

25350

## 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: IT2P487-Z0128092316

Truss Fabricator: Anderson Truss Company  
 Job Identification: 6-400--Isaac Construction LOT 51 EMERALD COVE -- , \*\*  
 Truss Count: 43  
 Model Code: Florida Building Code 2004  
 Truss Criteria: ANSI/TPI-2002(STD)/FBC  
 Engineering Software: Alpine Software, Versions 7.24, 7.25.  
 Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration  
 Floor - N/A  
 Wind - 110 MPH ASCE 7-02 -Closed



Seal Date: 11/28/2006

## 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. As shown on attached drawings; the drawing number is preceded by: HCUSR487

-Truss Design Engineer-  
 Arthur R. Fisher

Florida License Number: 59687  
 1950 Marley Drive  
 Haines City, FL 33844

Details: BRCLBSUB-A11015EE-GBLLETIN-CNBRGBLK-PIGBACKA-PIGBACKB-

#	Ref	Description	Drawing#	Date
1	96932--H7A		06332084	11/28/06
2	96933--A4		06332073	11/28/06
3	96934--A3		06332074	11/28/06
4	96935--A2		06332075	11/28/06
5	96936--H9A		06332076	11/28/06
6	96937--H11A		06332077	11/28/06
7	96938--H13A		06332078	11/28/06
8	96939--H15A		06332079	11/28/06
9	96940--H17A		06332080	11/28/06
10	96941--H19A		06332081	11/28/06
11	96942--A1		06332082	11/28/06
12	96943--H7B		06332086	11/28/06
13	96944--H9B		06332105	11/28/06
14	96945--H11B		06332108	11/28/06
15	96946--H13B		06332087	11/28/06
16	96947--H15B		06332088	11/28/06
17	96948--H17B		06332089	11/28/06
18	96949--H19B		06332090	11/28/06
19	96950--C		06332091	11/28/06
20	96951--CGE		06332102	11/28/06
21	96952--C-1		06332085	11/28/06
22	96953--DGE		06332092	11/28/06
23	96954--H5F		06332139	11/28/06
24	96955--KGE		06332110	11/28/06
25	96956--F-1		06332141	11/28/06
26	96957--EJ7		06332083	11/28/06
27	96958--CJ5		06332067	11/28/06
28	96959--HJ7		06332069	11/28/06
29	96960--CJ2		06332068	11/28/06
30	96961--EJ5		06332132	11/28/06
31	96962--CJ1		06332135	11/28/06
32	96963--HJ5		06332137	11/28/06
33	96964--HJ5C		06332131	11/28/06
34	96965--CJ3		06332134	11/28/06
35	96966--K		06332144	11/28/06
36	96967--K-1		06332143	11/28/06

#	Ref	Description	Drawing#	Date
37	96968--L		06332146	11/28/06
38	96969--L1		06332147	11/28/06
39	96970--LGE		06332148	11/28/06
40	96971--L-2		06332151	11/28/06
41	96972--PB3		06332070	11/28/06
42	96973--PB1		06332071	11/28/06
43	96974--PB2		06332072	11/28/06





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

SPECIAL LOADS

TC	From	64 PLF at 1.00 to 64 PLF at 35.67
BC	From	5 PLF at 1.00 to 5 PLF at 0.00
BC	From	20 PLF at 0.00 to 20 PLF at 35.67
TC	197 LB Conc. Load at	4.00
TC	197 LB Conc. Load at	6.06, 8.06, 10.06, 12.06, 14.06
TC	197 LB Conc. Load at	16.06, 18.06, 20.06, 22.06, 24.06, 26.06, 28.06, 30.06, 32.06
BC	196 LB Conc. Load at	4.00
BC	85 LB Conc. Load at	6.06, 8.06, 10.06, 12.06, 14.06
BC	18.06, 20.06, 22.06, 24.06, 26.06, 28.06, 30.06, 32.06	

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

2 COMPLETE TRUSSES REQUIRED

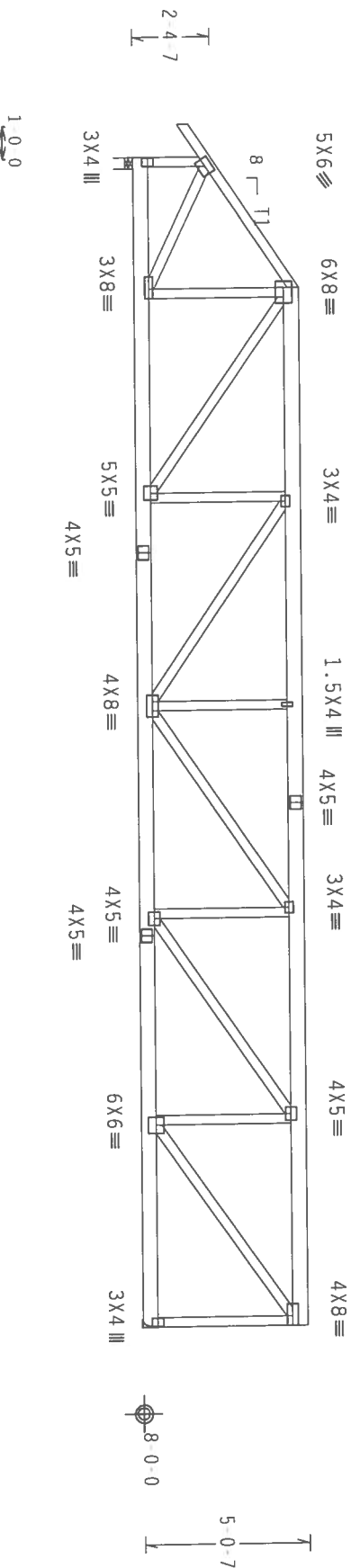
Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, Exp B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.

Wind reactions based on MMFRS pressures.

End verticals not exposed to wind pressure.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

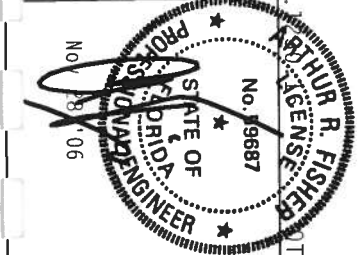
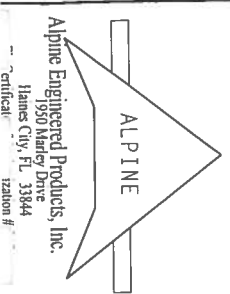
7.24

FL/-/4/-/R/-

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESI (BULDOING COMPONENT SAFETY INFORMATION), HUR R. FISHER ENGINEERING, 218 NORTH LEE STREET, SUITE 312, TAMPA, FL 33604, AND WICA HODD LARSS CONSULT OF AMERICA, 6300 CHIEF OF COMMERCE BLVD, SUITE 100, TAMPA, FL 33604 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 FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI 2002 SEC. 3. FOR THE DESIGN CONTRACTOR DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE DESIGN CONTRACTOR BUILDING DESIGNER PER AMES/TPI 1 SEC. 2.

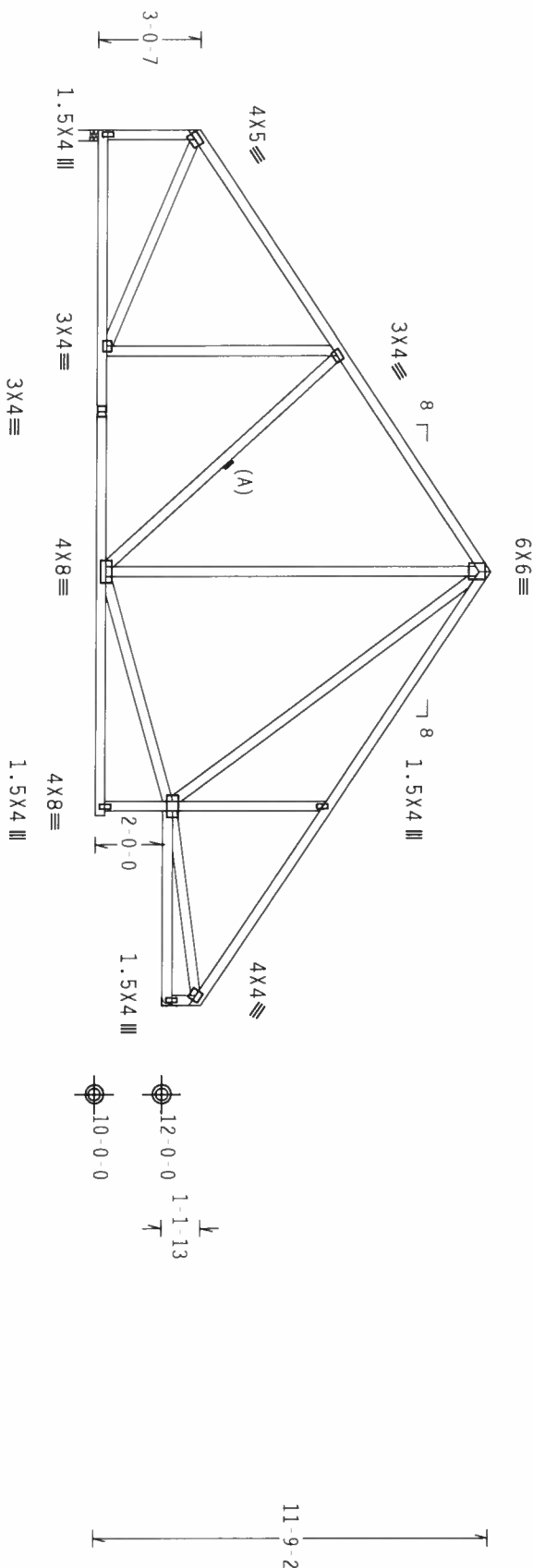


TC LL	20.0 PSF	REF R487 - 96932
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUR487 06332084
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 139358
DUR.FAC.	1.25	
SPACING	SFE ABOVE	
IRFF	177P487_201	

Left 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.

(A) Continuous lateral bracing equally spaced on member.



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

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

THE UNIVERSITY OF CHICAGO

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

Scale = .1875"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 THESE RECORDS EXIST IN FORMATION, HANDLING, SHIPPING, INSTALLING, AND MAINTAINING THE BUILDING COMPONENTS SAFETY INFORMATION. PUBLISHED BY THE STRESS PAST INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WEA (WOOD BRASS CONNECT) OF AMERICA, 6500 ENTERPRISE LANE, HANSON, MI 48139 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 \*\***

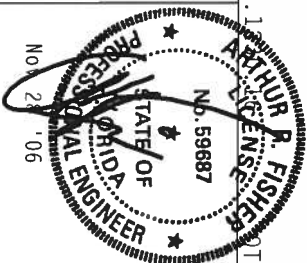
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

PRODUCTS INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF IP11 2002 SEC.3. A SEAL ON THIS

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND ARCHITECT.

[illegible]

TC LL	20.0 PSF	REF	R487 - - 96933
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332073
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	139333
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2P487_201

110 mph wind, 17.40 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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

brace TC @ 24" OC, BC @ 24" OC.


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

PROPERTY

FL/-/-/R/-

Scale = .1875"/Ft.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN;  
1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING

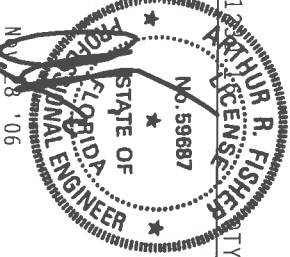
BLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AFAP/

CONDUCTOR PLATES ARE MADE OF 2018/16ga (N.H./55/K) ASTM A653 GRADE 40/60 (N. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

**Certification**



TC LL	20.0 PSF	REF	R487 - 96934
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	H05R487 06332074
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	139341
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T?P487_Z01

110 mph wind, 17.40 ft mean hgt, ASCE 7-02, 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

(A) Continuous lateral bracing equally spaced on member.

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

Drace IC @ 24" OC, BC @ 24" OC.

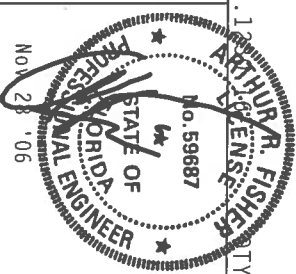
 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1$ 

Scale = .1875"/Ft.

**\*\*IMPORTANT\*\***  
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

Alpine Engineered Products, Inc.

1950 Marney Drive  
Haines City, FL 33844  
Certification



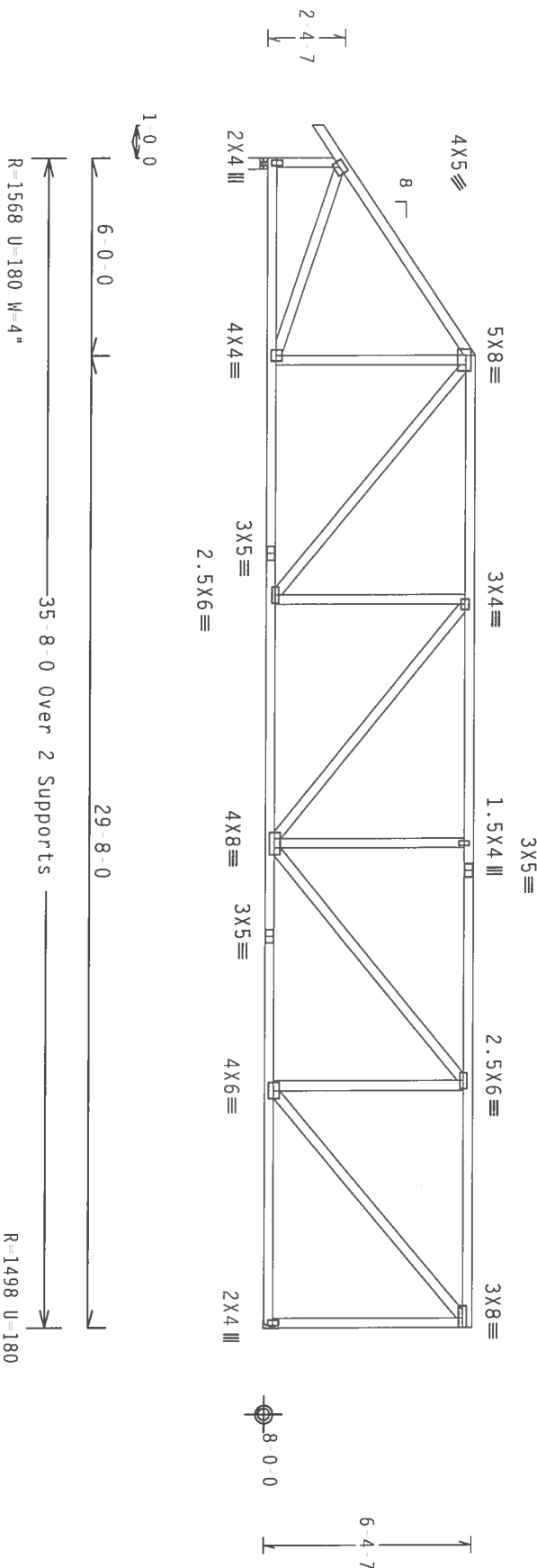
TC LL	20.0 PSF	REF	R487 - 96935
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332075
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	139347
DUR. FAC.	1.25		
SPACING	24.0"	JRFF -	1T2P487_201

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

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

110 mph wind; 15.00 ft mean hgt, ASCE 7-02, 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.

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)

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

PROPERTY: 1

FL/4/1/R/

Scale = .1875"/Ft.

**\*\*WARNING\*\***  
 THESE RECORDS RELATE TO CONSTRUCTION, MAINTENANCE, REPAIR, REPLACEMENT, REMOVAL, OR DEMOLITION OF A BUILDING COMPONENT SYSTEM (B/C/S INFORMATION), MAINTAINED BY THE GEORGETOWN PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICA (WOOD BRIDGE CONSULTING OF AMERICA, 6500 ENTERPRISE LANE, MANASSAS, VA 20108) 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 RIB CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.  
PRODUCTS ARE EQUAL AND BE RECOMMENDED AND REPUTATION FROM THIS DESIGN.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AFAPA) AND TPI.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLANTS FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

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

DESIGN SHOWN. THE SOLIDITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ARTHUR R. FISHER  
LICENSE  
No. 19687  
STATE OF ARIZONA  
PROFESSIONAL ENGINEER  
Nov 28 '06

TC LL	20.0 PSF	REF	R487 - 96936
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCHSR487 06332076
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	139364
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2P487_201

JRFF- 1T2P487\_Z01

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

Wind reactions based on MMFRS pressures.

(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.

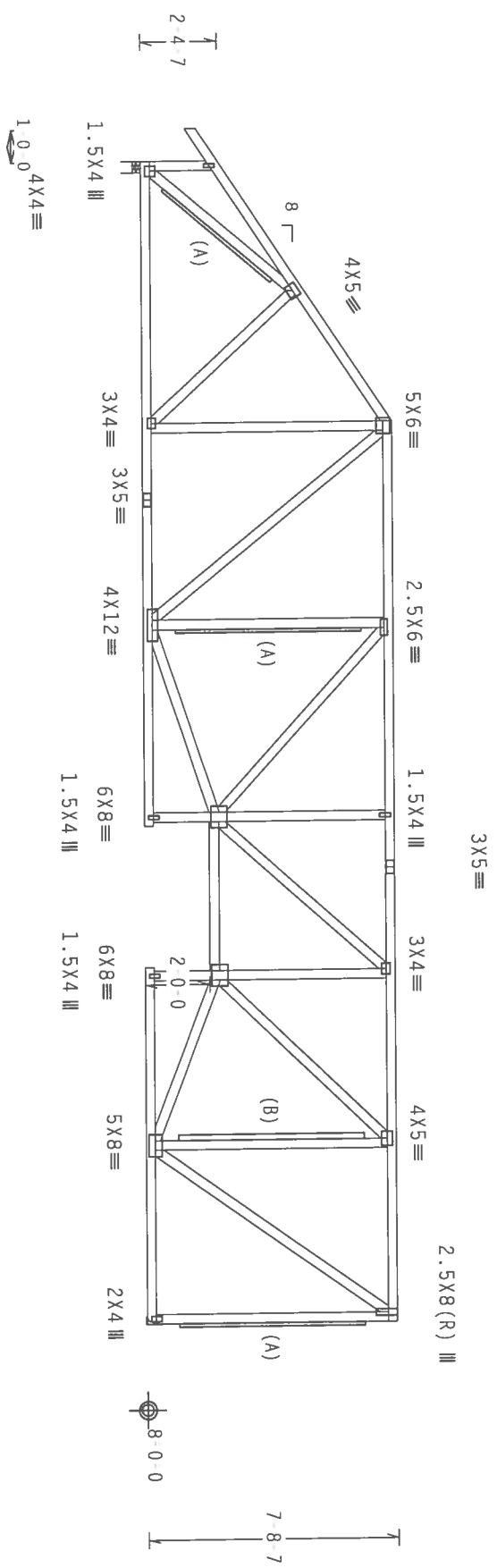
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

End verticals not exposed to wind pressure.

