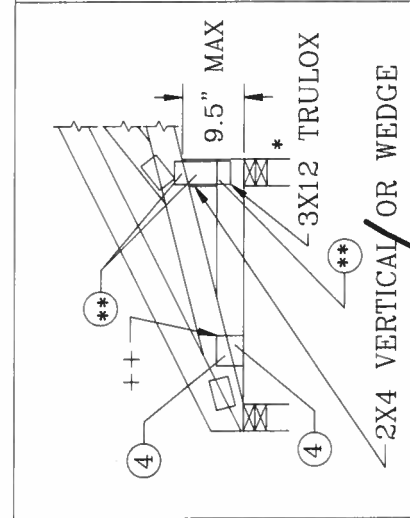
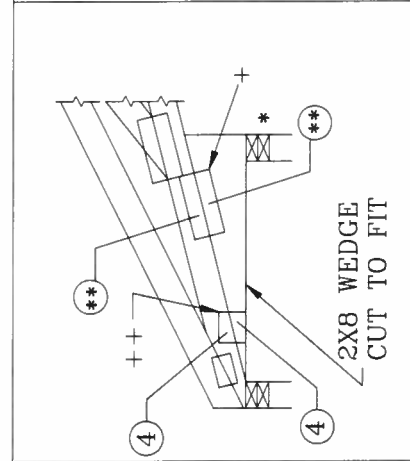
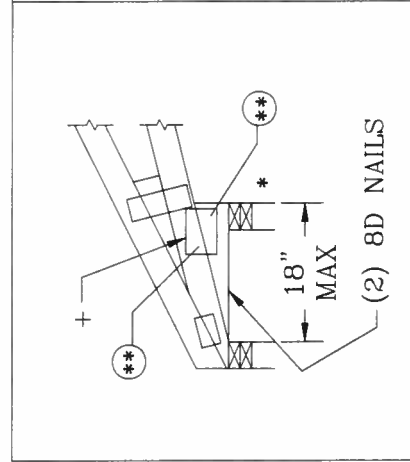
+ 3X4 WAVE OR 4X8 TRULOX
++ 2X4 WAVE OR 3X6 TRULOX

11 GAUGE (0.120")X1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF THE TRUSS. SEE DWG 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.

ALL TRULOX PLATES SHOWN ARE MINIMUMS. LARGER PLATES MAY BE REQUIRED TO ACCOMMODATE REQUIRED NAILS (**)

FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES					
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.	
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8	
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7	6	
SPRUCE-PINE-FIR	2231#	1192#	1.5" X 3.5"	10	9	8	8	6	
SOUTHERN PINE DENSE	3465#	1791#	1.5" X 3.5"	12	11	10	9	8	
SOUTHERN PINE	2966#	1492#	1.5" X 3.5"	10	9	8	8	7	
SOUTHERN PINE NON-DENSE	2520#	1343#	1.5" X 3.5"	9	8	7	7	6	



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DUNDAS DR., SUITE 200, MADISON, WI 53719, AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

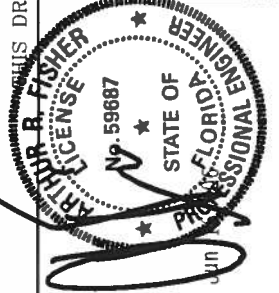
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THIS TRUSS. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/A) ASTM A653 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132

TC LL	—	PSF	REF	BC FILLER
TC DL	—	PSF	DATE	11/26/03
BC DL	10.0	PSF	DRWG	BCFILLER1103
BC LL	—	PSF	—	ENG DLJ/KAR
TOT. LD.	—	PSF		
DUR. FAC.	1.0/1.15/1.25/1.33			



CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE 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	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

T-BRACING

OR

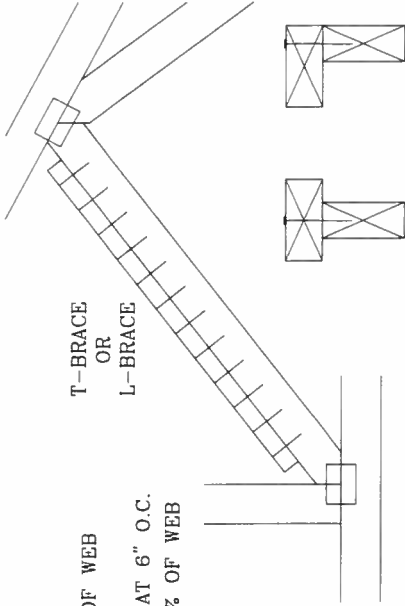
L-BRACING:

APPLY TO EITHER SIDE OF WEB

NARROW FACE

ATTACH WITH 16d NAILS AT 6" O.C.

BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



T-BRACE

L-BRACE

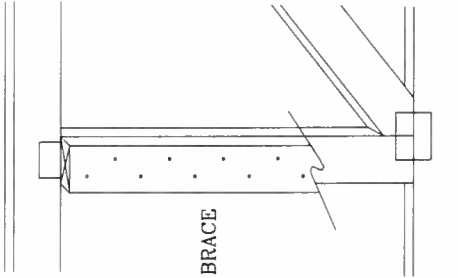
SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.

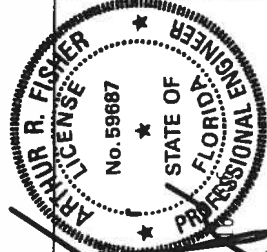
NO MORE THAN (1) SCAB PER FACE.

ATTACH WITH 10d OR .128"x3" GUN

NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACE



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 L-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DINDRIFRD DR., SUITE 200, MADISON, WI 53719) AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BRACE OR TO BRACE CORRECTLY SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (V.H.S/X) ASTM A653 GRADE, 40/60 (V.K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWING 579,640

REF	CLB SUBST.	PSF
TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		

REF DATE 11/26/03
DRWG BRCBLSUB1103
-ENG MLH/KAR