

# 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: ISTF487-Z0530165354

Truss Fabricator: Anderson Truss Company

Job Identification: 5-547-MIKE BENNETT

Truss Count: 32

Model Code: Florida Building Code 2004

Truss Criteria: ANSI/TPI-2002(STD)/FBC

Engineering Software: Alpine Software, Version 7.22.

Structural Engineer of Record:

Address:

Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: BRCLBSUB



Seal Date: 12/30/2005

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

1950 Marley Drive

Haines City, FL 33844

| #  | Ref     | Description | Drawing# | Date     |
|----|---------|-------------|----------|----------|
| 1  | 27197-- | A1-GE       | 05363181 | 12/29/05 |
| 2  | 27198-- | A2          | 05363152 | 12/29/05 |
| 3  | 27199-- | A3          | 05363153 | 12/29/05 |
| 4  | 27200-- | A4          | 05363154 | 12/29/05 |
| 5  | 27201-- | A5G         | 05363155 | 12/29/05 |
| 6  | 27202-- | A6          | 05363156 | 12/29/05 |
| 7  | 27203-- | A7          | 05363157 | 12/29/05 |
| 8  | 27204-- | A8          | 05363158 | 12/29/05 |
| 9  | 27205-- | A9-GE       | 05363182 | 12/29/05 |
| 10 | 27206-- | B1          | 05363159 | 12/29/05 |
| 11 | 27207-- | B2          | 05363160 | 12/29/05 |
| 12 | 27208-- | B3          | 05363151 | 12/29/05 |
| 13 | 27209-- | B4G         | 05363161 | 12/29/05 |
| 14 | 27210-- | C1          | 05363162 | 12/29/05 |
| 15 | 27211-- | C2          | 05363163 | 12/29/05 |
| 16 | 27212-- | C3          | 05363164 | 12/29/05 |
| 17 | 27213-- | C4          | 05363165 | 12/29/05 |
| 18 | 27214-- | C5          | 05363166 | 12/29/05 |
| 19 | 27215-- | C6G         | 05363167 | 12/29/05 |
| 20 | 27216-- | FGA         | 05363168 | 12/29/05 |
| 21 | 27217-- | D1          | 05363169 | 12/29/05 |
| 22 | 27218-- | D2          | 05363170 | 12/29/05 |
| 23 | 27219-- | D3          | 05363180 | 12/29/05 |
| 24 | 27220-- | D4G         | 05363171 | 12/29/05 |
| 25 | 27221-- | HJ7         | 05363172 | 12/29/05 |
| 26 | 27222-- | EJ7         | 05363173 | 12/29/05 |
| 27 | 27223-- | J7          | 05363174 | 12/29/05 |
| 28 | 27224-- | J5          | 05363175 | 12/29/05 |
| 29 | 27225-- | J3          | 05363176 | 12/29/05 |
| 30 | 27226-- | J1          | 05363177 | 12/29/05 |
| 31 | 27227-- | HJD         | 05363178 | 12/29/05 |
| 32 | 27228-- | AP1         | 05363179 | 12/29/05 |



# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Page 1 of 1 Document ID: ISTF487-Z0530165354

Truss Fabricator: Anderson Truss Company  
Job Identification: 5-547-MIKE BENNETT (5-547|-MIKE BENNETT)  
Truss Count: 3  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.22.  
Structural Engineer of Record:  
Address:  
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

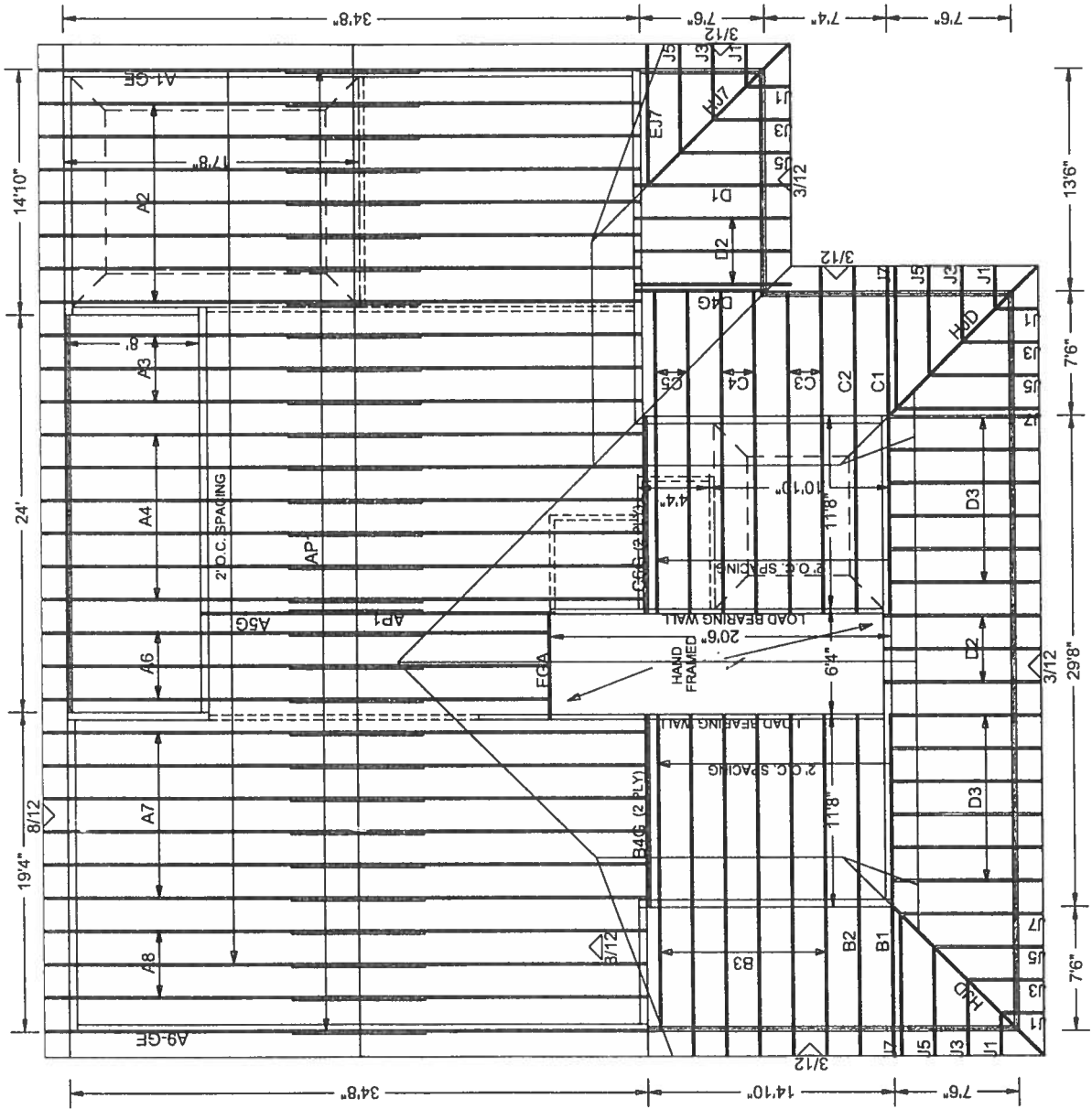
Seal Date: 12/30/2005

-Truss Design Engineer-  
Arthur R. Fisher  
Florida License Number: 59687  
1950 Marley Drive  
Haines City, FL 33844

## Revised Trusses

| # | Ref          | Description | Drawing# | Date     |
|---|--------------|-------------|----------|----------|
| 1 | 27197--A1-GE |             | 05363181 | 12/29/05 |
| 2 | 27205--A9-GE |             | 05363182 | 12/29/05 |
| 3 | 27215--C6G   |             | 05363167 | 12/29/05 |





12/28/05

#5-547 MIKE BENNETT

Scale: 3/32" = 1'

352-494-7838

Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.

(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.