(B) 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.



PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

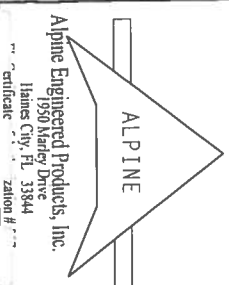
7.24.1

FL/-14/-1/-R/-

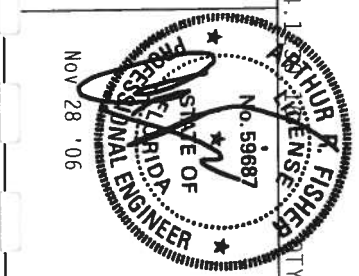
Scale = 1/8" = 1'-0"

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND NRECA (NATIONAL ROOFING CONTRACTORS OF AMERICA, 6300 ENTERPRISE LANE, HOUSTON, TX 77061) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR 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 FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY ALPINE) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 70/18/16GA (40/55/70) ASTM A653 GRADE 40/60 (K, R20/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. IF THIS ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE THE OWNER'S RESPONSIBILITY. IF THIS DESIGN IS USED FOR ANY OTHER PROJECT, THE USER SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL CONSULTING ENGINEER'S SIGNATURE FOR THE TRUSS COMPONENTS DRAWING INDICATES. THE SIGNATURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. SEE SPEC. 2.



Alpine Engineered Products, Inc.  
1950 W. Highway 100, Suite 312, Alexandria, VA 22314  
Phone: 703/533-1111  
Fax: 703/533-1112  
Website: www.alpine-engineered.com



TC LL	20.0 PSF	REF	R487 - 96937
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332077
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	139372
DUR. FAC.	1.25		
SPACING	24.0"	JRFF	177P487_201



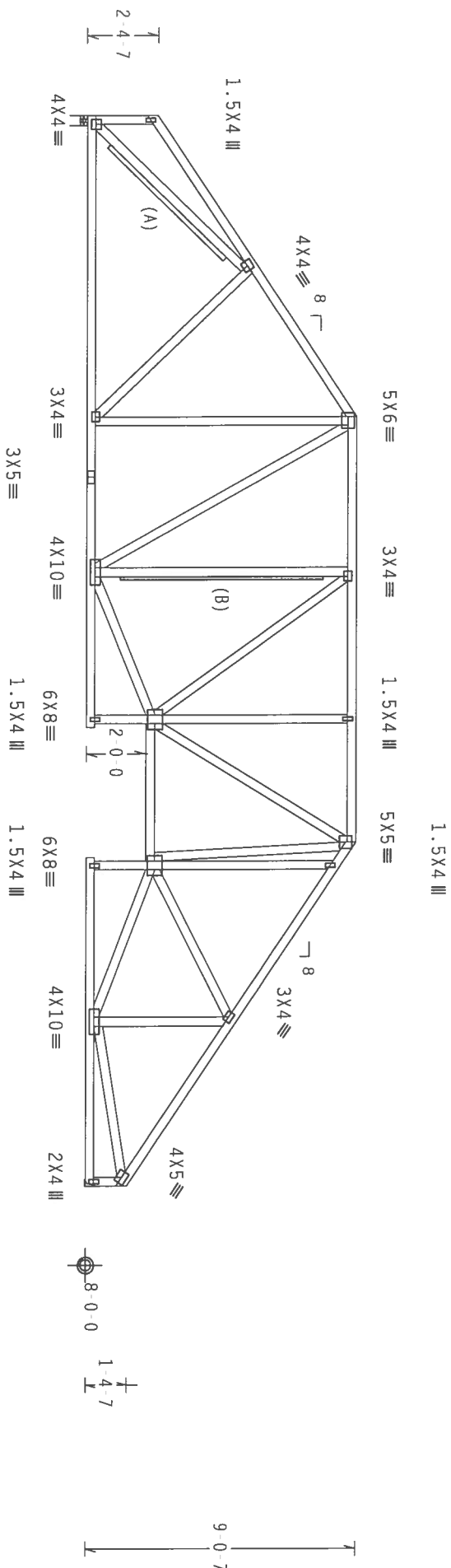
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wabs	2x4	SP	#3	

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

(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.

(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.



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

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

ARTS & CENSURE

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

Scale = .1875"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\*  
 THESE RECORDS EXISTENCE, CARL IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REFER TO BEST AVAILABLE RECORDS (INCLUDING COMPONENTS INFORMATION), PUBLISHED BY IPI, (FEDERAL PASTE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) AND WICA (WORLD WIDE INSURANCE COMPANY OF AMERICA, 6500  
 ENTERPRISE LANE, HANNOVER, NH 03901) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED FOR CORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CORD SHALL HAVE  
 PROPERLY ATTACHED RIGID CLOSING.

**\*\*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 & BRACING OF TRUSSES.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/PFA) AND IPI. ALPINE CONCRETE PLATE IS MADE OF 20/18/16GA (H/H/S/S/X) ASTM A653 GRADE 40/60 (H, K/H/S) GALV. STEEL. APPLY

PLATES TO EACH TIE OR CROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1604.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE PURPOSE OF THIS SEAL ON THIS

DESIGN SHOW. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/CES § 1.0 SEC. 2.

—

1. **ARTHUR R. FISHER**  
**ENGINEER**  
 No. 50687  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 Nov 28 '06

TC LL	20.0 PSF	REF R487-- 96938
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUR487 06332078
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SECN- 139380
DUR.FAC.	1.25	
SPACING	24.0"	IRFF - 1T2P487_Z01

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

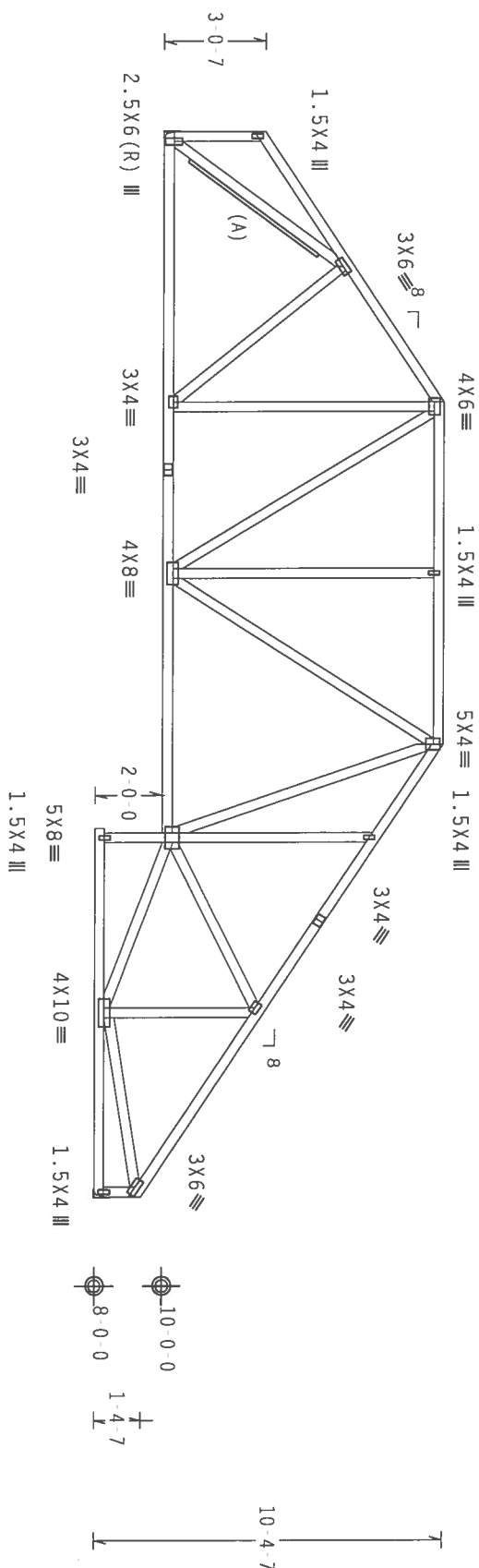
Left end vertical not exposed to wind pressure.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

(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 or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC



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

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

7.24.

1. **LICENSEE:**

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

Scale = .1875"/Ft.

\*\*\*WARNING\*\*\*  
 THESSES REQUIRE EXTENSIVE CARE IN ERODATION, HANDLING, SHIPPING, INSTALLING AND DRACING  
 REUSE TO AC308 (BUILDING COMPONENTS SAFETY INFORMATION), PUBLISHED BY THE GIBBS PATE INSTITUTE, 210  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AFCA (WOOD FRASS COMMITTEE OF AMERICA, 6300  
 ENTERPRISE LANE, MANASSAS, VA 20108) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED, THE 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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI

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 PERFORMED AS OF 10/1/2009 SEC 3. A SEAL ON THE

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 AISI/ISI 1 SEC. 2.

ARTHUR R. FISHER  
LICENSE

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

Scale = .1875"/Ft.

TC LL	20.0
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REF R487-- 96939

TC DL	10.0
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DATE 11/28/06

BC D1 10.0

DRW HCILSR487 06332079

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HJ-ENG TCE/AE

TOTAL 400

CEON 130308

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

Wind reactions based on MWFRS pressures.

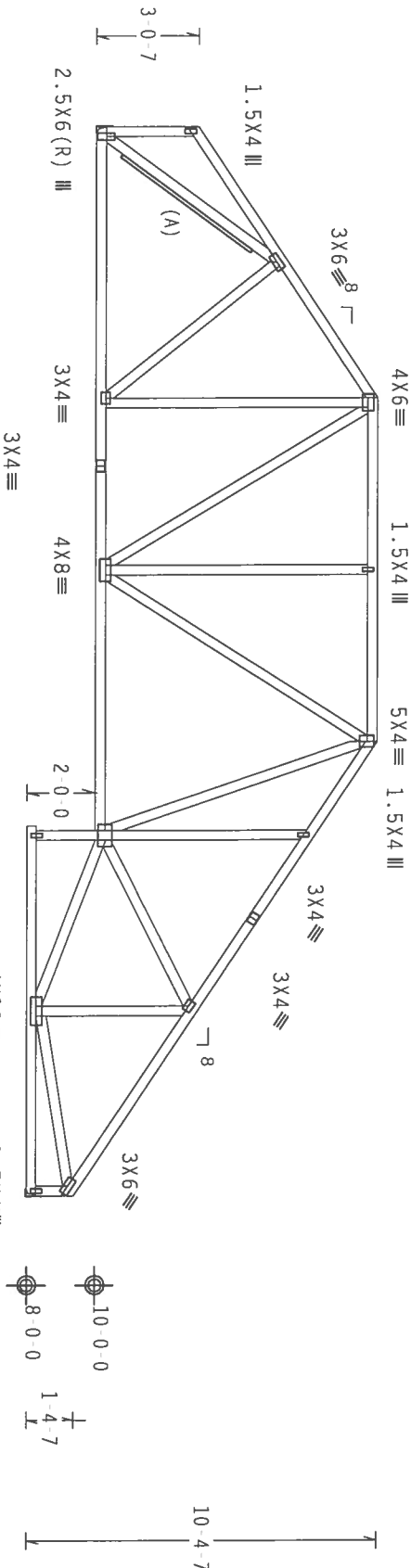
Left end vertical not exposed to wind pressure.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

(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 or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

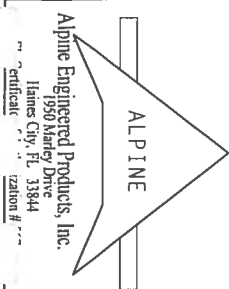
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0)

7.24.1  
FL/-/4/-/R/-

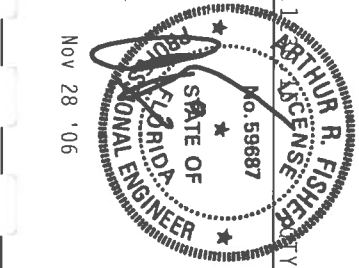
Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES BEING EXTREMELY CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCSTI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE INSTITUTE OF BUILDING MATERIALS, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK MOOD TRUSS COUNCIL OF AMERICA, 600 ENTERPRISE LANE, 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: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING OF THE TRUSS. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1990 Marley Drive  
Haines City, FL 33844  
Certification #



TC LL	20.0 PSF	REF	R487-- 96940
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332080
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	139396
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2P487_201

Left 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.

110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, note located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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 or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC



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

7.24.

FL/4/R/

Scale = .1875"/ft.

**WARNING:** THESE ROOFING EXISTING CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DCSP1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (FURST) PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD FRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HANNOVER, IN 47319) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. INSURERS INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING CONFORMS WITH APPLICABLE PROVISIONS OF NIOS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI

CONNECTION PLATES ARE SHALL BE 20/10/1000 (W/TH/35/5) PERMANENTLY WELDED 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 ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS

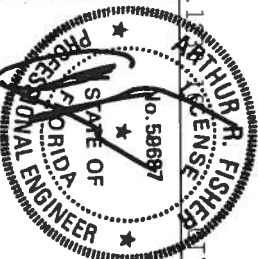
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE CROSS COMPONENT.

DESIGN SHOWN THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TP1 1 SEC. 2

[illegible]

**ALPINE**

**Alpine Engineered Products, Inc.**  
 1930 Marley Drive  
 Hannes City, TX 75844  
 Certificate # \_\_\_\_\_  
 Station # \_\_\_\_\_



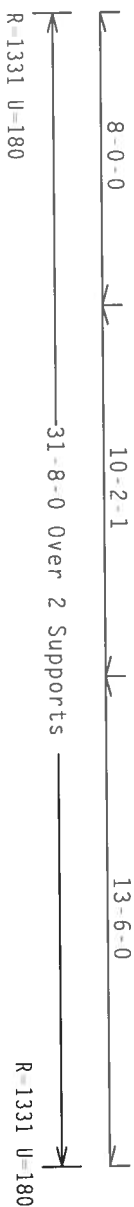
TC LL	20.0 PSF	REF	R487 - 96941
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332081
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	139401
DUR.FAC.	1.25		
SPACING	24.0"	IRFF -	1T2P487_201

Left 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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

(A) 1x4 SP #3 or better "I" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC. In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

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

[illegible]

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

TRUSS IN CONFORMANCE WITH TP1:

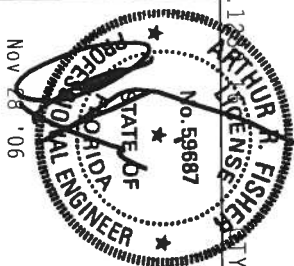
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA&PA) AND TPI

CONNECTION PLATES ARE MADE OF 20/10/10mm (5/8/3/8) WITH ROSS UNIONS TO/TO (SEE DRAWINGS) AND BOLTS 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 ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS

THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2



90.87 NOV

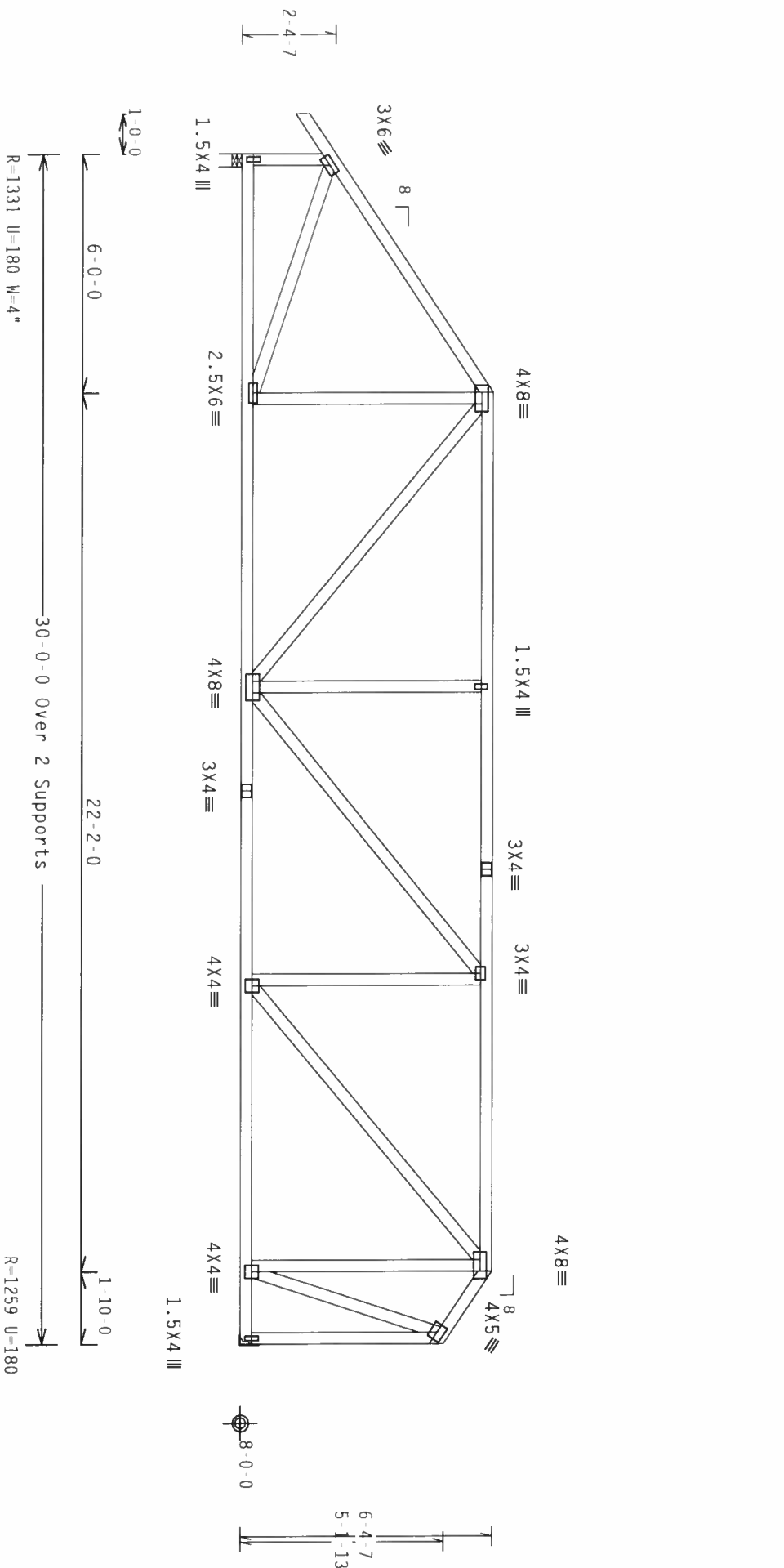
TC LL	20.0 PSF	REF	R487 - - 96942
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCU8487 06332082
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	139406
DUR.FAC.	1.25		
SPACING	24.0"	IRFF	1T2P4R7_201



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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.