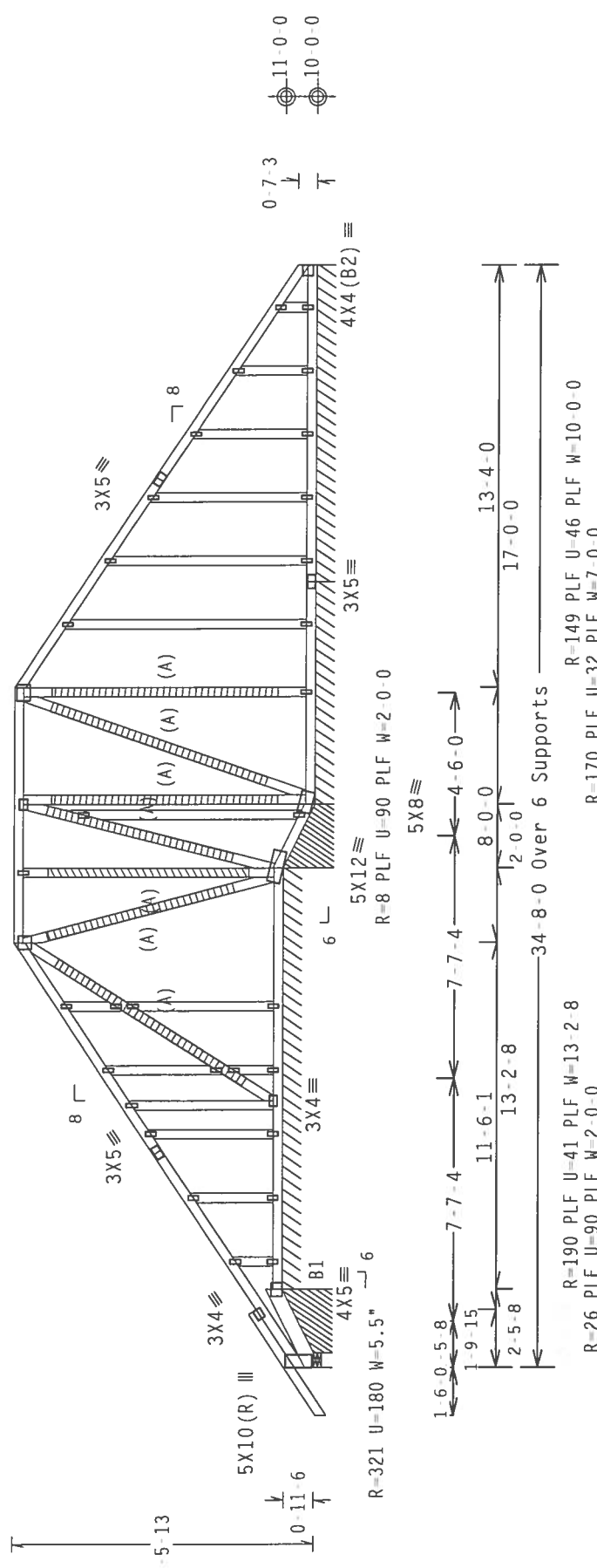
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense :B1 2x6 SP #2:  
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located  
anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC  
DL=0.0 psf.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Shim all supports to solid bearing.



Note: All Plates Are 1.5X4 Except As Shown.

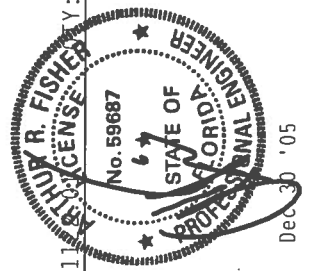
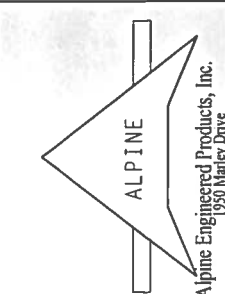
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.25(1.25)/0(0) 7.22.11

Scale = .1875"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719), AND NFCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE TRUSSES ARE DESIGNED TO BE USED IN CONFORMANCE WITH THE AISC AND TPI SPECIFICATIONS. APPLICABLE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, ALL PLATES SHALL BE 1.5X4. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AISC A3 OF TPI 2002 SEC. 3.1. ANY INSPECTION OF PLATES FOLLOWED BY (2) SHALL BE PER AISC A3 OF TPI 2002 SEC. 3.1. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN.



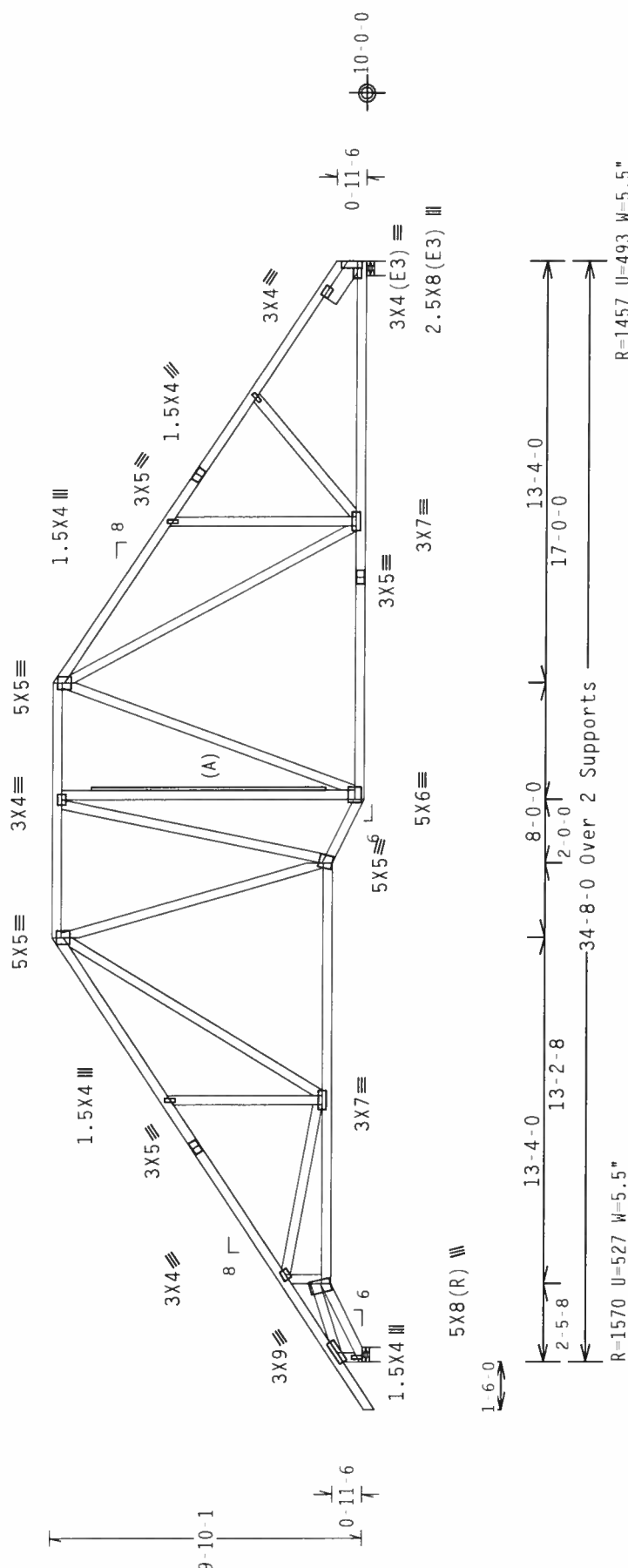
|          |          |                        |
|----------|----------|------------------------|
| TC LL    | 20.0 PSF | FL / - / 4 / - / R / - |
| TC DL    | 10.0 PSF | REF R487 - - 27197     |
| BC DL    | 10.0 PSF | DATE 12/29/05          |
| BC LL    | 0.0 PSF  | DRW HCUSR487 05363181  |
| TOT.LD.  | 40.0 PSF | HC-ENG DAL/AF          |
| DUR.FAC. | 1.25     | SEQN- 71284 REV        |

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED Bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

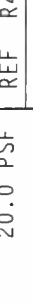
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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



Design Crit: TPI-2002(STD)/FBC

Scale = .1875"/Ft.



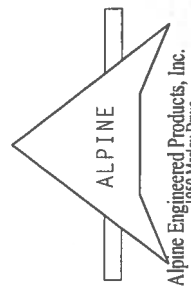
Alpine Engineered Products, Inc.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BESS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPT (TRUSS PLATF. INSTITUTE, 383 D'ONOFIO DR., SUITE 300, MADISON, WI 53719), AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** 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 THIS OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, OR PROVIDING PROTECTIONS OF TRUSS (NATIONAL DESIGN SPEC., BY AIRPS) AND IPT. ALPINE CONNECTOR PLATES ARE MADE TO GO TO 1/16" TOLERANCE. ALL TRUSSES SHALL BE GALVANNEAL. ALL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. FOLLOW ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER A3 OF IPT1 2002 SEC.3 A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT.

**PROFESSIONAL ENGINEER**  
**STATE OF FLORIDA**  
**No. 5687**

**Dec 30 '05**





Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'  
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

(B) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(A) Continuous lateral bracing equally spaced on member. Or 2x6 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

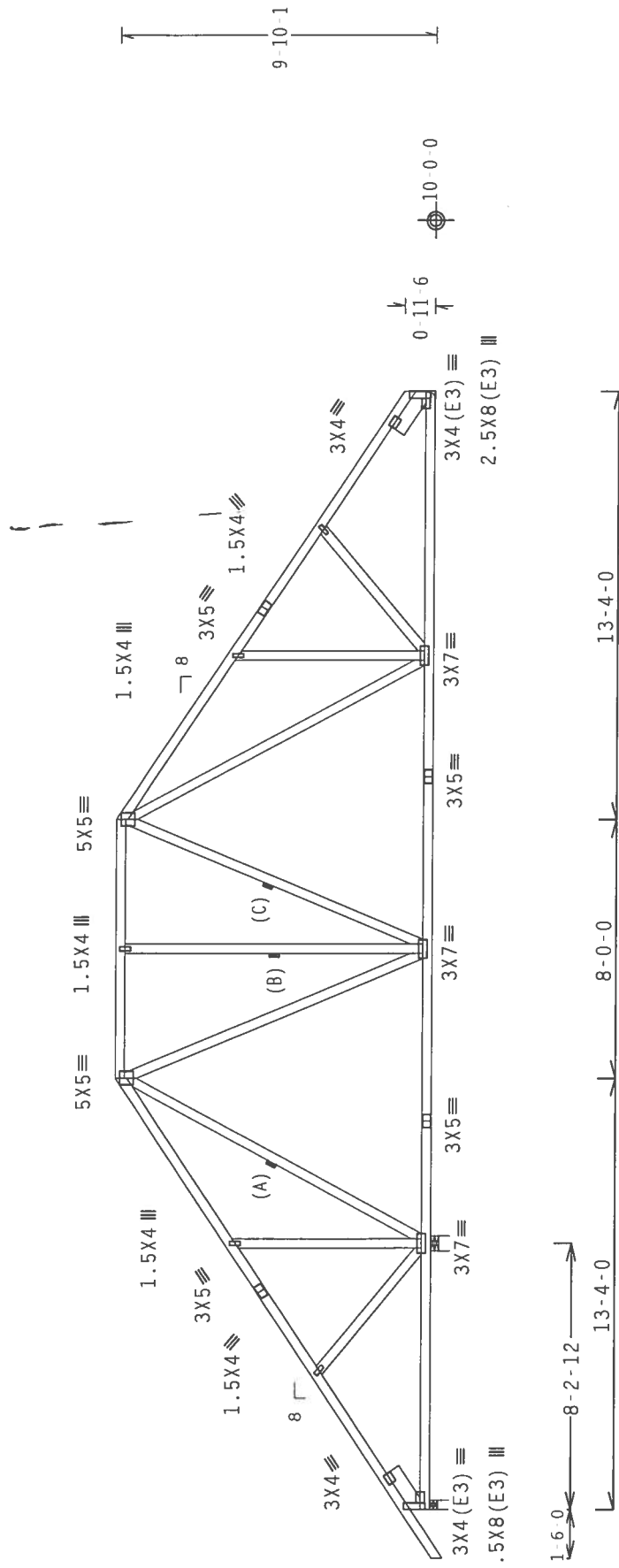
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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=0.0 psf, wind BC DL=0.0 psf.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(C) Continuous lateral bracing equally spaced on member. Or 2x4 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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



R-371 U=180 W=3.5" R=1561 U=536 W=5.5"

R-1084 U=366 H=Simpson LUS26  
w/ (4) 10d Common, 0.148"x3.0" nails in Truss  
w/ (4) 10d Common, 0.148"x3.0" nails in Girder  
Order is (1)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.25(1.25)/0(0) 7.22.11

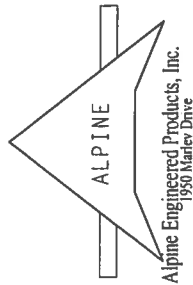
Scale = .1875"/Ft.

PLT TYP. Wave

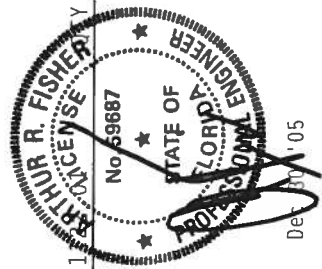
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ORFORD DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (4-H/5/15) ASTM A563 GRADE 40/68 IN. KIPS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE CREDIBILITY AND USE OF THIS DOCUMENTARY FOR THE TRUSS COMPONENT DESIGN SHALL BE THE RESPONSIBILITY OF THE USER.

|          |          |        |                   |       |
|----------|----------|--------|-------------------|-------|
| TC LL    | 20.0 PSF | REF    | R487 --           | 27200 |
| TC DL    | 10.0 PSF | DATE   | 12/29/05          |       |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 05363154 |       |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF            |       |
| TOT.LD.  | 40.0 PSF | SEQN   | 21355             |       |
| DUR.FAC. | 1.25     |        |                   |       |



Def ~~30~~'05





Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Studded Wedge 2x8 SP SS:

H - recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(A) Continuous lateral bracing equally spaced on member. Or 2x6 SP #3 or better "I" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

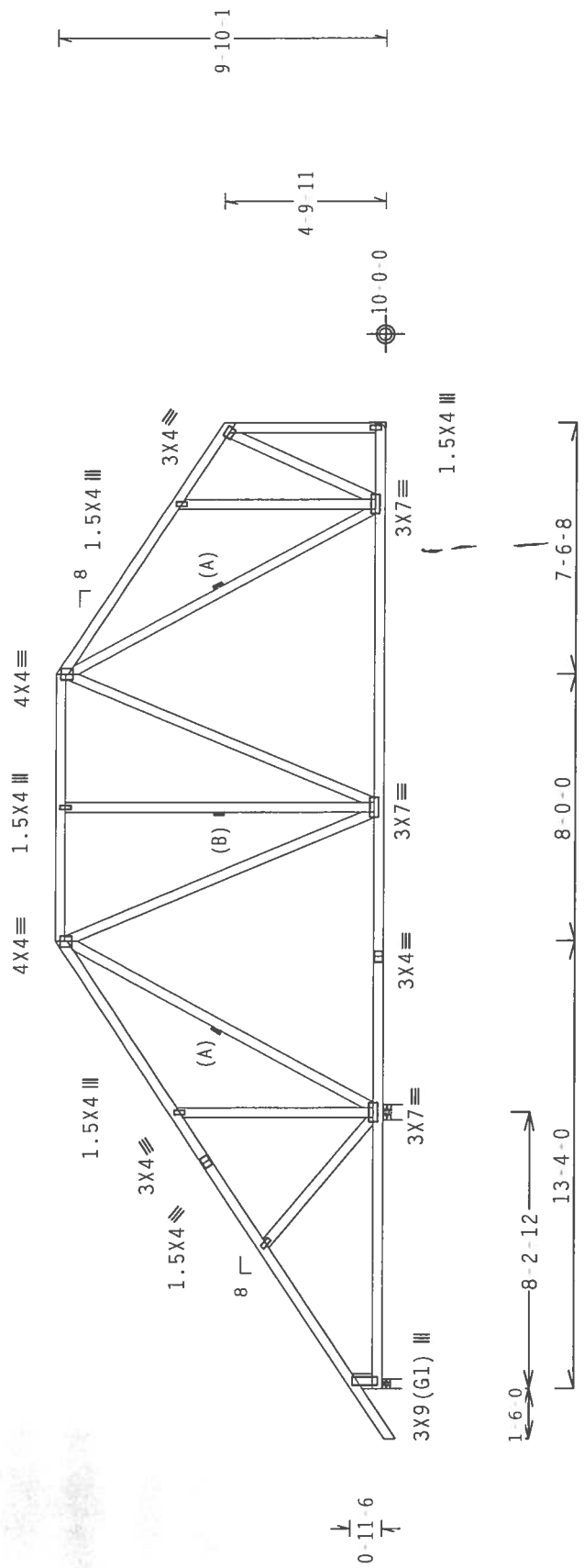
110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

(B) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "I" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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



R-447 U-180 W=3.5" R-1220 U-413 W=5.5"  
28-10-8 Over 3 Supports

R-863 U-301 H-Simpson LUS26  
w/ (3) 10d Common, 0.148"x3.0" nails in Truss  
w/ (4) 10d Common, 0.148"x3.0" nails in Girder  
Girder is (1)2X6 min. So.pine

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.25(1.25)/0(0) 7.22.11

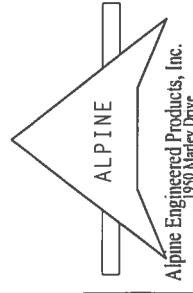
Scale = .1875"/Ft.



|          |          |        |          |          |
|----------|----------|--------|----------|----------|
| TC LL    | 20.0 PSF | REF    | R487 --  | 27202    |
| TC DL    | 10.0 PSF | DATE   | 12/29/05 |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 | 05363156 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF   |          |
| TOT.LD.  | 40.0 PSF | SEQN   | 21418    |          |
| DUR.FAC. | 1.25     |        |          |          |

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\*\*\*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 ATRPA AND TPI. APPLY CONNECTOR PLATES ARE REQUIRED 20/10/16GA (W-11/5X) ASH A663 GRADE 40/60 (H. K/1.5) GALV. STEEL. ANY INSPECTION OF PLATES FOLLOWED BY THIS DESIGNER OR HIS DESIGNER SHALL BE PERFORMED IN ACCORDANCE WITH DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT



Dec 30 '05

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1-500'  
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1-500'

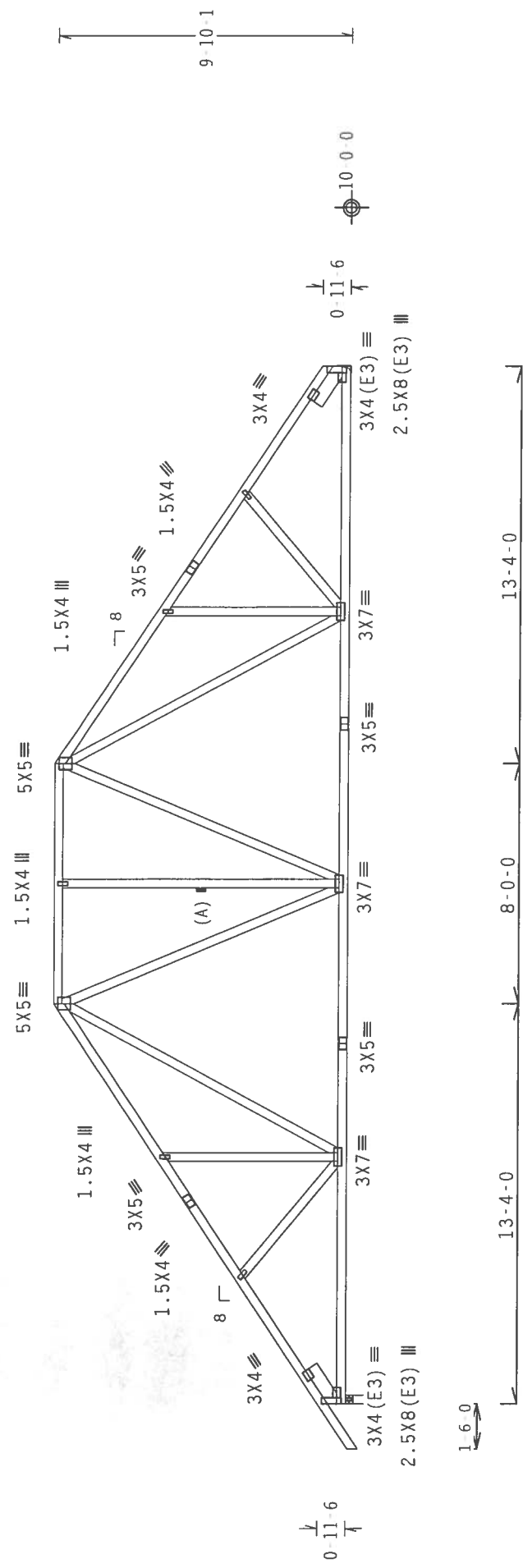
(A) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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