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

QUANTITY: 1

Scale = .25"/Ft.

**WARNING:** THESE RIGID, EXTERIOR, CAST, IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACKING, (BULBING) COMPONENTS, (IN OR OUTDOOR), PULVISED BY TPI (THERMO PLASTIC INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WEA (WOOD BRASS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MANASSAS, VA 53139 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CORDON SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CORDON SHALL HAVE PROPERLY ATTACHED RIGID CORD SHALL HAVE.

**\*\* IMPORTANT \*\***  
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACI

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC, BY AIAA) AND TPI

CONNECTOR PLATE(S) ARE MACH. OF 20/18/16GA (W, H/SS/K) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV.


PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER D

ANY INSPECTION OF PLANTS FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE ARCHITECT.

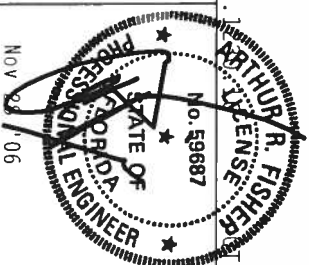
**BUILDING DESIGNER PER AISI/ISI 1 SEC. 2:**

— — — — —



Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844  
Certification #



TC LL	20.0 PSF	REF	R487 - 96944
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487_06332105
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17654
DUR.FAC.	1.25		
SPACING	24.0"	JIRFF	1T2P487_201

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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

End verticals not exposed to wind pressure.

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

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

Scale = .25"/Ft.

STATE OF  
No. 59687  
ARTHUR A. FISHER  
LICENSE

TC LL	20.0 PSF	REF	R487 - 96945
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 / 063332108
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEON-	17659
DUR.FAC.	1.25		
SPACING	24.0"	IRREF -	1T2P487_Z01



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

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

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

16 CENSUS

FL-141-1-R-

Scale = 1/25" / Ft.

[illegible]

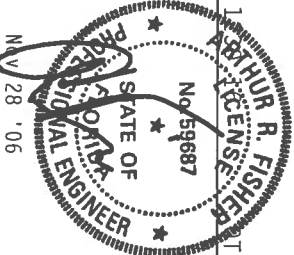
**\*\*IMPORTANT\*\***  
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.  
ALPINE ENGINEERED

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 & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HDS (NATIONAL DESIGN SPEC. BY AISC) AND IPT. CONDUCTOR PLATES ARE MADE OF 20/18/16GA (H/HSS/CL) ASTM A553 GRADE 40/60 (H, K/H/SS) GALV. STEEL. ALPHINE APPLY

PLATES TO EACH T OR CROSS 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 TP11-2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT.

DESIGN SHOWA. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/AP1 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 96946
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332087
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	139308
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2P487_201

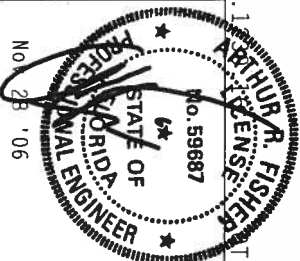
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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



1950 Marley Drive  
Haines City, FL 33844  
Certificate # 1171240

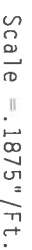


TC LL	20.0 PSF	REF	R487 - 96947
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332088
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	139312
DUR.FAC.	1.25		
SPACING	24.0"	IRFF-	1T2P487 Z01

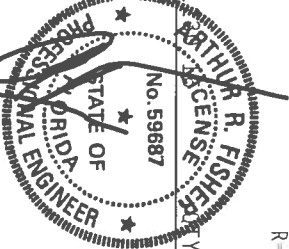
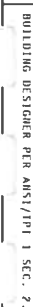


Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

(A) 1x4 SP #3 or better 1" 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 or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.



DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



TC LL	20.0 PSF	REF	R487 - 96949
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCSH487 06332090
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	139323
DUR.FAC.	1.25		
SPACING	24.0"	IRFF-	1T2PAR7_201



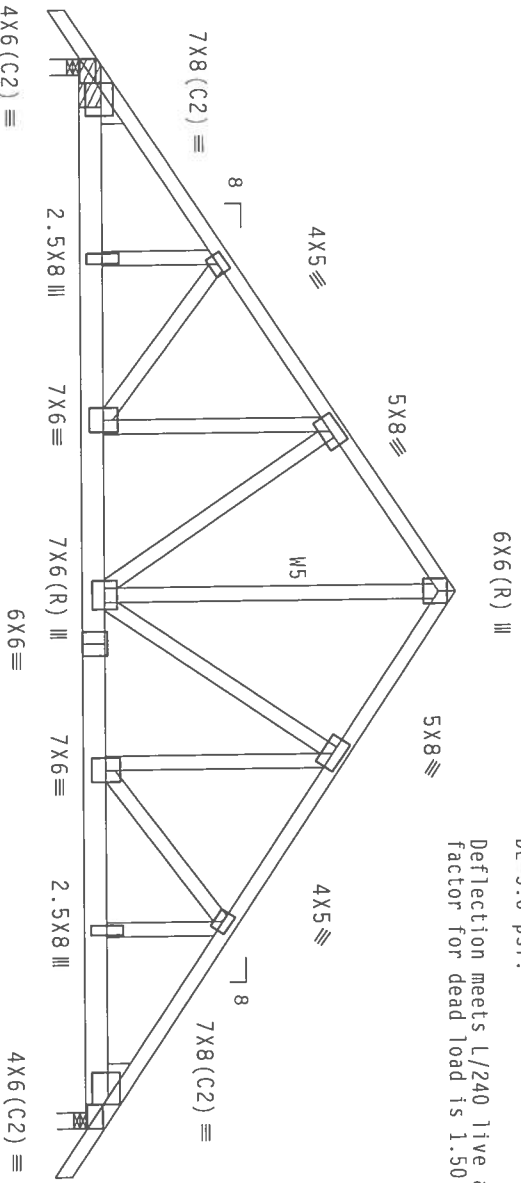
2017-07-27

Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #1 Dense  
Webs 2x4 SP #3 :W5 2x4 SP #2 Dense:  
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

SPECIAL LOADS

TC	From	64 PLF at 1.00 to	64 PLF at 23.00
BC	From	5 PLF at 1.00 to	5 PLF at 0.00
BC	From	20 PLF at 0.00 to	20 PLF at 22.00
BC	From	5 PLF at 22.00 to	5 PLF at 23.00
BC	1331 LB Conc. Load at	0.94,	2.94, 4.94, 6.94
BC	1499 LB Conc. Load at	8.94,	10.94, 12.94
BC	3952 LB Conc. Load at	14.88	

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



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 2 Rows @6.00" o.c. (Each Row)  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails  
BRG X-Loc #BLOCKS LENGTH/BLK #NAILS/BLK MATCH PLATE  
1 0.000' 1 12" 8 Match Truss  
Bearing block to be same size and species as bottom chord.  
Refer to drawing CNBRGBLK1103 for additional information.

PLT TYP. Wave

Design Crit: TP1 2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

7.25

TY:1

FL/-/4/-/R/-

Scale =.25"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RECI. (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE NATIONAL ASSOCIATION OF BUILDING MATERIALS MANUFACTURERS, 1200 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) FOR ADDITIONAL 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 DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, CONDUCTOR PLATES ARE MADE OF 20/18/16GA (W/15/5) ASTM A653 GRADE 40/60 (W/15/5) 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 AMER AS OF 10/1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMER 10/1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.  
1550 N. Highway 1  
Haines City, FL 33844  
Certification #



Nov 28 '06

TC LL	20.0 PSF	REF R487-- 96952
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332085
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 12684 REV
DUR.FAC.	1.25	
SPACING	SFE ABOVE	JIRFF- 117P487_Z01

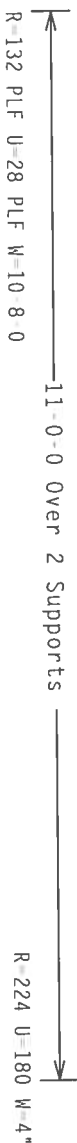
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

See DWGS A11015EE0405 & GBLETTIN0405 for more requirements.

Truss spaced at 24.0" OC designed to support 1-6-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

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

7.24.1

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1 FL/4/R/

Scale = .5" / Ft.

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REF	R487- 96953
DATE	11/28/06
DRW	HCSUR487 0633209
HC-ENG	TCE/AF
SEQN-	17617
JRRFF- 1T2P487_Z01	



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

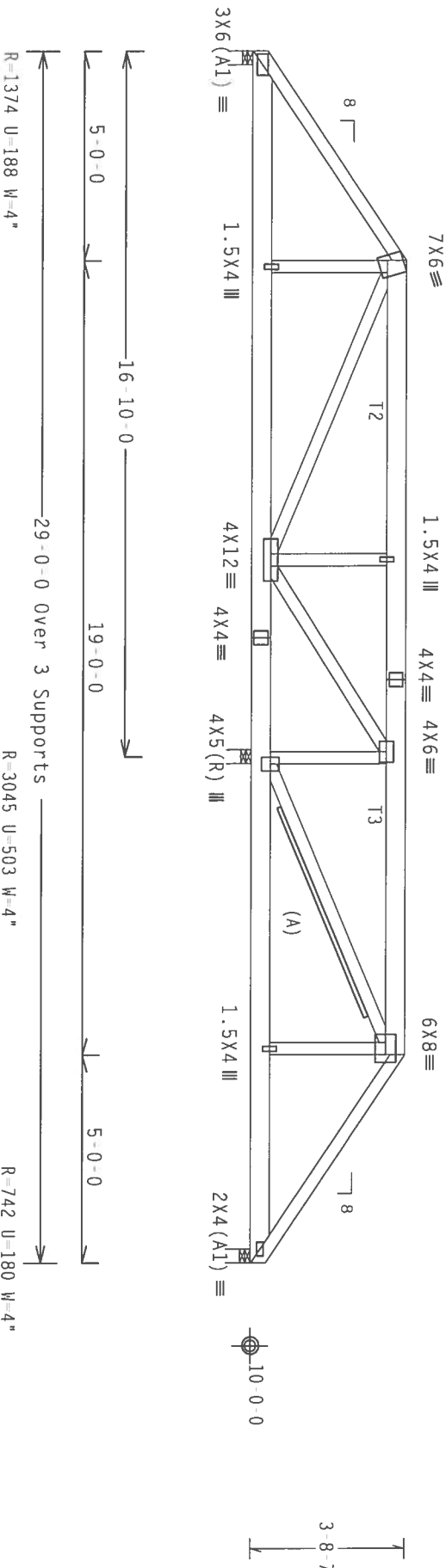
(A) 1x4 SP #3 or better "T" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

SPECIAL LOADS

TC	From	64 PLF at 0.00 to 64 PLF at 29.00
BC	From	20 PLF at 0.00 to 20 PLF at 29.00
TC	405 LB Conc. Load at	5.00
TC	137 LB Conc. Load at	7.06, 9.06, 11.06, 13.06, 14.50
TC	17.94, 19.94, 21.94	
TC	302 LB Conc. Load at	24.00
BC	184 LB Conc. Load at	5.00
BC	58 LB Conc. Load at	7.06, 9.06, 11.06, 13.06, 14.50
BC	17.94, 19.94, 21.94	
BC	81 LB Conc. Load at	23.94

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)

7.24.1

PTV:1 FL/-/4/-/R/-

Scale =.25"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET, BUILDING COMPONENT SAFETY, INCLUDING PROTECTIVE COVERINGS, MUST BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. 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 FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

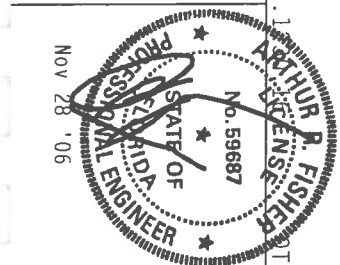
ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

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 AIA/ASA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

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 AIA/ASA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

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 AIA/ASA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

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 AIA/ASA) AND TPI. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.



TC LL	20.0 PSF	REF R487-- 96954
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332139
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 17703
DUR.FAC.	1.25	
SPACING	24.0"	IRFF- 1172P487 201



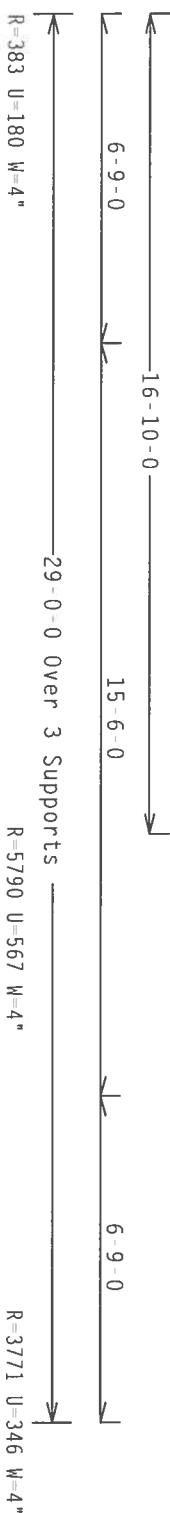
Top chord	2x4	SP	#2	Dense	:T2	2x6	SP	#2:
Bot chord	2x6	SP	#2	:B2	2x6	SP	#1	Dense:
webs	2x4	SP	#3					

Nailing Schedule: (12d Common (0.148"x3.25", min.)\_nails)

Weds : 1 row @ 4" o.c.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

(A) SP #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. Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

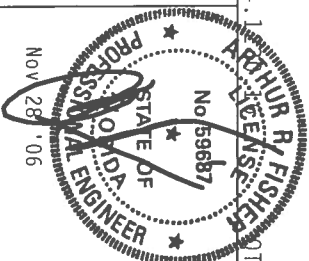


Scale = .25"/Ft.

**\*\*IMPORTANT\*\***  
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

Alpine Engineered Products, Inc.  
1050 4th St., Denver

Haines City, FL 33844  
Certificate # \_\_\_\_\_



TC LL	20.0 PSF	REF	R487 - 96956
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332141
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	139433
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1T2P487_201

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

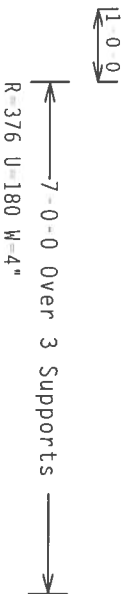
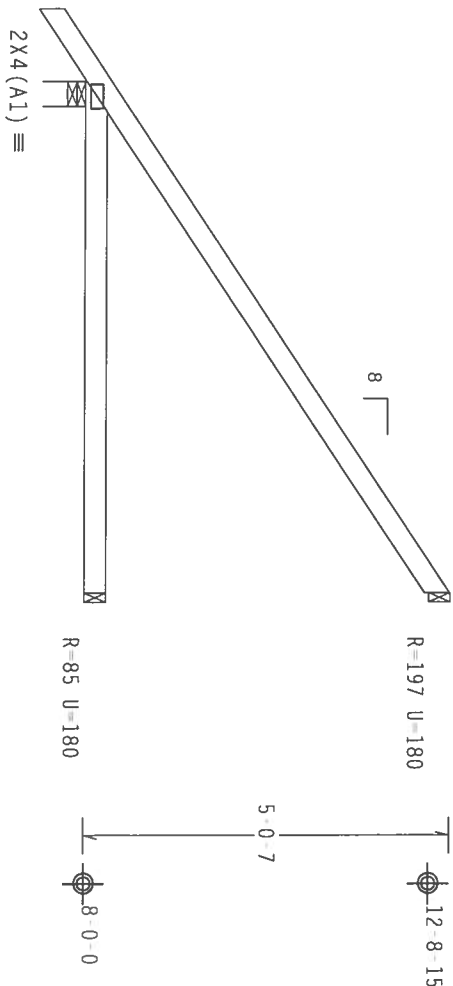
Wind reactions based on MMFRS pressures.

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 7-02, 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.

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

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: TPI-2002(STD)/FBC

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

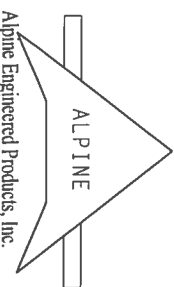
7.24.10

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

Scale =.375"/Ft.

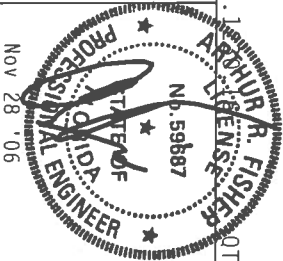
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO MCS1 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICKIWOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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 FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/10/10GA (R/H/S/S) ASTM A653 GRADE 40/60 (K/H/S) GALV. STEEL. APPLY TO ALL TRUSSES AND CHORDS UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF BUILDING SHALL BE CONDUCTED IN ACCORDANCE WITH THE 2002 SEC. 2. A STATE OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL RESPONSIBILITY FOR THE DESIGN OR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWSI/TPI 1 SEC. 2.