R-1562 U=529 W=3.5"

34-8-0 Over 2 Supports

R-1454 U-493 H=Simpson HUS26  
w/ (4) 10d Common, 0.148"x3.0" nails in Truss  
w/ (14) 10d Common, 0.148"x3.0" nails in Girder  
Girder is (1)2X6 min. So.Pine

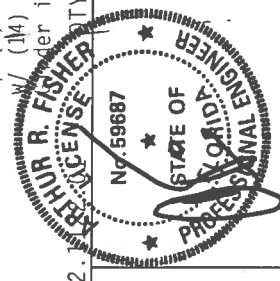
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.25(1.25)/0(0) 7.22

PLT TYP. Wave

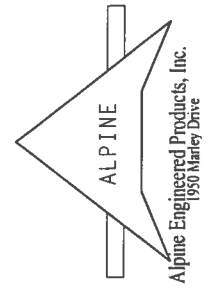
Scale = .1875"/Ft.

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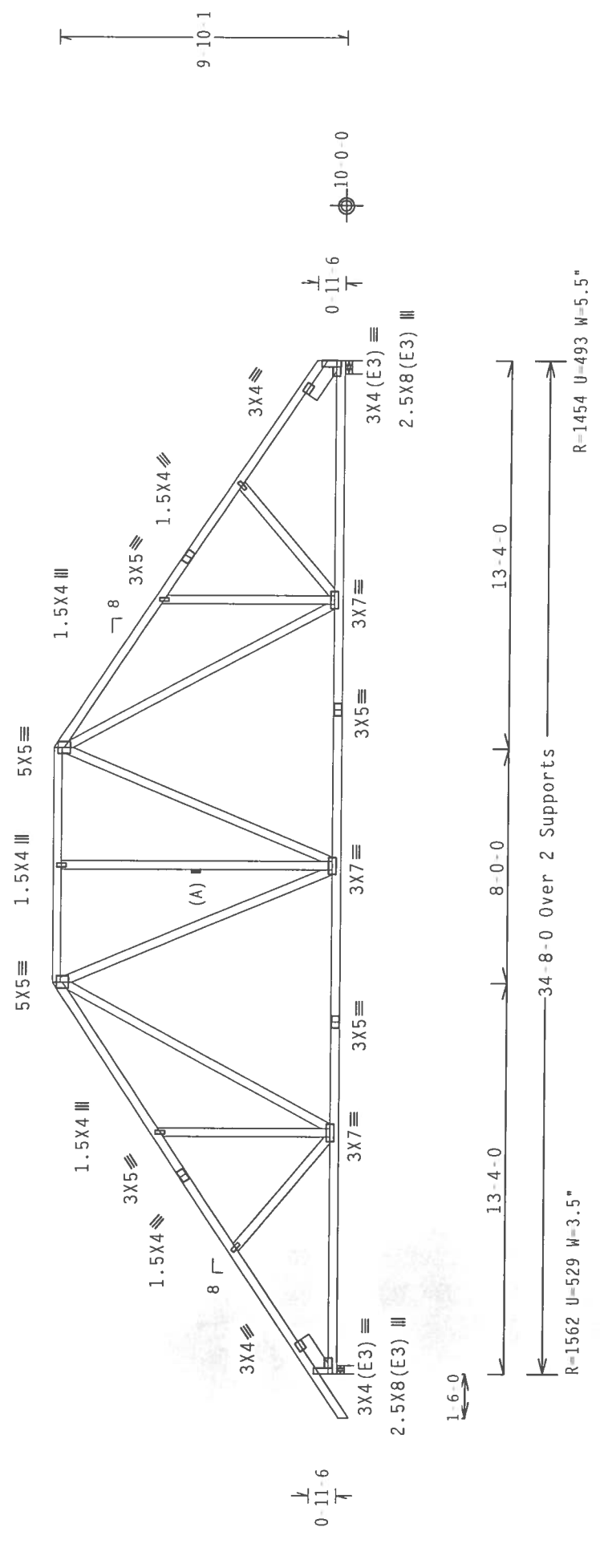


|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R487 -- 27203     |
| TC DL    | 10.0 PSF | DATE 12/29/05         |
| BC DL    | 10.0 PSF | DRW HCUSR487 05363157 |
| BC LL    | 0.0 PSF  | HC-ENG DAL/AF         |
| TOT.LD.  | 40.0 PSF | SEON- 21345           |
| DUR.FAC. | 1.25     |                       |



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1-500'  
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1-500'  
In lieu of structural panels use purlins to brace all flat TC @ 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=0.0 psf, wind BC DL=0.0 psf.  
(A) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace, 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.25(1.25)/0(0) 7.22.11

Scale = .1875" / Ft.

|          |          |        |          |          |
|----------|----------|--------|----------|----------|
| TC LL    | 20.0 PSF | REF    | R487--   | 27204    |
| TC DL    | 10.0 PSF | DATE   | 12/29/05 |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 | 05363158 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF   |          |
| TOT.LD.  | 40.0 PSF | SEQN-  | 21370    |          |
| DUR:FAC. | 1.25     |        |          |          |

Dec 30 '05

ALPINE  
Alpine Engineered Products, Inc.  
1950 Marley Drive

Professional Engineer  
R. FISHER  
No. 59687  
STATE OF FLORIDA  
Professional Engineer

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 1043 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND NIECA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, MATERIALS, WORKMANSHIP, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVIDER'S SPECIFICATIONS AND ALL APPLICABLE CODES. CONNECTION PLATES ARE MADE OF 2018/T666 (A) 1/2" X 1/2" X 1/2" GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3.1. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN.

ALPINE

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

## SPECIAL LOADS

|           | (LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25) |                  |  |
|-----------|--------------------------------------------------|------------------|--|
| TC - From | 61 PLF at 1.50 to                                | 61 PLF at 7.50   |  |
| IC - From | 30 PLF at 7.50 to                                | 30 PLF at 9.90   |  |
| TC - From | 51 PLF at 9.90 to                                | 51 PLF at 19.17  |  |
| 8C - From | 4 PLF at 1.50 to                                 | 4 PLF at 0.00    |  |
| 8C - From | 20 PLF at 0.00 to                                | 20 PLF at 7.50   |  |
| 8C - From | 151 PLF at 7.50 to                               | 151 PLF at 19.17 |  |
| 8C -      | 569 LB Conc. Load at                             | 7.50             |  |

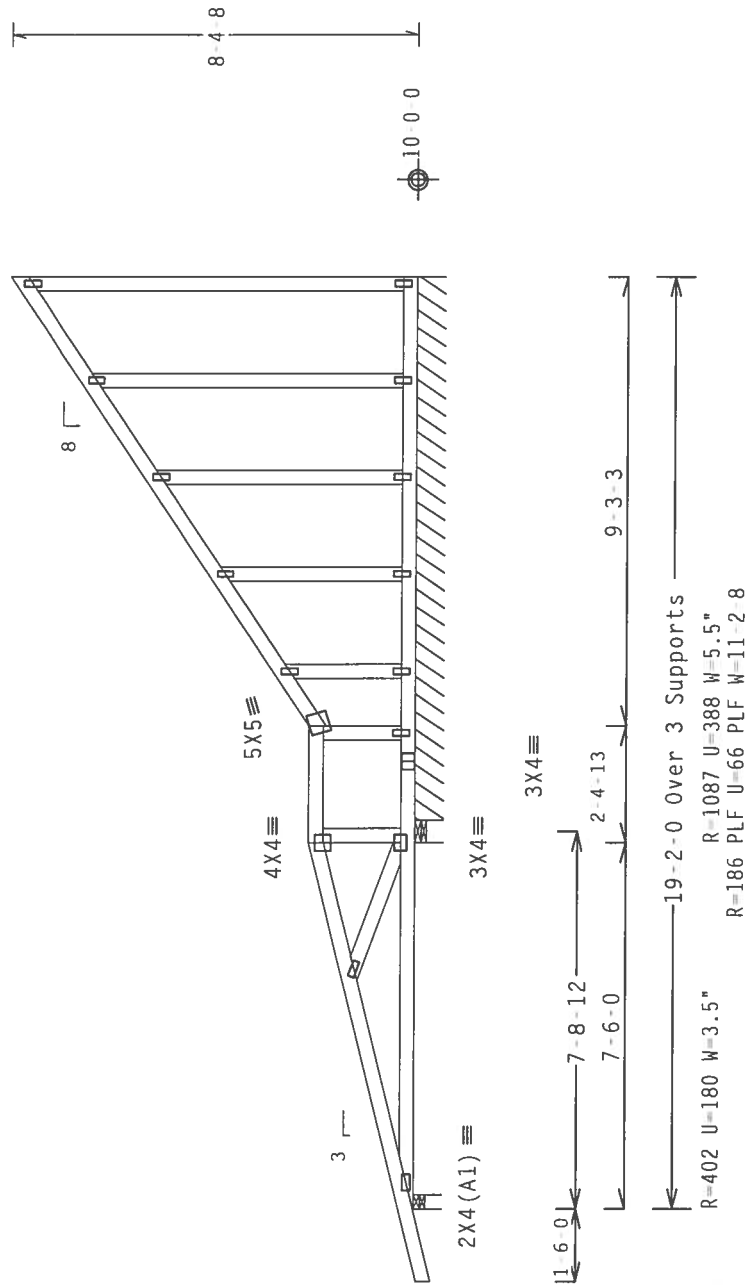
Refer to drawing GE-003 or HC26294035 for stud verticals and bracing details. Gable end has been designed to transfer all horizontal wind loads into the roof and ceiling diaphragms. Connection and design of these systems are the responsibility of the building designer.