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

Professional Engineer License # 677



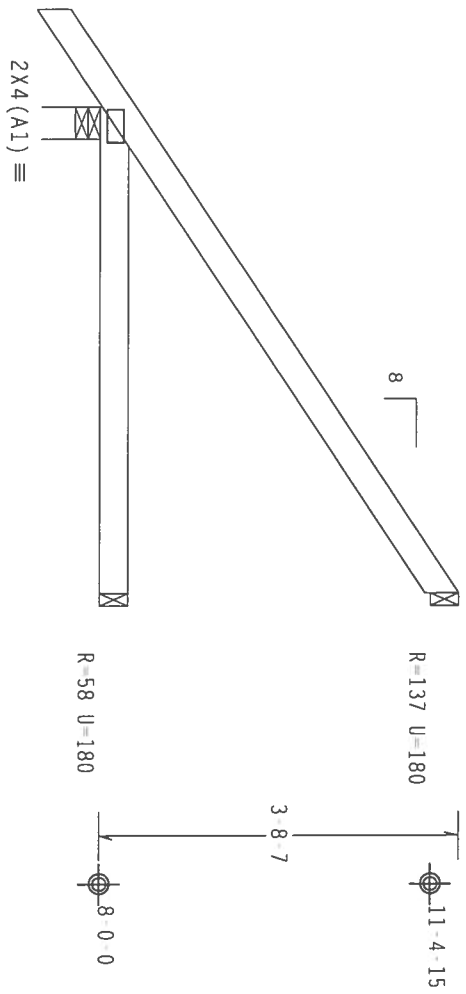
TC LL	20.0 PSF	REF R487-- 96957
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332083
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 139436
DUR.FAC.	1.25	
SPACING	24.0"	URFF- 1T2P487_201

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

Wind reactions based on MMFRS pressures.

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 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.  
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.



5-0-0 Over 3 Supports  
R-294 U=180 W=4"

PLT TYP. Wave

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

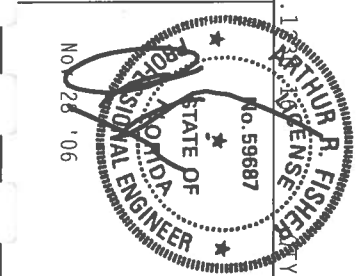
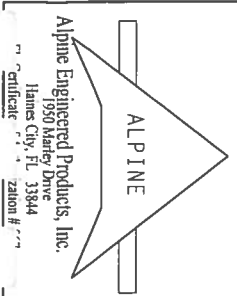
7.24.1

FL/-/4/-/R/-

Scale =.5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY JPI TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE TRUSSES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. CONNECTIONS OF PLATES TO TRUSSES SHALL BE PER AREA A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

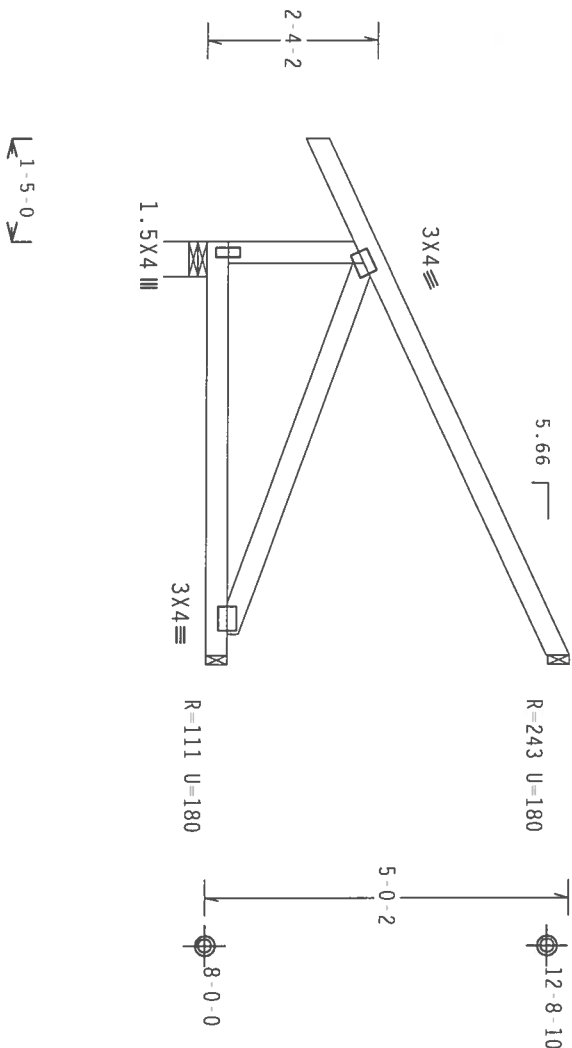


TC LL	20.0 PSF	REF R487-- 96958
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332067
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 17620
DUR.FAC.	1.25	
SPACING	24.0"	IRFF- 1T2P487_201

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.

In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 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)

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24$$

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

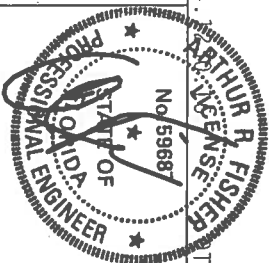
Scale = .375"/Ft.

**\*\*\*WARNING\*\*\***  
 THESE ARE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING  
 REQUIRED TO AVOID BUILDING COMPONENT STRESS INFORMATION. PUBLISHED BY TPI, STRESS PANE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300  
 ENTERPRISE LANE, MALDEN, MA 02148 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 TOP CEILING.

Alpine Engineered Products, Inc.

1950 Marley Drive  
Haines City, FL 33844

Certificate # \_\_\_\_\_  
Registration # \_\_\_\_\_



Nov 28 '06

TC LL	20.0 PSF	REF	R487 - 96959
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332069
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17642
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1722487_201

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

Left end vertical not exposed to wind pressure.

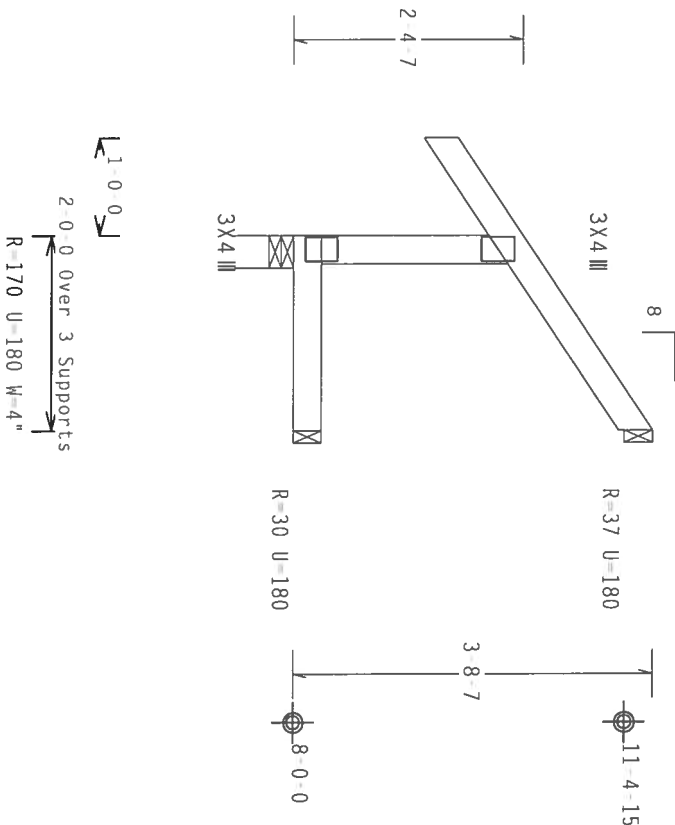
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.16" due to live load and 0.09" due to dead load.

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

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: TPI-2002(STD)/FBC

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

7.24.12

[illegible]

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

Scale = .5" / ft.

**WARNING:** THESE ALUMINUM EXTERIOR CARPENTRY FABRICATIONS, INCLUDING SHIPMENT, INSTALLATION AND BRACING REFER TO BCSI (BUILDING COMPONENTS SYSTEM INFORMATION), PUBLISHED BY FPI (FIRST PACE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD JOINTS COUNCIL OF AMERICA), 6400 ENTERPRISE LANE, MANASSAS, VA 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CORD SHALL HAVE PROPERLY ATTACHED RIGID CORDING.

**\*\*\* IMPORTANT \*\*\***  
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

TRUSS IN CONFORMANCE WITH TPI. OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC, BY AASHTO) AND TPI. ALPINE


PLATES TO EACH FACE OF IRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AS OF IP11 2002 SEC.3. A SEAL ON THIS

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE CROSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

THE SUBMITTER AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
 DESIGNER PER ANSI/TPI 1 SEC. 2

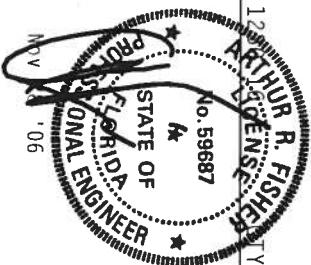
—



ALPINE

Alpine Engineered Products, Inc.

Alpine Engineered Products, Inc.  
1950 Marley Drive  
Ilaines City, FL 33844  
Certificate #                       
                    ization #                     

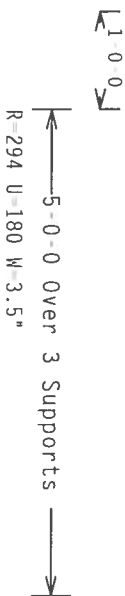


TC LL	20.0 PSF	REF	R487-- 96960
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332068
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17624
DUR.FAC.	1.25		
SPACING	24.0"	JIRFF-	1T2P487_201

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

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

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.

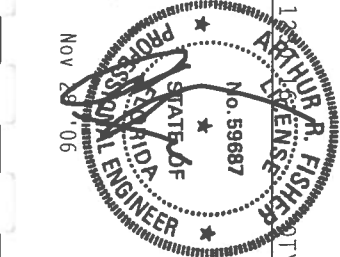


Scale = .5"/Ft.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2.

1750 Mainey Drive  
Haines City, FL 33844

City of  
Certificate  
ization #



TC LL	20.0 PSF	REF	R487 - 96961
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332132
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17676
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2P487_Z01





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

Wind reactions based on MMFRS pressures.

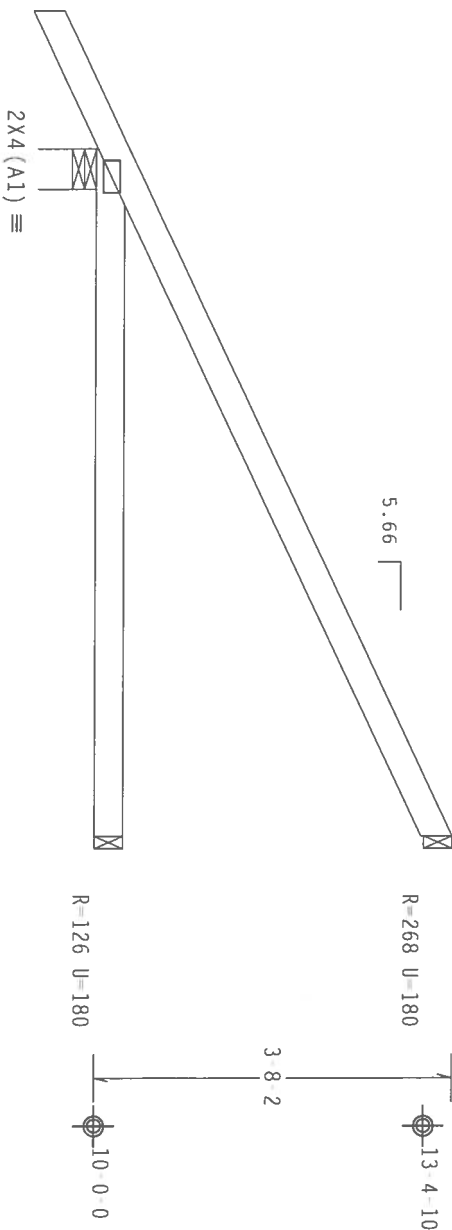
In lieu of structural panels or rigid ceiling use purlins to brace TC  
@ 24" OC, BC @ 24" OC.

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 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0  
psf.

Hipjack supports 5 0-0 setback jacks with no webs.

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



← 1-5-0 →

7-0-14 Over 3 Supports  
R=460 U=180 W 4.95"

PLT TYP. Wave

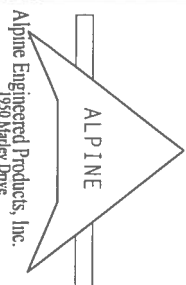
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0)

7.24.11 R. FISHER  
FL/-/4/-/R/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REMOVED EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BCST, BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS SYSTEMS, INC., 6300  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND WEA FROM TRUSS COUNCIL OF AMERICA, 6300  
ENTERPRISE LANE, 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.

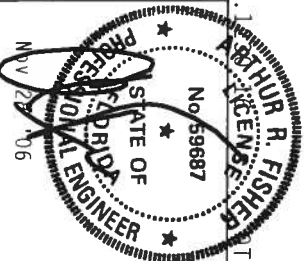
**\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (A900), AISC 360, AISC 360M, AISC 360S, AISC 360T, AISC 360U, AISC 360V, AISC 360W, AISC 360X, AISC 360Y, AISC 360Z, AISC 360AA, AISC 360AB, AISC 360AC, AISC 360AD, AISC 360AE, AISC 360AF, AISC 360AG, AISC 360AH, AISC 360AI, AISC 360AJ, AISC 360AK, AISC 360AL, AISC 360AM, AISC 360AN, AISC 360AO, AISC 360AP, AISC 360AQ, AISC 360AR, AISC 360AS, AISC 360AT, AISC 360AU, AISC 360AV, AISC 360AW, AISC 360AX, AISC 360AY, AISC 360AZ, AISC 360BA, AISC 360BB, AISC 360BC, AISC 360BD, AISC 360BE, AISC 360BF, AISC 360BG, AISC 360BH, AISC 360BI, AISC 360BJ, AISC 360BK, AISC 360BL, AISC 360BM, AISC 360BN, AISC 360BO, AISC 360BP, AISC 360BQ, AISC 360BR, AISC 360BS, AISC 360BT, AISC 360BU, AISC 360BV, AISC 360BW, AISC 360BX, AISC 360BY, AISC 360BZ, AISC 360CA, AISC 360CB, AISC 360CC, AISC 360CD, AISC 360CE, AISC 360CF, AISC 360CG, AISC 360CH, AISC 360CI, AISC 360CJ, AISC 360CK, AISC 360CL, AISC 360CM, AISC 360CN, AISC 360CO, AISC 360CP, AISC 360CQ, AISC 360CR, AISC 360CS, AISC 360CT, AISC 360CU, AISC 360CV, AISC 360CW, AISC 360CX, AISC 360CY, AISC 360CZ, AISC 360DA, AISC 360DB, AISC 360DC, AISC 360DD, AISC 360DE, AISC 360DF, AISC 360DG, AISC 360DH, AISC 360DI, AISC 360DJ, AISC 360DK, AISC 360DL, AISC 360DM, AISC 360DN, AISC 360DO, AISC 360DP, AISC 360DQ, AISC 360DR, AISC 360DS, AISC 360DT, AISC 360DU, AISC 360DV, AISC 360DW, AISC 360DX, AISC 360DY, AISC 360DZ, AISC 360EA, AISC 360EB, AISC 360EC, AISC 360ED, AISC 360EE, AISC 360EF, AISC 360EG, AISC 360EH, AISC 360EI, AISC 360EJ, AISC 360EK, AISC 360EL, AISC 360EM, AISC 360EN, AISC 360EO, AISC 360EP, AISC 360EQ, AISC 360ER, AISC 360ES, AISC 360ET, AISC 360EU, AISC 360EV, AISC 360EW, AISC 360EX, AISC 360EY, AISC 360EZ, AISC 360FA, AISC 360FB, AISC 360FC, AISC 360FD, AISC 360FE, AISC 360FF, AISC 360FG, AISC 360FH, AISC 360FI, AISC 360FJ, AISC 360FK, AISC 360FL, AISC 360FM, AISC 360FN, AISC 360FO, AISC 360FP, AISC 360FQ, AISC 360FR, AISC 360FS, AISC 360FT, AISC 360FU, AISC 360FV, AISC 360FW, AISC 360FX, AISC 360FY, AISC 360FZ, AISC 360GA, AISC 360GB, AISC 360GC, AISC 360GD, AISC 360GE, AISC 360GF, AISC 360GG, AISC 360GH, AISC 360GI, AISC 360GJ, AISC 360GK, AISC 360GL, AISC 360GM, AISC 360GN, AISC 360GO, AISC 360GP, AISC 360GQ, AISC 360GR, AISC 360GS, AISC 360GT, AISC 360GU, AISC 360GV, AISC 360GW, AISC 360GX, AISC 360GY, AISC 360GZ, AISC 360HA, AISC 360HB, AISC 360HC, AISC 360HD, AISC 360HE, AISC 360HF, AISC 360HG, AISC 360HH, AISC 360HI, AISC 360HJ, AISC 360HK, AISC 360HL, AISC 360HM, AISC 360HN, AISC 360HO, AISC 360HP, AISC 360HQ, AISC 360HR, AISC 360HS, AISC 360HT, AISC 360HU, AISC 360HV, AISC 360HW, AISC 360HX, AISC 360HY, AISC 360HZ, AISC 360IA, AISC 360IB, AISC 360IC, AISC 360ID, AISC 360IE, AISC 360IF, AISC 360IG, AISC 360IH, AISC 360II, AISC 360IJ, AISC 360IK, AISC 360IL, AISC 360IM, AISC 360IN, AISC 360IO, AISC 360IP, AISC 360IQ, AISC 360IR, AISC 360IS, AISC 360IT, AISC 360IU, AISC 360IV, AISC 360IW, AISC 360IX, AISC 360IY, AISC 360IZ, AISC 360JA, AISC 360JB, AISC 360JC, AISC 360JD, AISC 360JE, AISC 360JF, AISC 360JG, AISC 360JH, AISC 360JI, AISC 360JJ, AISC 360JK, AISC 360JL, AISC 360JM, AISC 360JN, AISC 360JO, AISC 360JP, AISC 360JQ, AISC 360JR, AISC 360JS, AISC 360JT, AISC 360JU, AISC 360JV, AISC 360JW, AISC 360JX, AISC 360JY, AISC 360JZ, AISC 360KA, AISC 360KB, AISC 360KC, AISC 360KD, AISC 360KE, AISC 360KF, AISC 360KG, AISC 360KH, AISC 360KI, AISC 360KJ, AISC 360KL, AISC 360KM, AISC 360KN, AISC 360KO, AISC 360KP, AISC 360KQ, AISC 360KR, AISC 360KS, AISC 360KT, AISC 360KU, AISC 360KV, AISC 360KW, AISC 360KX, AISC 360KY, AISC 360KZ, AISC 360LA, AISC 360LB, AISC 360LC, AISC 360LD, AISC 360LE, AISC 360LF, AISC 360LG, AISC 360LH, AISC 360LI, AISC 360LJ, AISC 360LK, AISC 360LL, AISC 360LM, AISC 360LN, AISC 360LO, AISC 360LP, AISC 360LQ, AISC 360LR, AISC 360LS, AISC 360LT, AISC 360LU, AISC 360LV, AISC 360LW, AISC 360LX, AISC 360LY, AISC 360LZ, AISC 360MA, AISC 360MB, AISC 360MC, AISC 360MD, AISC 360ME, AISC 360MF, AISC 360MG, AISC 360MH, AISC 360MI, AISC 360MJ, AISC 360MK, AISC 360ML, AISC 360MM, AISC 360MN, AISC 360MO, AISC 360MP, AISC 360MQ, AISC 360MR, AISC 360MS, AISC 360MT, AISC 360MU, AISC 360MV, AISC 360MW, AISC 360MX, AISC 360MY, AISC 360MZ, AISC 360NA, AISC 360NB, AISC 360NC, AISC 360ND, AISC 360NE, AISC 360NF, AISC 360NG, AISC 360NH, AISC 360NI, AISC 360NJ, AISC 360NK, AISC 360NL, AISC 360NM, AISC 360NN, AISC 360NO, AISC 360NP, AISC 360NQ, AISC 360NR, AISC 360NS, AISC 360NT, AISC 360NU, AISC 360NV, AISC 360NW, AISC 360NX, AISC 360NY, AISC 360NZ, AISC 360OA, AISC 360OB, AISC 360OC, AISC 360OD, AISC 360OE, AISC 360OF, AISC 360OG, AISC 360OH, AISC 360OI, AISC 360OJ, AISC 360OK, AISC 360OL, AISC 360OM, AISC 360ON, AISC 360OO, AISC 360OP, AISC 360OQ, AISC 360OR, AISC 360OS, AISC 360OT, AISC 360OU, AISC 360OV, AISC 360OW, AISC 360OX, AISC 360OY, AISC 360OZ, AISC 360PA, AISC 360PB, AISC 360PC, AISC 360PD, AISC 360PE, AISC 360PF, AISC 360PG, AISC 360PH, AISC 360PI, AISC 360PJ, AISC 360PK, AISC 360PL, AISC 360PM, AISC 360PN, AISC 360PO, AISC 360PP, AISC 360PQ, AISC 360PR, AISC 360PS, AISC 360PT, AISC 360PU, AISC 360PV, AISC 360PW, AISC 360PX, AISC 360PY, AISC 360PZ, AISC 360QA, AISC 360QB, AISC 360QC, AISC 360QD, AISC 360QE, AISC 360QF, AISC 360QG, AISC 360QH, AISC 360QI, AISC 360QJ, AISC 360QK, AISC 360QL, AISC 360QM, AISC 360QN, AISC 360QO, AISC 360QP, AISC 360QQ, AISC 360QR, AISC 360QS, AISC 360QT, AISC 360QU, AISC 360QV, AISC 360QW, AISC 360QX, AISC 360QY, AISC 360QZ, AISC 360RA, AISC 360RB, AISC 360RC, AISC 360RD, AISC 360RE, AISC 360RF, AISC 360RG, AISC 360RH, AISC 360RI, AISC 360RJ, AISC 360RK, AISC 360RL, AISC 360RM, AISC 360RN, AISC 360RO, AISC 360RP, AISC 360RQ, AISC 360RR, AISC 360RS, AISC 360RT, AISC 360RU, AISC 360RV, AISC 360RW, AISC 360RX, AISC 360RY, AISC 360RZ, AISC 360SA, AISC 360SB, AISC 360SC, AISC 360SD, AISC 360SE, AISC 360SF, AISC 360SG, AISC 360SH, AISC 360SI, AISC 360SJ, AISC 360SK, AISC 360SL, AISC 360SM, AISC 360SN, AISC 360SO, AISC 360SP, AISC 360SQ, AISC 360SR, AISC 360SS, AISC 360ST, AISC 360SU, AISC 360SV, AISC 360SW, AISC 360SX, AISC 360SY, AISC 360SZ, AISC 360TA, AISC 360TB, AISC 360TC, AISC 360TD, AISC 360TE, AISC 360TF, AISC 360TG, AISC 360TH, AISC 360TI, AISC 360TJ, AISC 360TK, AISC 360TL, AISC 360TM, AISC 360TN, AISC 360TO, AISC 360TP, AISC 360TQ, AISC 360TR, AISC 360TS, AISC 360TT, AISC 360TU, AISC 360TV, AISC 360TW, AISC 360TX, AISC 360TY, AISC 360TZ, AISC 360UA, AISC 360UB, AISC 360UC, AISC 360UD, AISC 360UE, AISC 360UF, AISC 360UG, AISC 360UH, AISC 360UI, AISC 360UJ, AISC 360UK, AISC 360UL, AISC 360UM, AISC 360UN, AISC 360UO, AISC 360UP, AISC 360UQ, AISC 360UR, AISC 360US, AISC 360UT, AISC 360UU, AISC 360UV, AISC 360UW, AISC 360UX, AISC 360UY, AISC 360UZ, AISC 360VA, AISC 360VB, AISC 360VC, AISC 360VD, AISC 360VE, AISC 360VF, AISC 360VG, AISC 360VH, AISC 360VI, AISC 360VJ, AISC 360VK, AISC 360VL, AISC 360VM, AISC 360VN, AISC 360VO, AISC 360VP, AISC 360VQ, AISC 360VR, AISC 360VS, AISC 360VT, AISC 360VU, AISC 360VV, AISC 360VW, AISC 360VX, AISC 360VY, AISC 360VZ, AISC 360WA, AISC 360WB, AISC 360WC, AISC 360WD, AISC 360WE, AISC 360WF, AISC 360WG, AISC 360WH, AISC 360WI, AISC 360WJ, AISC 360WK, AISC 360WL, AISC 360WM, AISC 360WN, AISC 360WO, AISC 360WP, AISC 360WQ, AISC 360WR, AISC 360WS, AISC 360WT, AISC 360WU, AISC 360WV, AISC 360WW, AISC 360WX, AISC 360WY, AISC 360WZ, AISC 360XA, AISC 360XB, AISC 360XC, AISC 360XD, AISC 360XE, AISC 360XF, AISC 360XG, AISC 360XH, AISC 360XI, AISC 360XJ, AISC 360XK, AISC 360XL, AISC 360XM, AISC 360XN, AISC 360XO, AISC 360XP, AISC 360XQ, AISC 360XR, AISC 360XS, AISC 360XT, AISC 360XU, AISC 360XV, AISC 360XW, AISC 360XX, AISC 360XY, AISC 360XZ, AISC 360YA, AISC 360YB, AISC 360YC, AISC 360YD, AISC 360YE, AISC 360YF, AISC 360YG, AISC 360YH, AISC 360YI, AISC 360YJ, AISC 360YK, AISC 360YL, AISC 360YM, AISC 360YN, AISC 360YO, AISC 360YP, AISC 360YQ, AISC 360YR, AISC 360YS, AISC 360YT, AISC 360YU, AISC 360YV, AISC 360YW, AISC 360YX, AISC 360YY, AISC 360YZ, AISC 360ZA, AISC 360ZB, AISC 360ZC, AISC 360ZD, AISC 360ZE, AISC 360ZF, AISC 360ZG, AISC 360ZH, AISC 360ZI, AISC 360ZJ, AISC 360ZK, AISC 360ZL, AISC 360ZM, AISC 360ZN, AISC 360ZO, AISC 360ZP, AISC 360ZQ, AISC 360ZR, AISC 360ZS, AISC 360ZT, AISC 360ZU, AISC 360ZV, AISC 360ZW, AISC 360ZX, AISC 360ZY, AISC 360ZZ.



Alpine Engineered Products, Inc.

James City, FL 33844

License #



TC LL	20.0 PSF	REF R487-- 96963
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332137
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 17688
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JRFF- 1T2P487_201

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

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

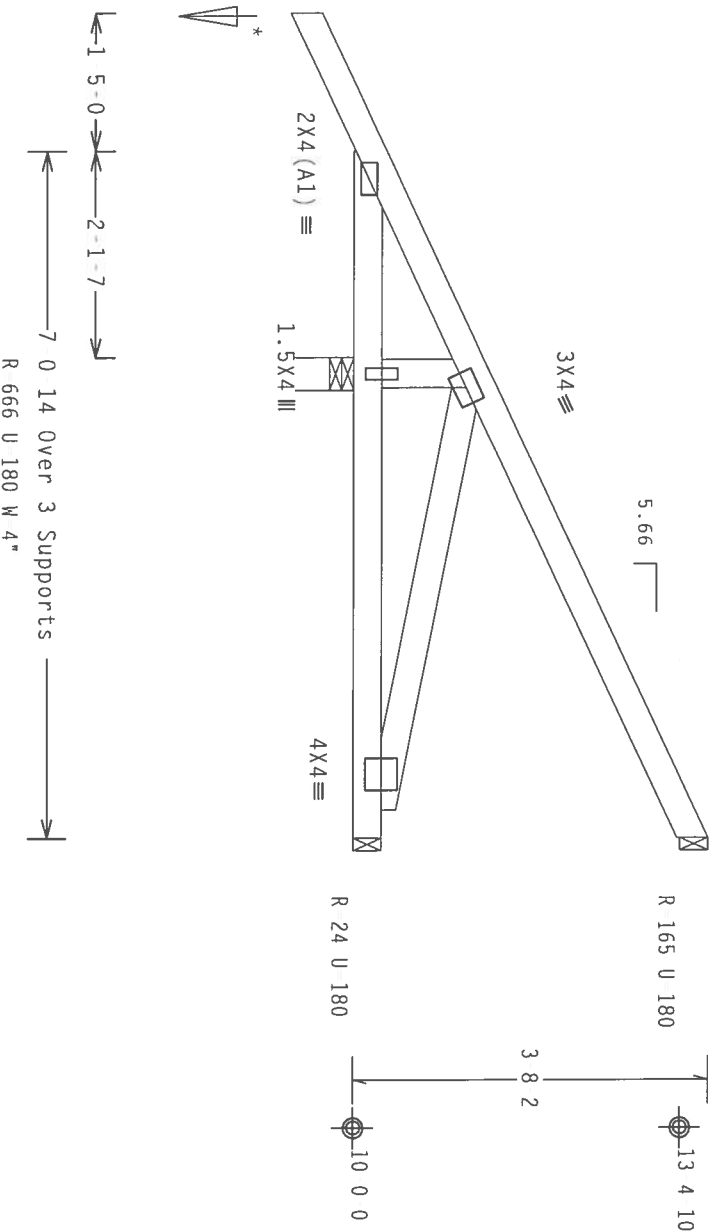
Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase factor for dead load is 1.50.

\* 120# concentrated load from fascia beams; fascia beams and their connections to be designed and furnished by others.

110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL 5.0 psf, wind BC DL 5.0 psf.

Hipjack supports 5 0 0 setback jacks with 1 6 0 cantilever one face; 1 6 0 cantilever opposite face.

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: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

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

7.24.12

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

Scale = .5"/Ft.

**WARNING:** TESTS REQUIRE EXTREME CARE IN FABRICATING HANDLING, STORING, INSTALLING AND BRACING. TO GET TO CS-1 (MULTI-DIC COMPONENT SYSTEM INFORMATION) CONSULT WITH THE DESIGN PRACTICE, 2100 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AICA (IRON BRASS CORREL, OF AMERICA), 5300 ENTERPRISE LANE, MANASSAS, VA 20109. TOP SURFACES MUST BE PROPERLY ATTACHED PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS PROPERLY INDICATED FOR CS1000 SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CS1000 SHALL HAVE 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. ANY FAILURE TO BUILD THE DESIGN IN CONFORMANCE WITH THIS SPECIFICATION OR FABRICATING, HANDLING, SHIPPING, INSTALLING, OR TRAVELING OF TRUSSES, SHALL BE CONSIDERED A VIOLATION OF THE PROVISIONS OF MDAS (NATIONAL DESIGN SPEC.) BY AIRPFA AND TPI.

CONDUCTOR PLATES ARE MADE OF 20/18/16GA (H, 1/55/X) STH 653 GRADE 40/60 (H, K/H, 55) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DISC, POSITION PER DRAWINGS 160A-2. AFTER INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1 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 DESIGNER PER AISC/TPI 1 SEC. 2.

120THUR. R. FISHER  
SCIENCE

TC LL	20.0 PSF	REF	R487 - 96964
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332131
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	17692
DUR.FAC.	1.25		
SPACING	SFE ABOVE	JRFF	1T2P487_201

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

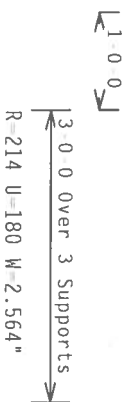
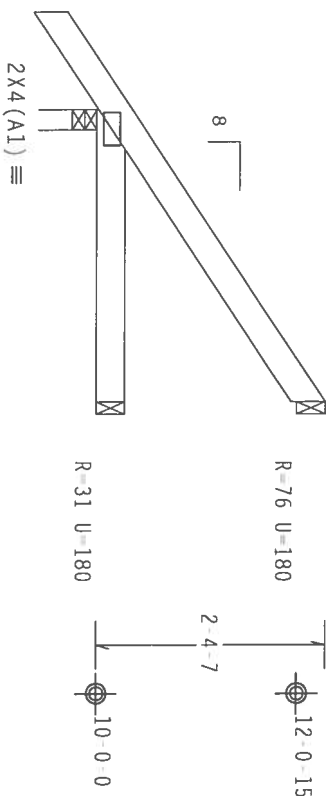
Wind reactions based on MMFRS pressures.

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 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR GRADE TO FABRICATOR, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DECS (BUILDING COMPONENT SAFETY INFORMATION), HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS CONSTRUCTION), NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, 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. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, TRUSS CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI.

CONNECTIONS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2, 160B 2, 160C 2, 160D 2, 160E 2, 160F 2, 160G 2, 160H 2, 160I 2, 160J 2, 160K 2, 160L 2, 160M 2, 160N 2, 160O 2, 160P 2, 160Q 2, 160R 2, 160S 2, 160T 2, 160U 2, 160V 2, 160W 2, 160X 2, 160Y 2, 160Z 2.

APPLY INSULATION TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2, 160B 2, 160C 2, 160D 2, 160E 2, 160F 2, 160G 2, 160H 2, 160I 2, 160J 2, 160K 2, 160L 2, 160M 2, 160N 2, 160O 2, 160P 2, 160Q 2, 160R 2, 160S 2, 160T 2, 160U 2, 160V 2, 160W 2, 160X 2, 160Y 2, 160Z 2.

THESE TRUSSES ARE DESIGNED FOR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TY.1

FL/-/4/-/R/-

Scale = .5"/ft.

TC LL 20.0 PSF REF R487 - 96965

TC DL 10.0 PSF DATE 11/28/06

BC DL 10.0 PSF DRW HCUSR487 06332134

BC LL 0.0 PSF HC-ENG TCE/AF

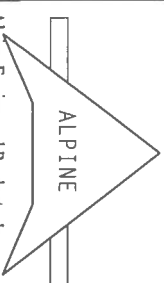
TOT.LD. 40.0 PSF SEON- 17685

DUR.FAC. 1.25

SPACING 24.0"

IRFF- 172P487\_201

Alpine Engineered Products, Inc.  
1950 Manley Drive  
Haines City, FL 33844  
Certification #

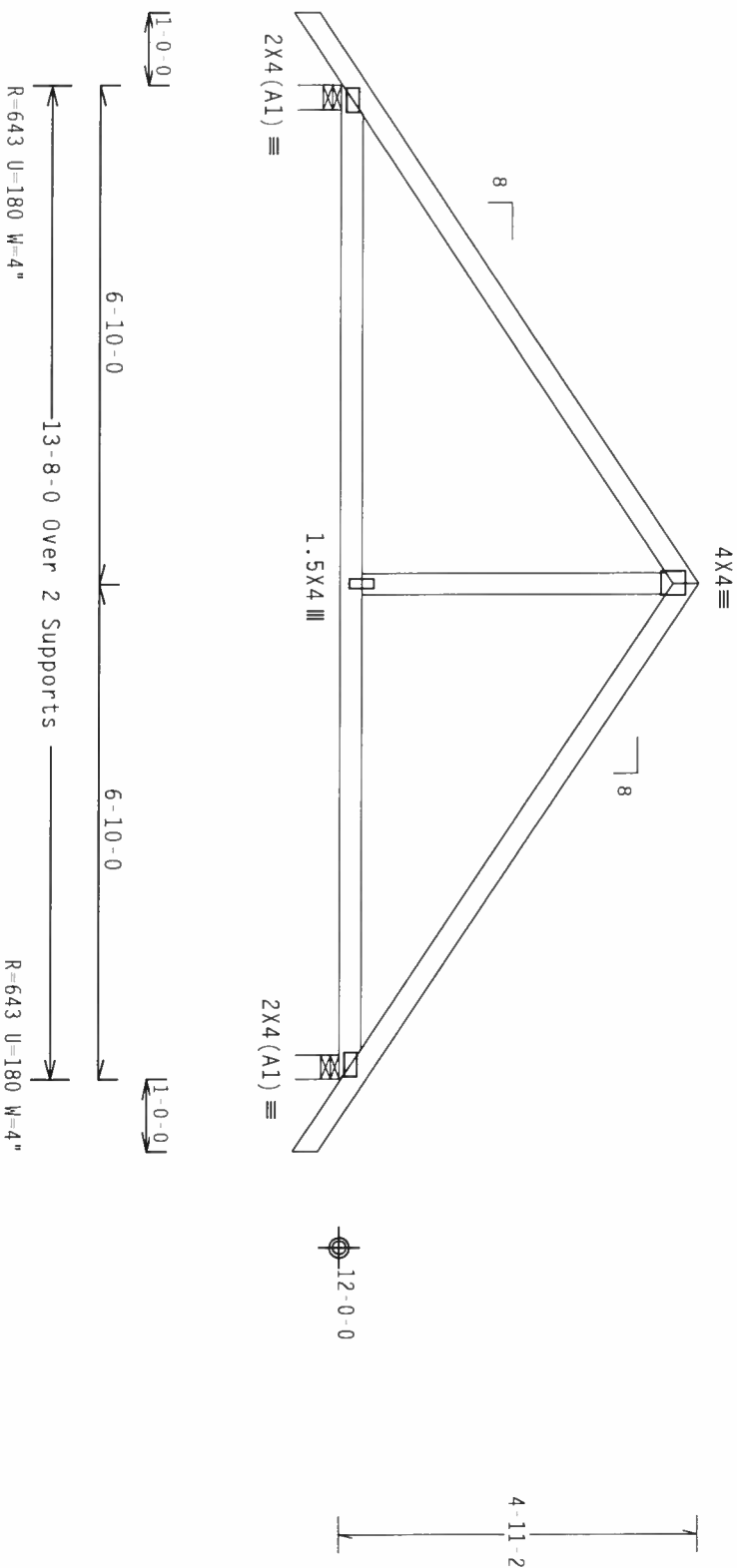


Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

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 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1$ 

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

Scale = .375"/Ft.