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=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Design C11:  $\text{Cq}/RT=1.25(1.25)/0(0)$  7.22

PLT TYP. Wave

Scale = .25"/Ft.

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BE511.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE CRISTALL PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE BL., 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.

REF R487 -- 27206

TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

DATE 12/29/05

BECAUSE THESE HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BUTION CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

[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

ORW HCU5R48/ 05363159

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

HC-ENG DAL/AF

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.11/5/K) ASTM A653 GRADE 40/60 (W. K/11.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, (LESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16DA 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI 2003 SECTION 3. A SEAL ON THE

SEQN- 21155

**DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE BRUSS COMPONENT DESIGN**

Dec 30 '05

Alpine Engineered Products, Inc.  
1950 Marley Drive

**ALPINE**  
Alpine Engineered Products, Inc.  
1050 Market Drive



Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3  
:Lt Slider 2x4 SP #3: BLOCK LENGTH - 1.500'

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC-DL=0.0 psf, wind BC-DL=0.0 psf.

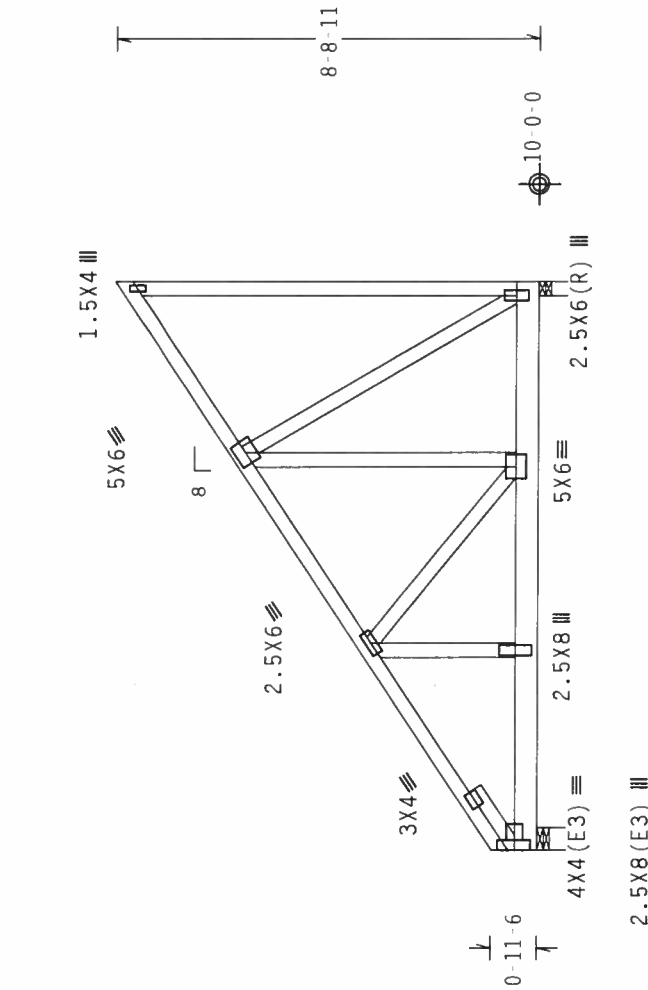
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common, 0.148"x3", min.)\_nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @ 5.50" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails  
 in each row to avoid splitting.

Right end vertical not exposed to wind pressure.

Girder supports 34-8-0 span to BC one face and 2-0-0 span to TC/BC split opposite face.



← 11-8-0 Over 2 Supports →

R=4458 U=1515 W=5.5"      R=4458 U=1515 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

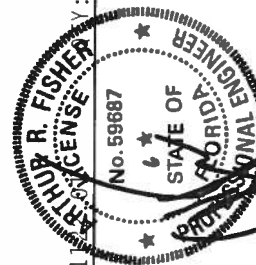
| FI 2002 (31.6) / FDB | Cg/RT=1.25(1.25)/0(0) | 7.22.11 |
|----------------------|-----------------------|---------|
|                      |                       |         |

FI 1-141-1-181-

Scale = 25"/ft

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

IMPORTANT:—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALTHOUGH ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGNING OF TRUSSING AND TRUSSES SHALL BE IN ACCORDANCE WITH THE DESIGN OF TRUSSES, 2ND EDITION, 1990, BY ROBERT L. MOHR AND J. J. JOHNSON. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., IN WEAPO, AND THE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/J-S/K) ASTM A653 GRADE 40/50 (F43/K15) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, WHERE OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11 2002 SEC 3. THE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT.



Dec 30 '05

ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive



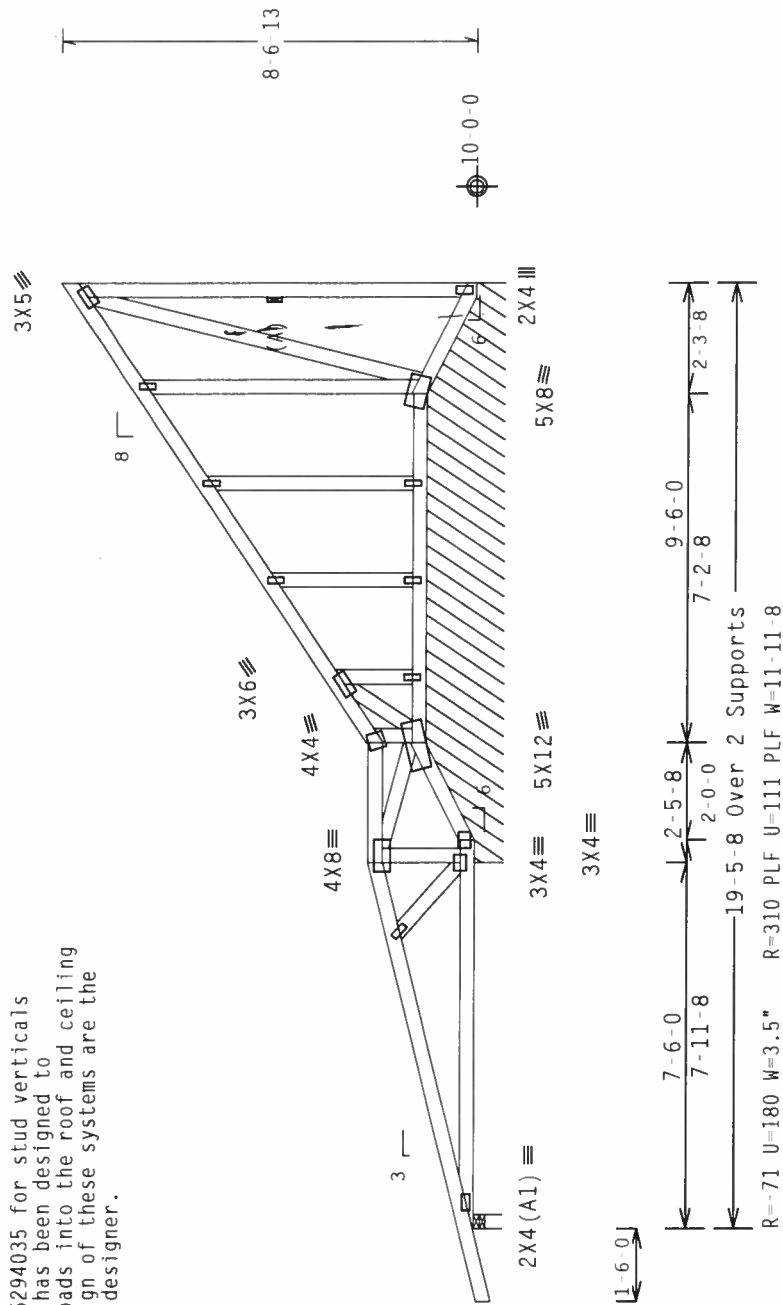
|  | Top | chord | 2x4 | SP | #2 | Dense |
|--|-----|-------|-----|----|----|-------|
|  | Bot | chord | 2x4 | SP | #2 | Dense |
|  |     | webs  | 2x4 | SP | #3 |       |

## SPECIAL LOADS

|                                               |
|-----------------------------------------------|
| (LUMBER)                                      |
| (DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)         |
| TC - From 61 PLF at -1.50 to 61 PLF at 7.50   |
| IC - From 30 PLF at 7.50 to 30 PLF at 9.90    |
| TC - From 51 PLF at 9.90 to 51 PLF at 19.46   |
| BC - From 4 PLF at -1.50 to 4 PLF at 0.00     |
| BC - From 20 PLF at 0.00 to 20 PLF at 7.50    |
| BC - From 151 PLF at 7.50 to 151 PLF at 19.46 |
| BC - 569 LB Conc. Load at 7.50                |

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

Refer to drawing GE-003 or HC26294035 for stud verticals and bracing details. Gable end has been designed to transfer all horizontal wind loads into the roof and ceiling diaphragms. Connection and design of these systems are the responsibility of the building designer.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

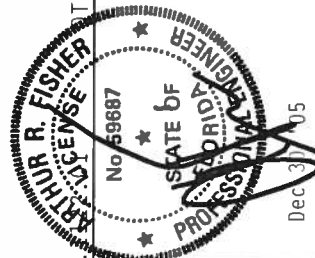
PLT TYP. Wave

 $Cq/RT=1.25(1.25)/0(0)$  7.22

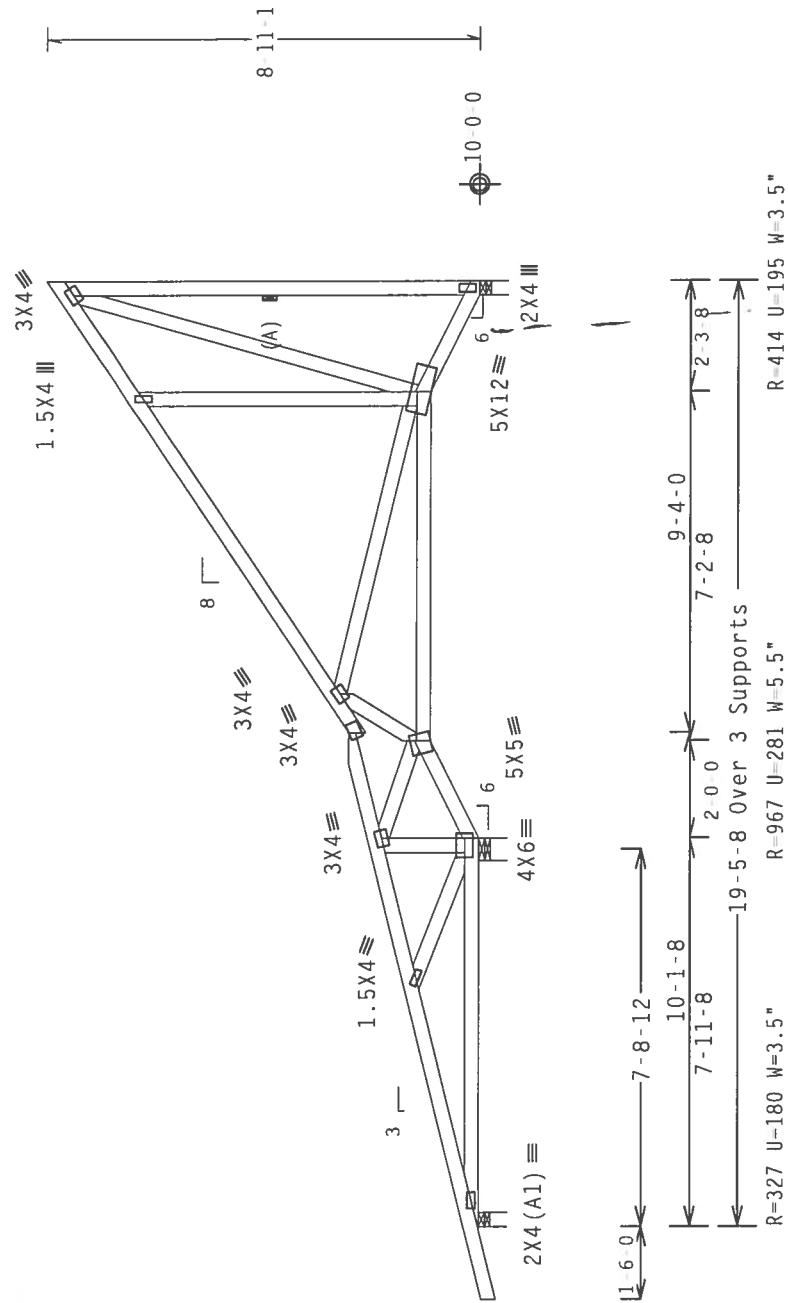
FL/-/4/-/-/R/-

Scale = .25"/Ft.

\*WARNING\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 S. CHRYSTIE DR., SUITE 200, MADISON, WI 53719), AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TIGID CEILING.

[illegible]

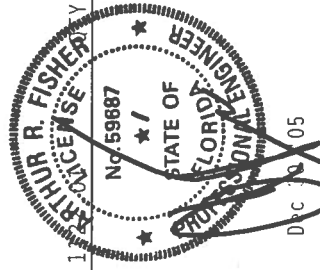
Alpine Engineered Products, Inc.  
1950 Marlev Drive



Design Crit: TPI-2002(STD)/FBC

Scale = .25"/Ft.

|          |      |     |          |          |          |
|----------|------|-----|----------|----------|----------|
| TC LL    | 20.0 | PSF | REF      | R487 -   | 27211    |
| TC DL    | 10.0 | PSF | DATE     | 12/29/05 |          |
| BC DL    | 10.0 | PSF | DRW      | HCUSR487 | 05363163 |
| BC LL    | 0.0  | PSF | HC - ENG | DAL / AF |          |
| TOT.LD.  | 40.0 | PSF | SEGN -   | 21237    |          |
| DUR.FAC. | 1.25 |     |          |          |          |



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (TRUSS PLATE INSTITUTE, 583 D'ORFORD RD., SUITE 200, MADISON, WI 53716) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH APPLICABLE, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TRUSSES. CONNECTOR PLATES ARE MADE OF 2018/1916GA (41415/17) ASTM A653 GRADE 40/60 (4, 8/16) GALV. STEEL. 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 AMHX A3 OF 1911 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING SOLELY FOR THE TRUSS COMPONENT



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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

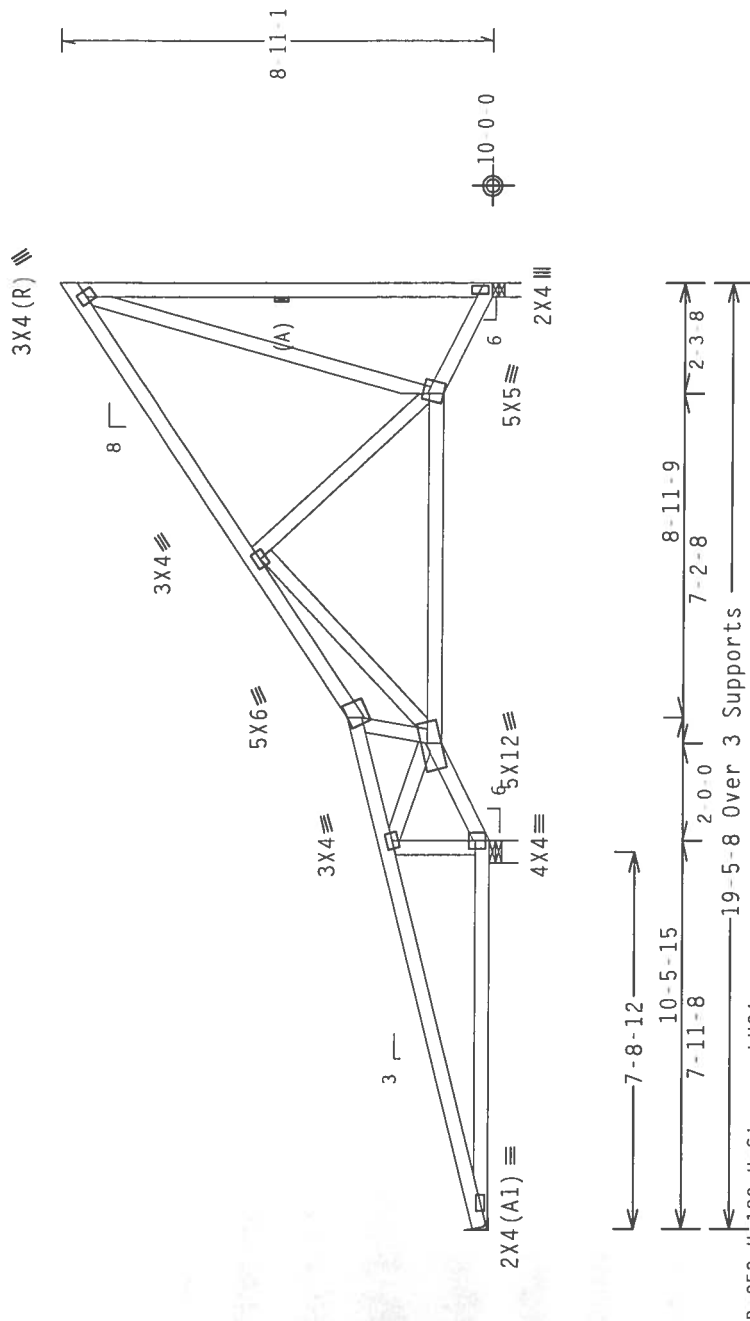
Shim all supports to solid bearing.