Alpine Engineered Products, Inc.

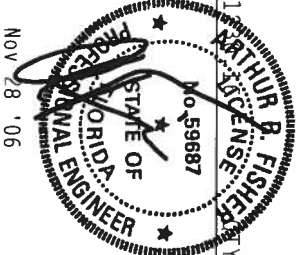
1950 Marley Drive  
Haines City, FL 33844  
Certificate of Registration

**\*\*WARNING\*\***  
BIDDERS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF THE FOLLOWING COMPOSITE SAFETY INFORMATION, FURNISHED BY THE STEELPSA INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WEA (WOOD WORKS COUNCIL OF AMERICA), 6300 ENTERPRISE AVE., MOJOSSON, IL 52319, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CROUD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTICS AND BOTTOM CROUD SHALL HAVE PROPERLY ATTACHED RIDGE CEILING.

**\*\*IMPORTANT\*\***  
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE PRESS IN CONFORMANCE WITH THIS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. AT THE

CONDUCTOR PLATES, MADE OF 20/18/1664 (H-55/55), ASS A563 GRADE, 40/60 (IN. K/11/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, THROUGHOUT, LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604. 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF (1/1) 2002 SEC. 3. A SEAL, ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS COMPONENT DESIGN SHOWN, THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER. (SEE APPENDIX 1 SEC. 2.)



TC LL	20.0 PSF	REF	R487 - 96966
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332144
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN -	139300
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2P487 Z01

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at 0.00 to 64 PLF at 13.67  
BC - From 20 PLF at 0.00 to 20 PLF at 13.67  
BC - 1092 LB Conc. Load at 0.27, 2.27, 4.27, 6.27, 8.27  
10.27, 12.27

Wind reactions based on MMFRS pressures.

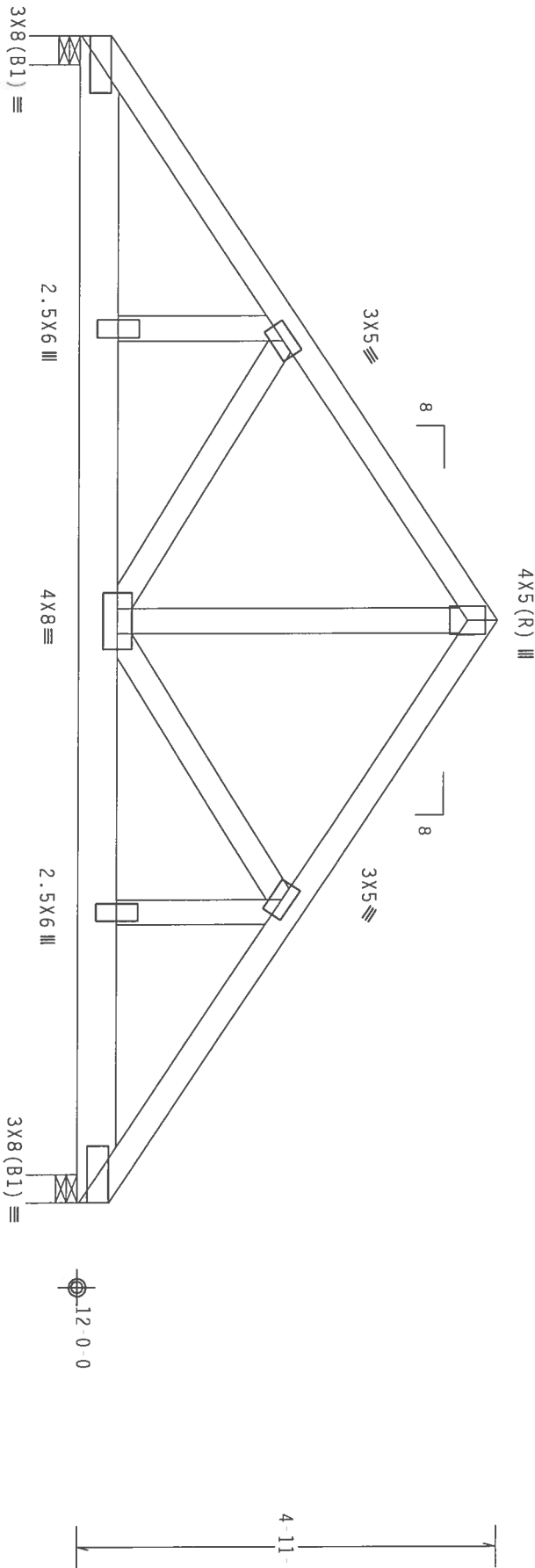
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 3.25" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

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



6'-10'-0" 6'-10'-0" 13'-8'-0" Over 2 Supports  
R-4720 U-518 W-4" R-4076 U-447 W-4"

PLT TYP. Wave

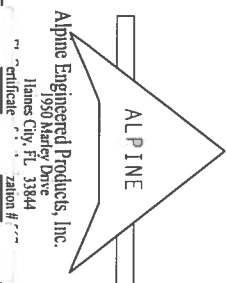
Design Crt: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: 6300  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICKI MOON TRUSS COMPANY, 6300  
ENTERPRISE LANE, 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.

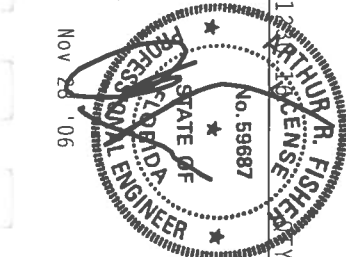
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES,  
DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS COMPONENTS. A SEAL OR THIS  
DRAWING INDICATES ACCEPTANCE OF PROVISIONS OF THE NDS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. 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  
Certificate # 139351



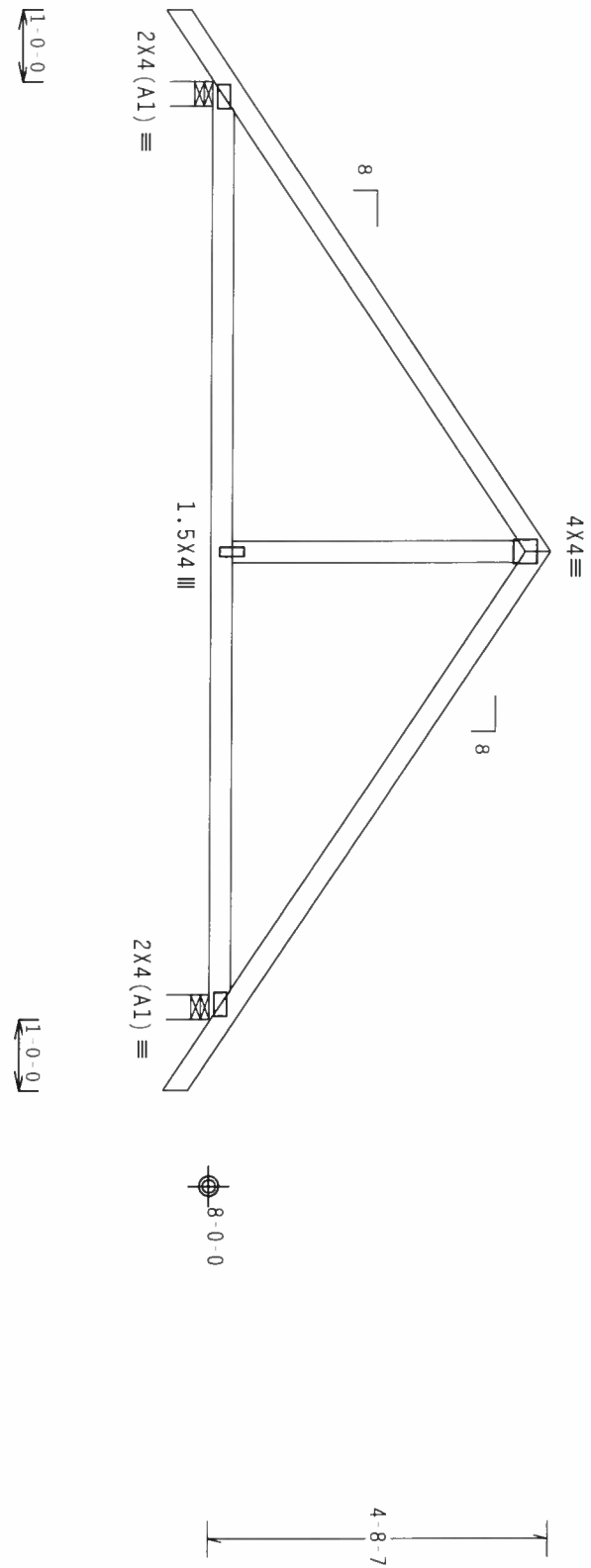
TC LL	20.0 PSF	REF R487-- 96967
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332143
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 139351
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 117P487 201

(6 400 Isaac Construction LOT 51 EMERALD COVE, \*\* L)  
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

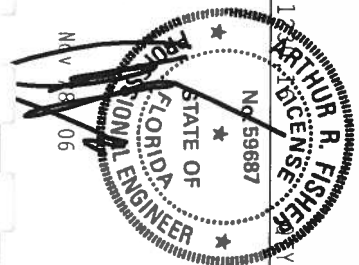
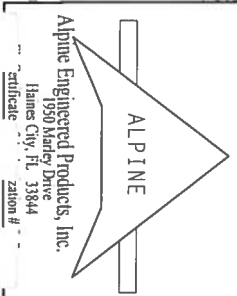
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.1  
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES RIGIDLY EXTENDING CASE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCSTI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, 1001 LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICKI MOON TRUSS CONNECT, 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-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (AISC 360) AND AISC 360 (M, K/H/S) GALT, STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI-2002 SEC. 2.



TC LL	20.0 PSF	REF	R487--	96968
TC DL	10.0 PSF	DATE	11/28/06	
BC DL	10.0 PSF	DRW	HCUSR487	06332146
BC LL	0.0 PSF	HC-ENG	TCE/AF	*
TOT.LD.	40.0 PSF	SEQN	-	17605
DUR.FAC.	1.25			
SPACING	24.0"			

JRFF-1T2P4R7\_201

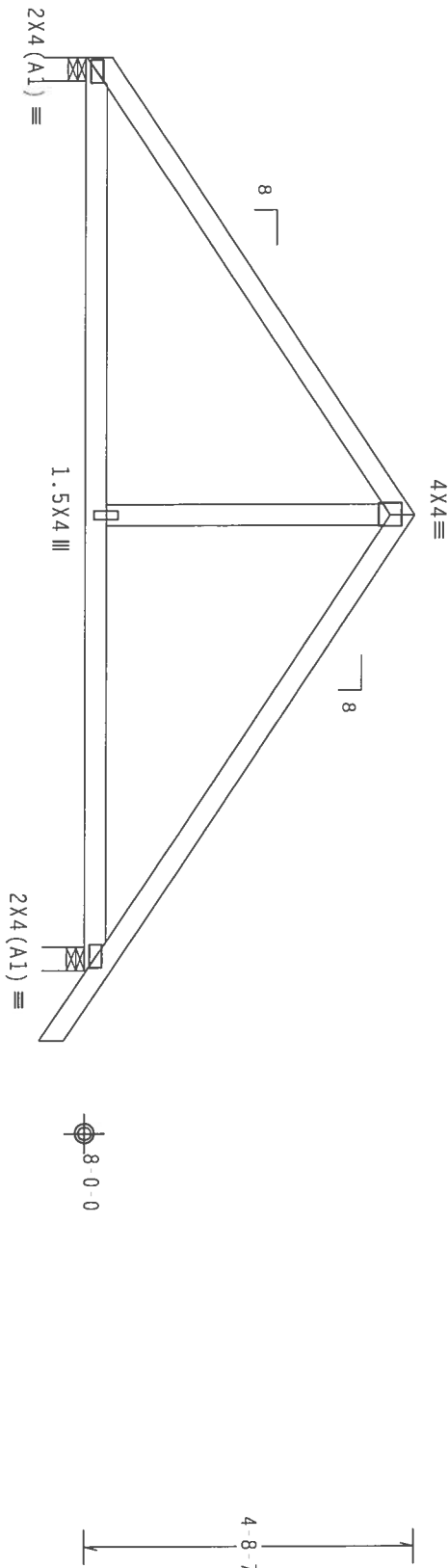
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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 7-02, 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.

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



6'-6"-0  
13'-0"-0 Over 2 Supports  
6'-6"-0  
1'-0"-0  
R=543 U=180 W=4"  
R=619 U=180 W=4"

PLT TYP. Wave

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

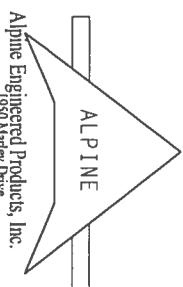
QTY: 1 FL/-/4/-/R/-

Scale = .375"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. TRUSSES MUST BE STORED UPRIGHT ON A FLAT SURFACE. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. TRUSSES MUST BE STORED UPRIGHT ON A FLAT SURFACE. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. TRUSSES MUST BE STORED UPRIGHT ON A FLAT SURFACE.

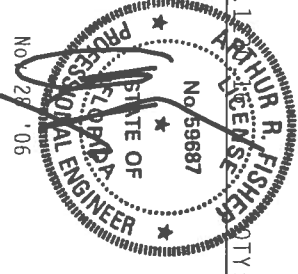
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (AISC 360 GRADE 50/60 (K, K/1.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 100A-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMES AS OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SEAL IS NOT VALID FOR ANY OTHER USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMSP/TPI 1 SEC. 2.



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

License # 1779487-201



TC LL	20.0 PSF	REF	R487-- 96969
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332147
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN	17608
DUR.FAC.	1.25		
SPACING	24.0"		



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

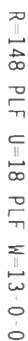
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

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

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

Scale = .375"/Ft.

ART HUR R. FISHER  
LICENSE  
No. 59687  
6x  
STATE OF  
TY

Alpine Engineered Products, Inc.

1950 Manney Drive  
Haines City, FL 33844  
Certificate of Registration

\* IMPORTANT \* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
DESIGN IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ALPINE  
TRUSS CORPORATION WITH APPLICABLE PROVISIONS OF ROCS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. ALPINE  
DESIGNS ARE BASED ON THE FOLLOWING ASSUMPTIONS: 60 PERCENT WIND LOAD, S50 X 135 GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSSES AND CHORD MEMBERS AT JOINTS AND CONNECTIONS.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICA AS OF TPI 92-002 SEC.3,  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
DESIGN SIGNAL. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER. PER AMERICAN TPI 1, SEC. 2.



TC LL	20.0 PSF	REF	R487-- 96970
TC DL	10.0 PSF	DATE	11/28/06
BC DL	10.0 PSF	DRW	HCUSR487 06332148
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	17614
DUR.FAC.	1.25		
SPACING	SFE ABOVE	JREF -	1T2P487_201

IRFF-IT2P487\_201

Top Chord 2x4 SP #2 Dense  
Bot Chord 2x6 SP #2  
Webs 2x4 SP #3

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at 0.00 to 64 PLF at 14.00  
BC - From 20 PLF at 0.00 to 20 PLF at 13.00  
BC - From 5 PLF at 13.00 to 5 PLF at 14.00  
BC - 1259 LB Conc. Load at 1.94, 3.94  
BC - 3330 LB Conc. Load at 5.94

Left end vertical not exposed to wind pressure.

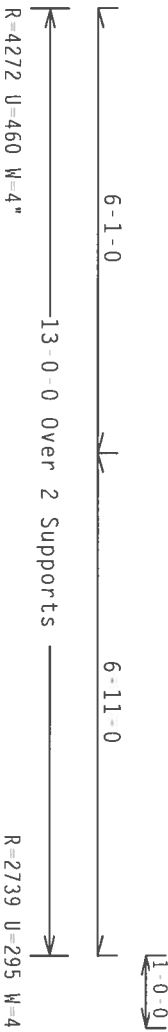
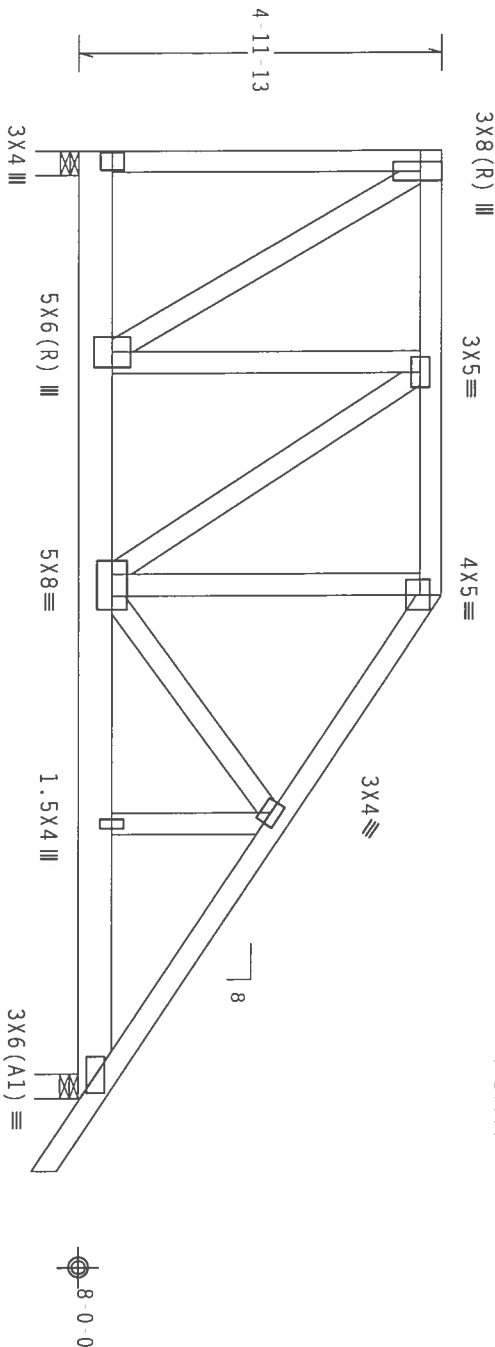
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @4.25" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf.