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=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



R=253 U=180 H=Simpson LU24

w/ (2) 10d, 0.148"x1.5" nails in Truss

w/ (4) 10d Common, 0.148"x3.0" nails in Girder

R=918 U=281 W=5.5"

R=438 U=204 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

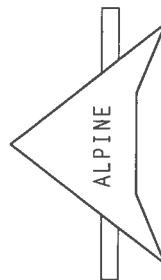
 $Cq/RT=1.25(1.25)/0(0)$  7.22.11

Scale = .25"/Ft.

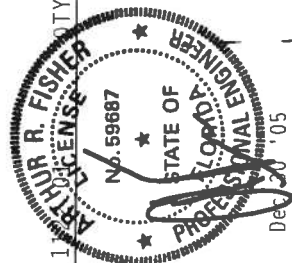
\*WARNING\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 TRUSS PLATE INSTITUTE, 584 S. OXFORD DR., SUITE 200, MADISON, WI 53719, AND WCA WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., 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 TRUSS CEILING.

**\* IMPORTANT \***—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. —ALPHATE ENGINEERED PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. —ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NATIONAL DESIGN SPEC. INSTALLING A BRACING OF THUSSES.

CONNECTION PLATES ARE MADE OF 2010/18G ASH A663 GRADE 40/60 (4 / 21/5) GALV. STEEL APPLIED PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 1911 2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT



Alpine Engineered Products, Inc.  
1950 Marley Drive



Dec 30, '05

|          |      |     |                      |
|----------|------|-----|----------------------|
| TC LL    | 20.0 | PSF | REF R487-- 27213     |
| TC DL    | 10.0 | PSF | DATE 12/29/05        |
| BC DL    | 10.0 | PSF | DRW HCUR487 05363165 |
| BC LL    | 0.0  | PSF | HC-ENG DAL/AF        |
| TOT.LD.  | 40.0 | PSF | SEQN- 21257          |
| DUR.FAC. | 1.25 |     |                      |

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

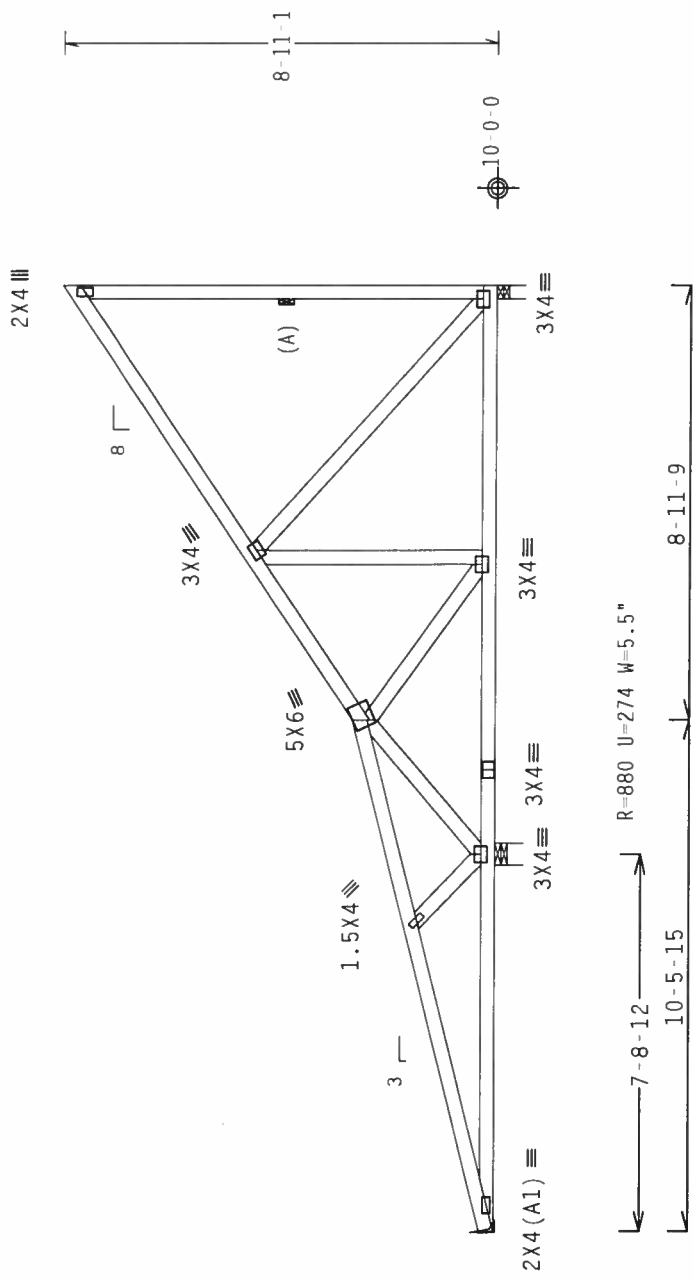
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

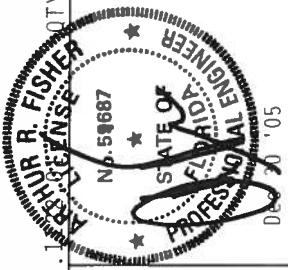
(A) Continuous lateral bracing equally spaced on member.

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



R=263 U=180 H-Simpson LU24  
w/ (2) 10d, 0.148"x1.5" nails in Truss  
w/ (4) 10d Common, 0.148"x3.0" nails in Girder  
Girder is (1)2X6 min. So.Pine  
R=457 U=212 W=3.5"

PLT TYP. Wave



ALPINE  
Engineered Products, Inc.  
1950 Marley Drive

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. REFER TO BCSI 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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. REFER TO BCSI 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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. REFER TO BCSI 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R487 -- 27214     |
| TC DL    | 10.0 PSF | DATE   | 12/29/05          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 05363166 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 21271             |
| DUR.FAC. | 1.25     |        |                   |

Scale = .25" / Ft.

|  | Top | chord | 2x4 | SP | #2 |
|--|-----|-------|-----|----|----|
|  | Bot | chord | 2x6 | SP | #2 |
|  |     | Webs  | 2x4 | SP | #3 |

: Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common (0.148"x3", min.)\_nails)

Top Chord: 1 Row @12.00" o.c.

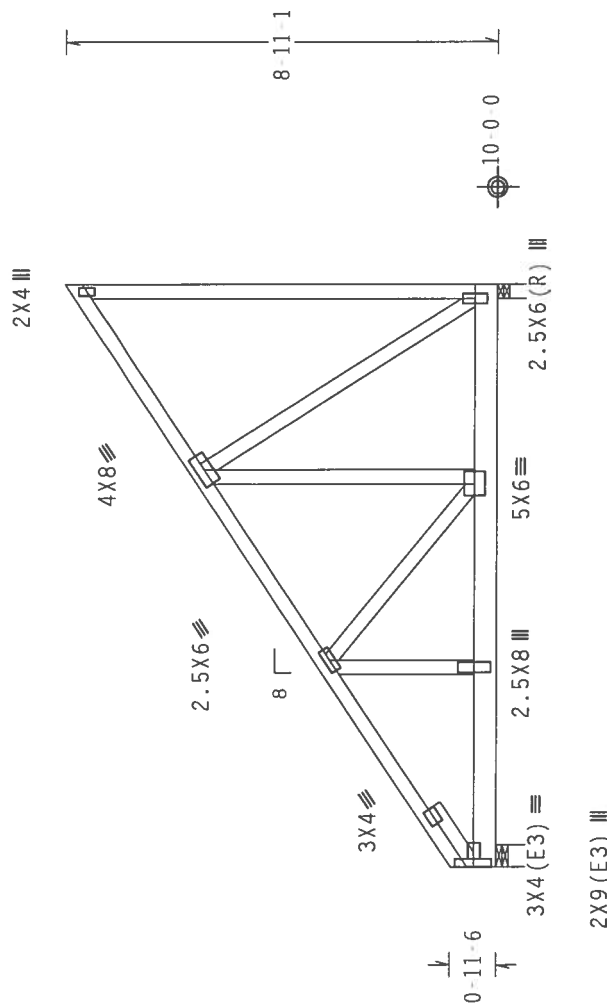
Bot Chord: 1 Row @ 7.25" o.c.

Webs : 1 Row @ 4" O.C.

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

Right end vertical not exposed to wind pressure.

Girder supports 26'8" span to BC one face and 2'0" span to TC/BC split opposite face.