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

7.25

QTY: 1

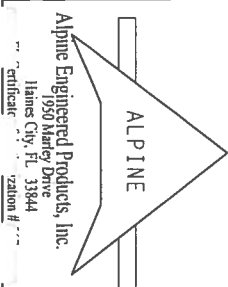
FL/-/4/-/-/R/-

Scale = .375" / Ft.

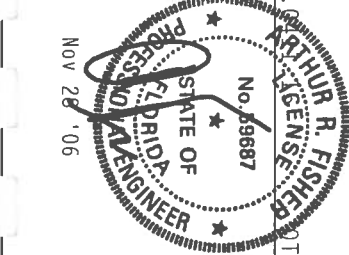
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, (TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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 FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. APPLY CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/1/55%) ASH 4063 GRADE 40/60 (W. K/1/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS T004 2.

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 APA) AND TPI. APPLY CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/1/55%) ASH 4063 GRADE 40/60 (W. K/1/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS T004 2. DRAWING INDICATES THE ACCEPTANCE OF THIS DESIGN FOR THE BUILDING DESIGNER'S USE. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
1950 Marley Drive  
Titusville, FL 32784  
Certification #



TC LL	20.0 PSF	REF R487-- 96971
TC DL	10.0 PSF	DATE 11/28/06
BC DL	10.0 PSF	DRW HCUSR487 06332151
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEON- 12689 REV
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JRFF- 1172P487_201

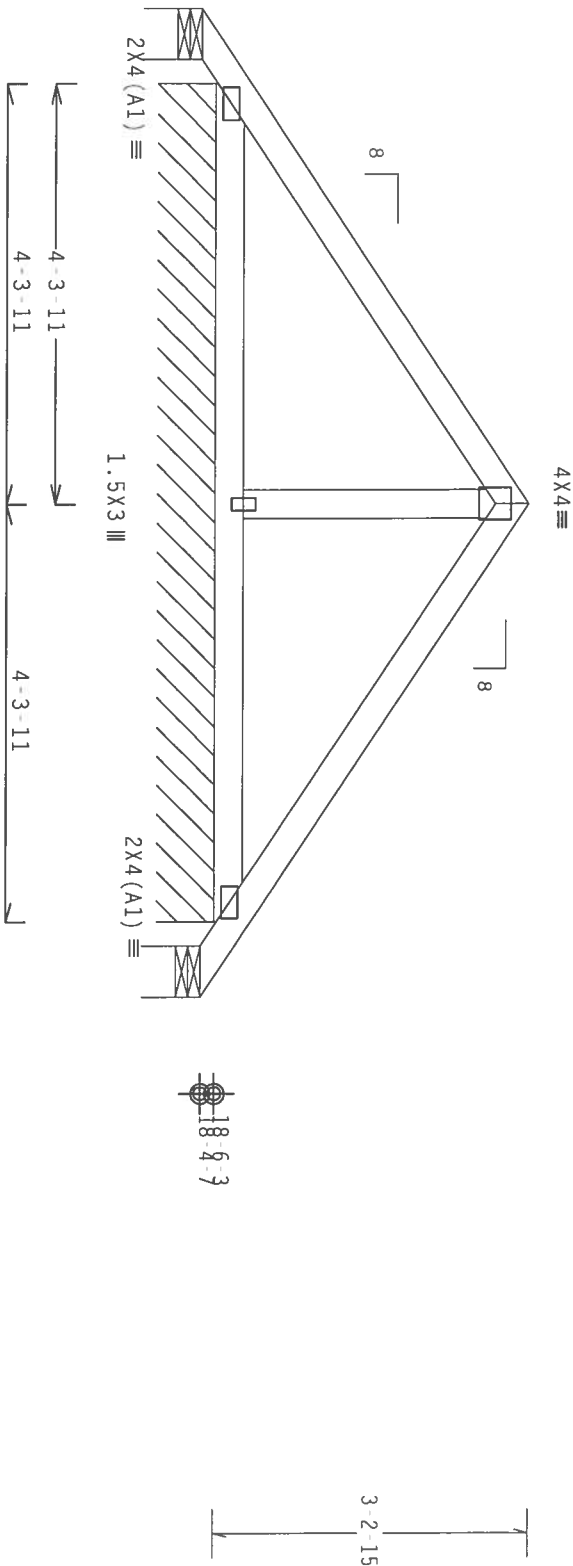
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback  
details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE  
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.07 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=1.2 psf.

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



R=66 U=180 W=6.31"  
R=91 PLF U=33 PLF W=8-7-7  
R=66 U=180 W=6.31"

PLT TYP. Wave

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

\*\*WARNING\*\* TRUSS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
BEFORE ERECTION, TRUSS SHALL BE STORED ON A FLAT SURFACE, PROTECTED FROM MOISTURE, AND SHALL BE  
ENTERPRISE, LANE, 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.

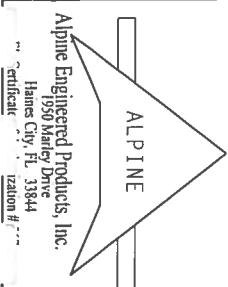
\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE  
TRUSS IN CONFORMANCE WITH TPI- OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AAI AND TPI- ALPINE  
CONNECTION PLATES ARE MADE OF 20/10/16GA (4.11/55K) ASH 4653 GRADE 40/60 (K/4.55) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS (6GA-2,  
AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AIA/AAI AS OF TPI-2002 SEC. 3. A SEAL ON THIS  
DRAWING INDICATES THE TRUSS CONSTRUCTION OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT  
DESIGN SPECIFICATIONS. THE TRUSS COMPONENT USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
BUILDING DESIGNER PER AIA/AAI TPI-1 SEC. 2.



FL/-/4/-/R/-

Scale = .5"/ft.

TC LL	20.0 PSF	REF R487-- 96972
TC DL	10.0 PSF	DATE 11/28/06
BC DL	2.0 PSF	DRW HCUSR487 06332070
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	32.0 PSF	SEON- 12680 REV
DUR.FAC.	1.25	
SPACING	24.0"	JIRFF- 117P487_201



Alpine Engineered Products, Inc.  
1950 Manley Drive  
Haines City, FL 33844  
Certification #

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

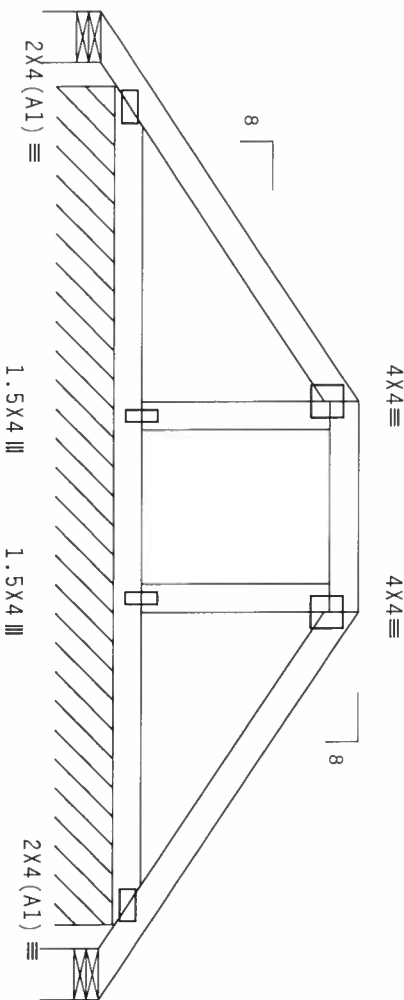
Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 19.70 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



R=28 U=180 W=6.31"  
R=83 PLF U=28 PLF W=8-7-7  
R=28 U=180 W=6.31"

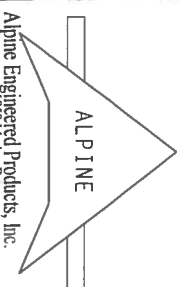
PLT TYP. Wave

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

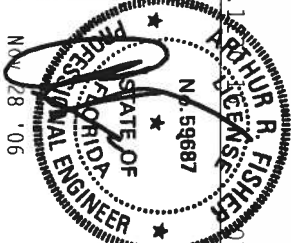
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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 FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&A) AND TPI. ALPINE ENGINEERED PRODUCTS ARE MADE OF 20/18/16GA (W/U/S/S) ASH OR 6653 GRADE 40/60 (W, K/U/S/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA 2.

ANY DEVIATION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AS OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE INSTALLATION 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.  
1990 Marley Drive  
Haines City, FL 33844



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

Scale = .5"/ft.

TC LL	20.0 PSF	REF R487--	96973
TC DL	10.0 PSF	DATE	11/28/06
BC DL	2.0 PSF	DRW HCUSR487	06332071
BC LL	0.0 PSF	HC-ENG TCE/AF	
TOT.LD.	32.0 PSF	SEON-	139412
DUR.FAC.	1.25		
SPACING	24.0"	IRFF-	117P487_201

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

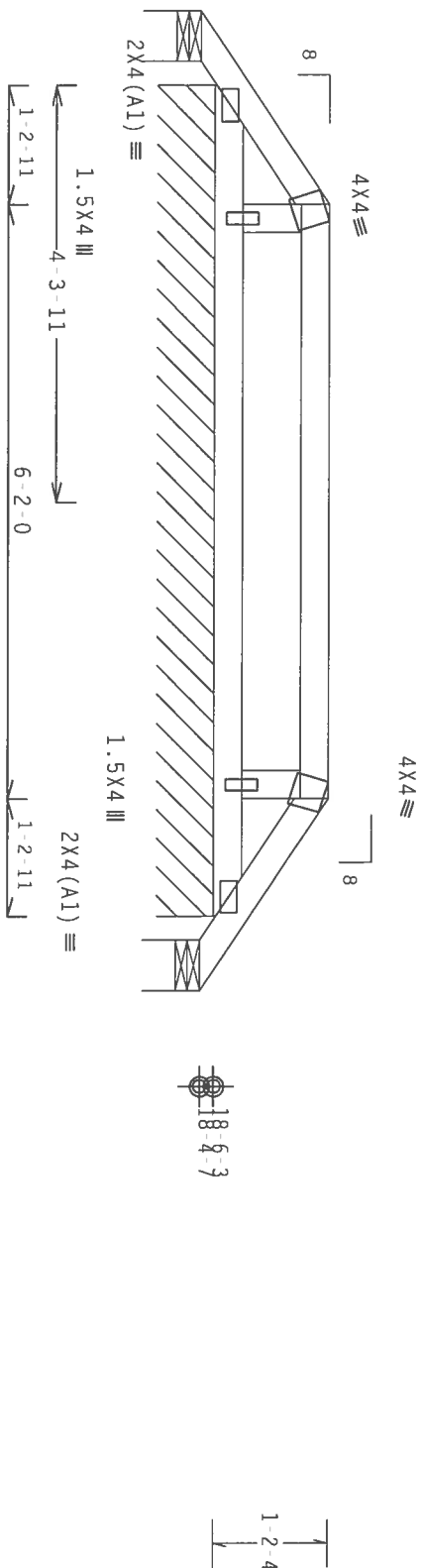
Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 19.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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



R=35 U=180 W=6.31"  
R=68 PLF U=21 PLF W=8-7-7  
R=35 U=180 W=6.31"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.1 RTV:1 FL/-/4/-/R/- Scale =.5"/ft.

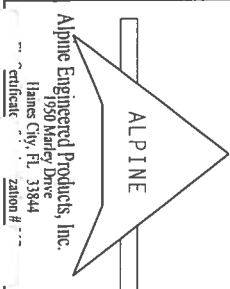
\*\*WARNING\*\* TRUSSES REQUIRE EXTERIOR GATE TO FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, BUILDING CODES, AND STANDARDS. ETC. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND RICA MOON BRASS CORP. OF AMERICA, 6300 ENTERPRISE LANE, 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 FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE

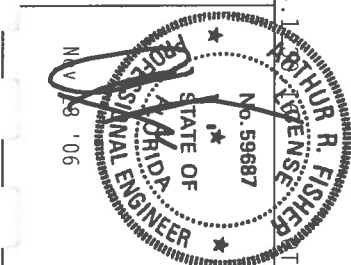
CONNECTION PLATES ARE MADE OF 20/18/16GA (U/H/SS/XY) ASH 4653 GRADE 40/60 (K, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A 2.

MADE IN THE U.S.A. BY TPI. TPI SHALL BE THE MANUFACTURER OF THIS DESIGN. A SEAL ON THIS TRUSS SHALL BE THE PROPERTY OF TPI. TPI SHALL BE THE MANUFACTURER OF THIS DESIGN. A SEAL ON THIS TRUSS SHALL BE THE PROPERTY OF TPI. TPI SHALL BE THE MANUFACTURER OF THIS DESIGN. A SEAL ON THIS TRUSS SHALL BE THE PROPERTY OF TPI.

THE BUILDING DESIGNER SHALL BE RESPONSIBLE 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  
Phone # 888-240-1111  
Fax # 888-240-1111  
Website: www.alpineeng.com



TC LL	20.0 PSF	REF	R487 - 96974
TC DL	10.0 PSF	DATE	11/28/06
BC DL	2.0 PSF	DRW	HCUSR487 06332072
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	32.0 PSF	SEON	139415
DUR.FAC.	1.25		
SPACING	24.0"	JRFF	1T2P487_201

# 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.

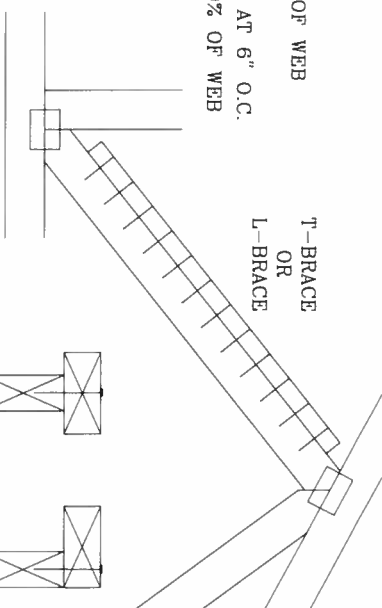
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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:

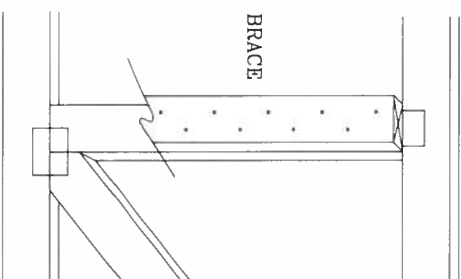
APPLY TO EITHER SIDE OF WEB  
NARROW FACE  
ATTACH WITH 16d NAILS AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB  
MEMBER LENGTH



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



THIS DRAWING REPLACES DRAWING 579.640

ALPINE  
ENGINEERED PRODUCTS, INC.  
POMPAHO BEACH, FLORIDA

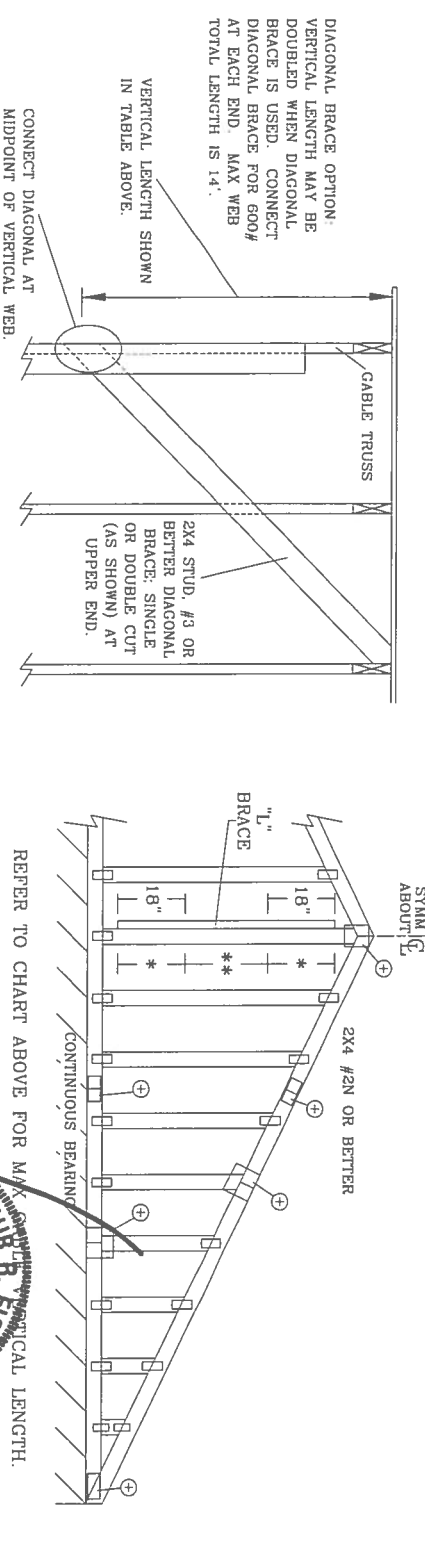
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE ALPINE TRUSS DESIGN MANUAL FOR THE LATEST REVISIONS. THE ALPINE TRUSS DESIGN MANUAL IS AVAILABLE FROM THE ALPINE TRUSS INSTITUTE, 593 DUNDAS DR. S.W., MADISON, WI 53719. FOR SAFETY 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 BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. THE TRUSS DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE TRUSS. THE TRUSS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE ALPINE TRUSS DESIGN MANUAL, 40/60 (C/A/H/S) GALV. STEEL, APPLY 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 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE 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.

ARTHUR R. FISHER  
No. 59887  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

MAX GABLE VERTICAL LENGTH																
2x4 GABLE VERTICAL SPACING			BRACE		NO BRACES		(1) 1x4 "L" BRACE *		(1) 2x4 "L" BRACE *		(2) 2x4 "L" BRACE **		(1) 2x6 "L" BRACE *		(2) 2x6 "L" BRACE **	
SPECIES			GRADE		GROUP A		GROUP B		GROUP A		GROUP B		GROUP A		GROUP B	
12" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"			
			#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"			
			STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"		
		HF	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	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"		
	SP	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	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"		
		DfL	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	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"		
		SPF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	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"		
16" O.C.	HF	STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	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"			
		SP	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	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"			
		DfL	STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	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"		
	SPF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	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"			
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"			
			STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	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"		
			#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"		
DfL	#3	STUD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	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"			



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-CAB11015

DATE 04/15/05

DRWG A11015EE0405

ENG

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		HEM-FIR	
SPRUCE-PINE-FIR	#1 / #2	STUD	#2
#3	STUD	STANDARD	#3
DOUGLAS FIR-LARCH		SOUTHERN PINE	
#3	STUD	STUD	#3
STANDARD	STUD	STANDARD	STUD
GROUP B:		HEM-FIR	
SOUTHERN PINE	#1	#1 & BTR	#1
#2	#2	#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR RO PLF OVER CONTINUOUS BEARING (5 PST TC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

\* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 16" END ZONES AND 4" O.C. BETWEEN ZONES.

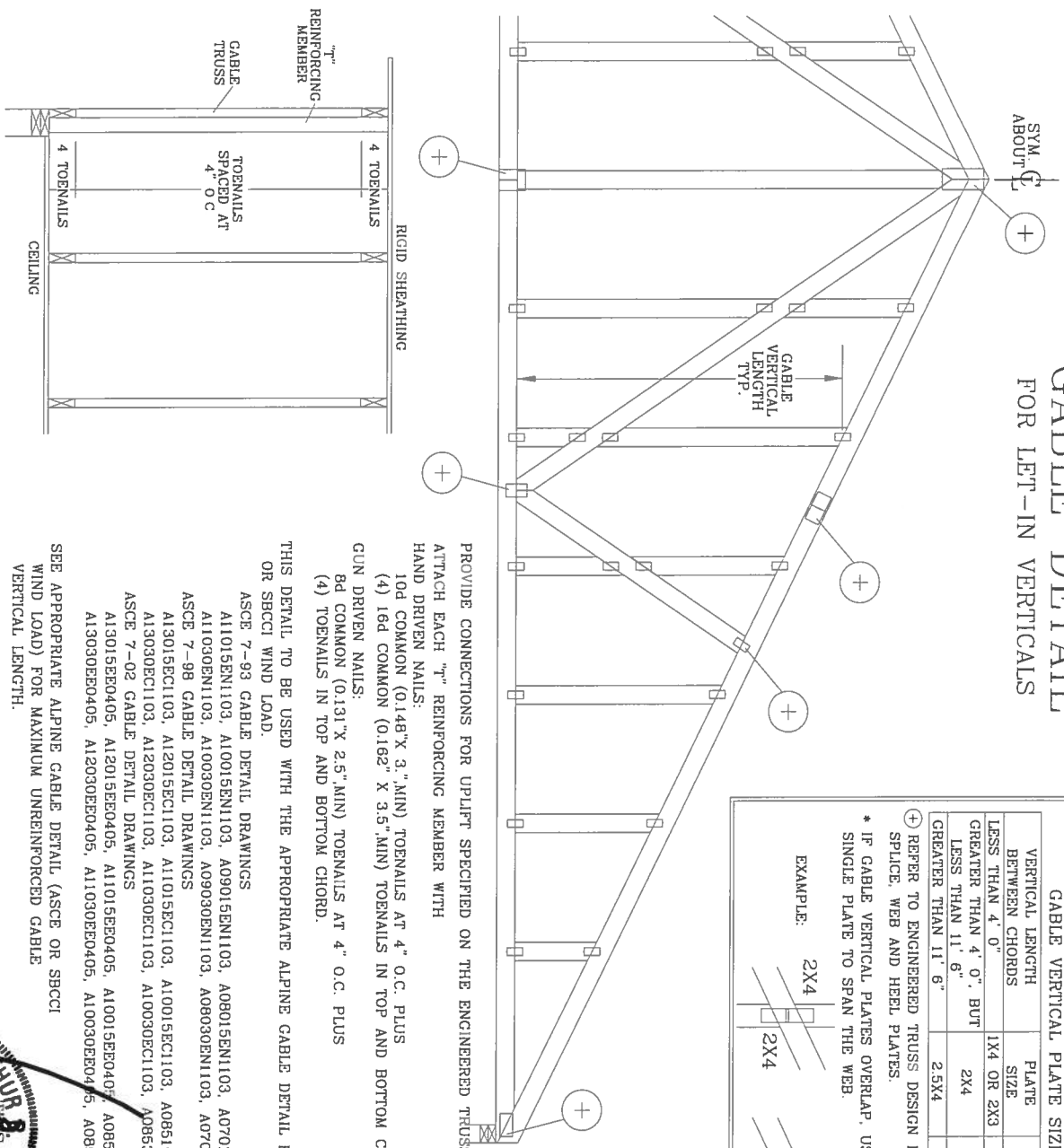
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 16" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH	NO SPLICE	1x4 OR 2x3	2x4
LESS THAN 4' 0"	LESS THAN 4' 0"	LESS THAN 4' 0"	LESS THAN 4' 0"
GREATER THAN 4' 0"	GREATER THAN 4' 0"	GREATER THAN 4' 0"	GREATER THAN 4' 0"
GREATER THAN 11' 6"	GREATER THAN 11' 6"	GREATER THAN 11' 6"	GREATER THAN 11' 6"

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

# CABLE DETAIL FOR LET-IN VERTICALS



**CABLE VERTICAL PLATE SIZES**

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

\* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK SPLICE, WEB AND HEEL PLATES.

\* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN. ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

- 10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS
- (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.
- GUN DRIVEN NAILS:
- (4) TOENAILS IN TOP AND BOTTOM CHORD.
- (4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

OR SBCCI WIND LOAD:

ASCE 7-93 GABLE DETAIL DRAWINGS:

- A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
- A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS:

- A13015EC1103, A12015EC1103, A11015EC1103, A08015EC1103
- A13030EC1103, A12030EC1103, A11030EC1103, A08030EC1103

ASCE 7-02 GABLE DETAIL DRAWINGS:

- A13015EB0405, A12015EB0405, A11015EB0405, A10015EB0405, A08015EB0405, A13030EB0405, A12030EB0405, A11030EB0405, A10030EB0405, A08030EB0405

SEE APPROPRIATE ALPINE CABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

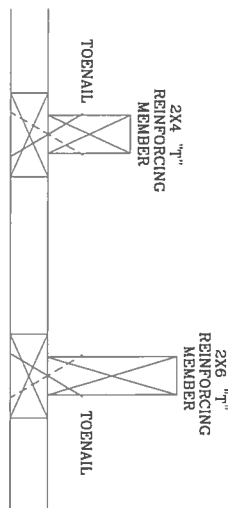
GABLE VERTICAL = 24" O.C. SP #3

"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 1.10 x 6' 7" = 7' 3"

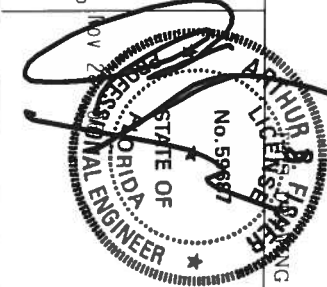


**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BEST 1-93 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DONDRIOD DR., 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.

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REPLACES DRAWINGS GAB98117 876,719 & HC26294035

MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTIN0405
-ENG	DLJ/KAR



# BEARING BLOCK NAIL SPACING DETAIL

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

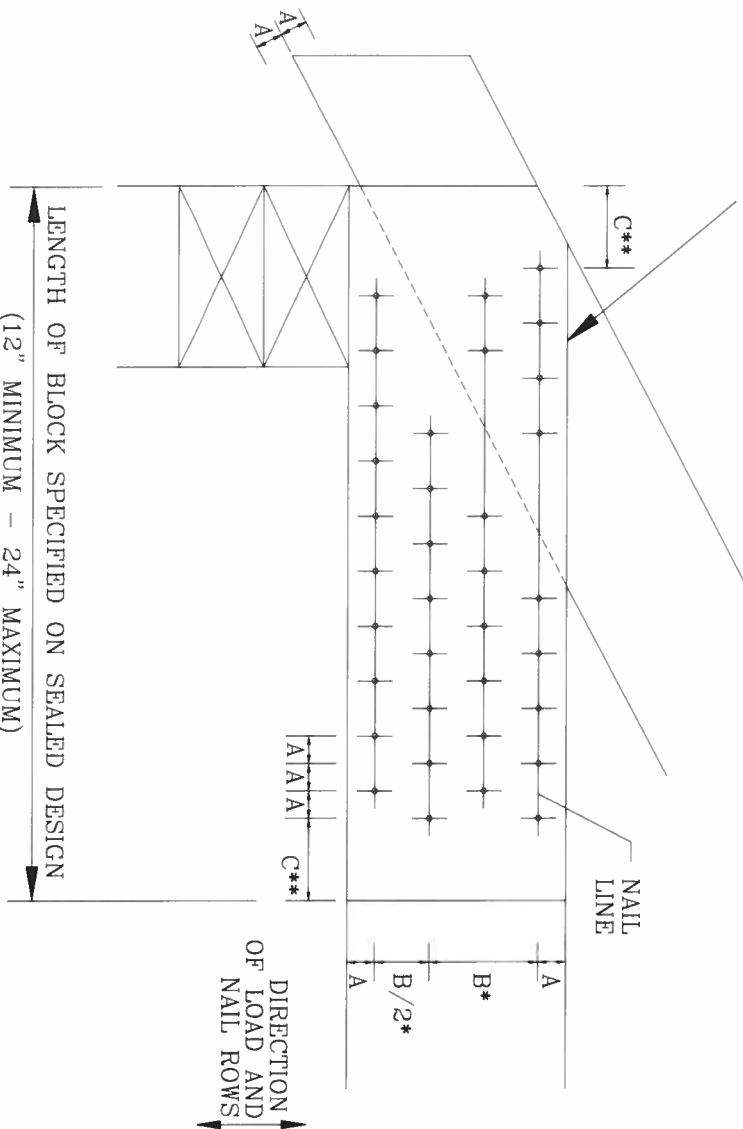
MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

- 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.



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 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"	

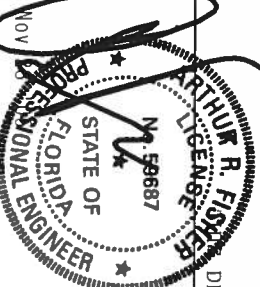
DRAWING REPLACES DRAWING B139 AND CNBRGK0699



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POMPAHO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 563 DUNFORD DR., SUITE 200, HADISON, VT 55719, AND WTC (WOOD TRUSS COUNCIL DESIGN), 6500 ENTERPRISE LN, HADISON, VT 55719, FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. UNLESS OTHERWISE INDICATED, OR 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 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. 10/60 (C/A/H/S) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED OR PER SPEC, DESIGN, POSTION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY OF THE TRUSS COMPONENT SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC 2



REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGK1103
-ENG	SJP/KAR

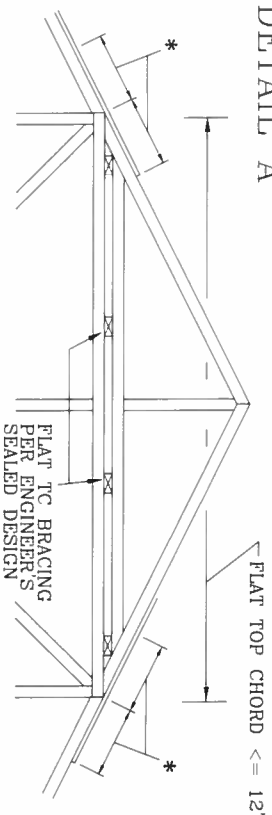
# PIGGYBACK DETAIL

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG.  
 LOCATED ANYWHERE IN ROOF, CAT II, EXP C,  
 WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC,  
 ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF  
 WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

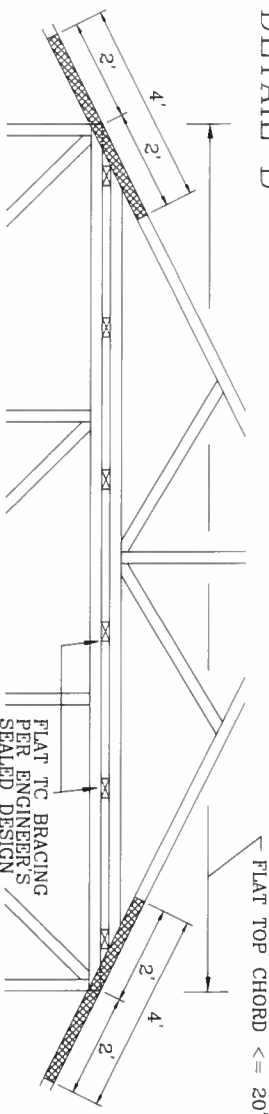
## DETAIL A



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

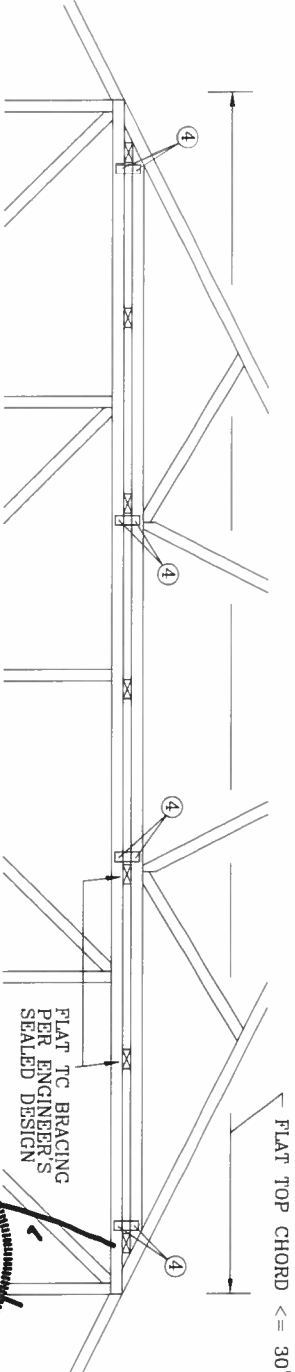
\* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

## DETAIL B



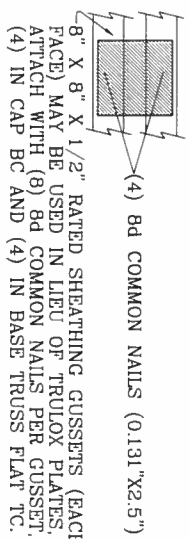
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

## DETAIL C



CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3x8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.

IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.



THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

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TOP CHORD 2X4 #2 OR BETTER  
BOT CHORD 2X4 #2 OR BETTER  
WEBS 2X4 #3 OR BETTER

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C,

WIND TC DL=5 PSF, WIND BC DL=5 PSF

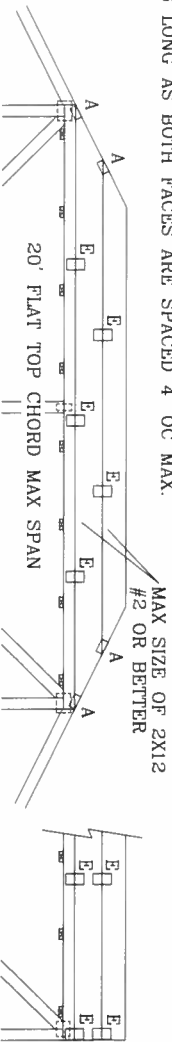
110 MPH WIND, 30' MEAN HGT, SBC

ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

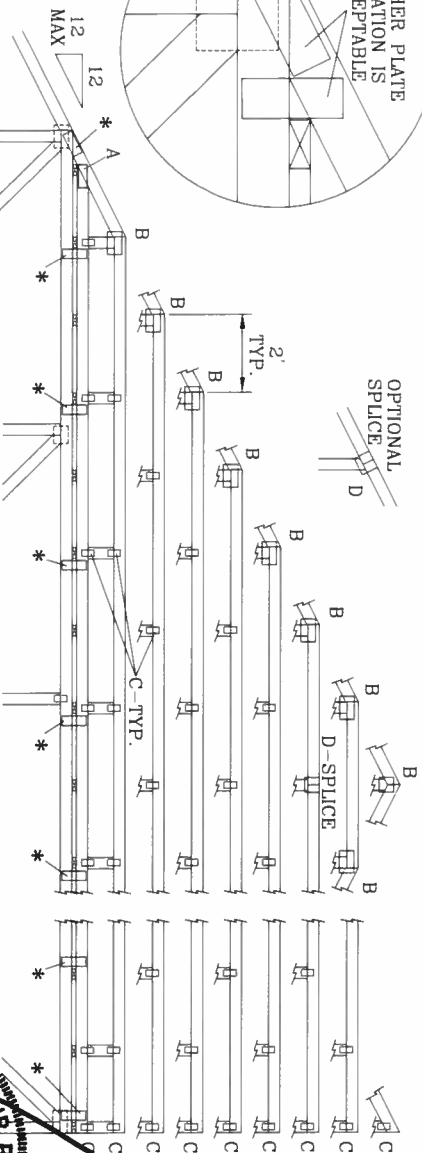
FRONT FACE (E.\*) PLATES MAY BE OFFSET FROM BACK FACE

PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



EITHER PLATE LOCATION IS ACCEPTABLE

OPTIONAL SPLICE



\*ATTACH PIGGYBACK WITH 3X8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DUNDRIE DR., SUITE 200, MADISON, WI 53719 AND VITA CLOUD 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.

ALPINE

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POMPANO BEACH, FLORIDA

(4) 6d BOX (0.099" X 2" MIN) NAILS.  
"B" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRUSS PLATES, ATTACH WITH (8) 6d BOX (0.099" X 2" MIN) NAILS PER GUSSET.  
(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

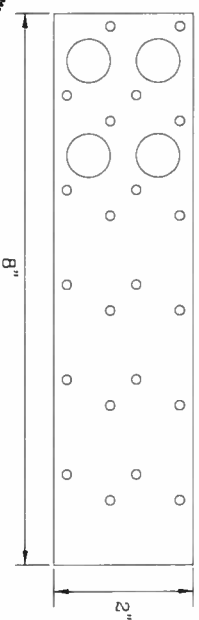
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

ATTACH TRUSS PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC.

\* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



WING REPLACES DRAWINGS 634.016 634.017 & 847.045

MAX LOADING	REF	PIGGYBACK
56 PSF AT	DATE	04/14/05
1.33 DUR. FAC.	DRWG	PIGGYBACKB0405
50 PSF AT	ENG	DLJ/KAR
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"