11-11-8 Over 2 Supports

R-3564 U-1211 W-5.5"

R-3564 U-1211 W-3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

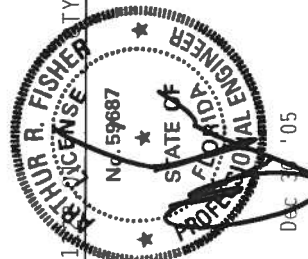
7.22.13

FI 1-141-1-181-

Scale = 25"/ft

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (OBTAINING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND NAPA UNITED TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TRUSS 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 AISC) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. HAS CONDUCTED VISUAL INSPECTIONS OF THE TRUSS CONSTRUCTION. THE TRUSS CONSTRUCTION PLATES ARE MADE OF 2019/16GA (2019/16GA) ASTM A563 GRADE 40/60 (14 K/15.5) GALV. STEEL. APPLY 100% ZINC RICH PRIMER TO ALL EXPOSED SURFACES. THE DESIGN OF THIS TRUSS IS BASED UPON PERMANENT LOADS. 2. ANY INSPECTION OF PLATES FOLLOWED BY A VISUAL CHECK OF THE TRUSS FOR ANY DEFECTS OR DAMAGE. 3. ANY BREACHING, INDICATES, ACCEPTANCE OF PROFESSIONAL ENGINEERING IS REQUIRED TO BE SPECIFIC FOR THE TRUSS CONSTRUCTION.



Dec 30 '05

ALPINE

Alpine Engineered Products, Inc.  
1950 Marley Drive



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

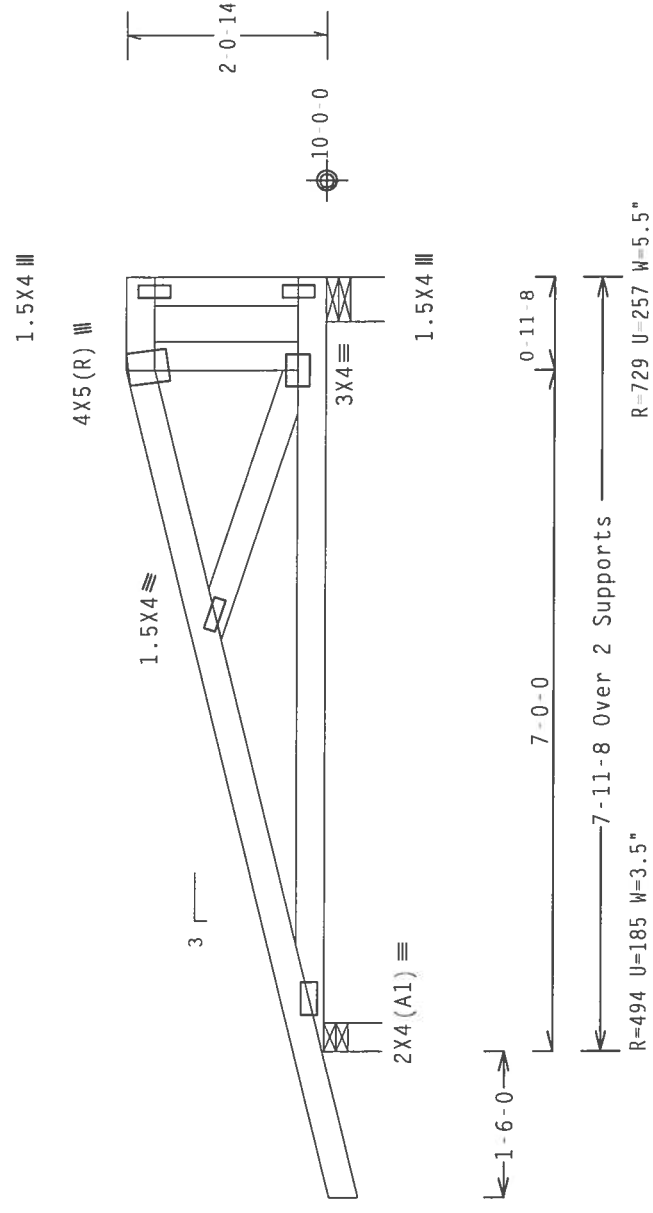
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



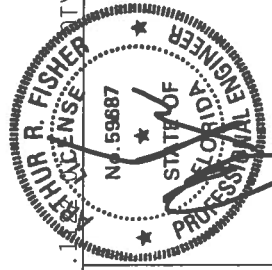
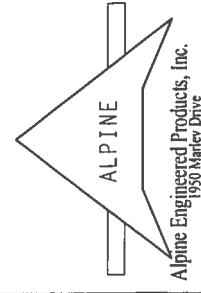
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.25(1.25)/0(0) 7.22.1

Scale = .5"/Ft.

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

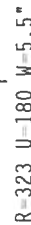
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO CONFORMANCE WITH TPI OR FABRICATION, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGNER'S RESPONSIBILITY IS TO PROVIDE A DESIGN SPEC. BY (WAPA) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. UNLESS OTHERWISE INDICATED, PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC 3. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN.



|          |          |              |                       |
|----------|----------|--------------|-----------------------|
| TC LL    | 20.0 PSF | FL/-/4/-/R/- | REF R487 -- 27217     |
| TC DL    | 10.0 PSF |              | DATE 12/29/05         |
| BC DL    | 10.0 PSF |              | DRW HCUSR487 05363169 |
| BC LL    | 0.0 PSF  |              | HC-ENG DAL/AF         |
| TOT.LD.  | 40.0 PSF |              | SEQN- 21144           |
| DUR.FAC. | 1.25     |              |                       |



Right end vertical not exposed to wind pressure.



Scale = .5"/Ft.

\*WARNING\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES TO BECS1 10' BUILDING COMPONENTS, MANUFACTURED BY THE TRUSS PAPER INSTITUTE, 583 W. GORDON DR., SUITE 200, MADISON, WI 53719, AND NCS COMPANY, 1000 W. GORDON DR., SUITE 200, MADISON, WI 53719, FOR SAFE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CEILING.

"IMPORTANT" - UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
DESIGN HAS BEEN PREPARED FOR THE CONSTRUCTION OF THIS DESIGN. ANY FAILURE TO BUILD THE  
DESIGN IN ACCORDANCE WITH THE DESIGN, OR ANY DEVIATION FROM THIS DESIGN, OR ANY  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MODS (NATIONAL DESIGN SPEC., BY AFAPA) AND THE  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MODS (NATIONAL DESIGN SPEC., BY AFAPA) AND THE  
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/HS/CA) ASIM A653 GRADE 40/60 (W/ K/H/S) GALV. STEEL. APPLY  
PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z.  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMHX AS OF 1911 2002 SEC-3. A SEAL ON THIS  
DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR TRUSS COMPONENT  
DESIGN. SEE DRAWING 160A Z FOR TRUSS COMPONENT DESIGN.



Dec 31 '05

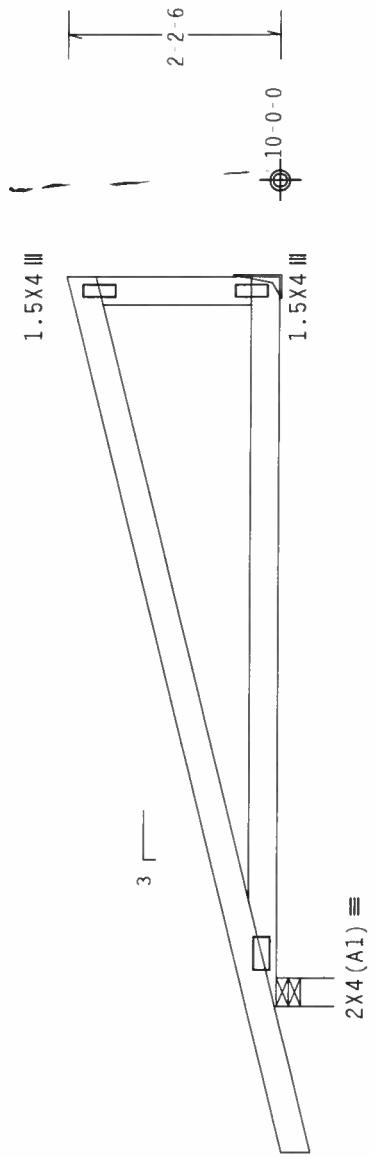
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



7-6-0 Over 2 Supports  
R=417 U=180 W=3.5"

R=284 U=180 H=Simpson LU24  
w/ (2) 10d, 0.148"x1.5" nails in Truss  
w/ (4) 10d common, 0.148"x3.0" nails in Girder  
Girder min. So.Pine

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

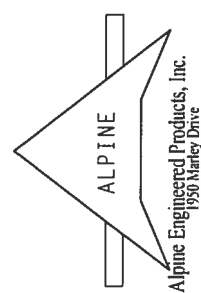
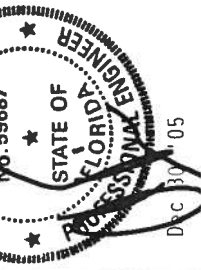
Scale = .5"/Ft.

PLT TYP. Wave

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGNER'S DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL BUILDING CODE (NBC) AND THE ALPINE CONNECTOR PLATES ARE MADE OF 2019/16GA (N-H/5/3) ASTM A653 GRADE 40/68 (N-K/5) STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE CIRCULATED AND USE OF THIS DOCUMENT FOR THE CONSTRUCTION OF THE TRUSS COMPONENT IS NOT PERMITTED.

|          |          |        |          |          |
|----------|----------|--------|----------|----------|
| TC LL    | 20.0 PSF | REF    | R487 --  | 27219    |
| TC DL    | 10.0 PSF | DATE   | 12/29/05 |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 | 05363180 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF   | *        |
| TOT.LD.  | 40.0 PSF | SEQN-  | 21064    |          |
| DUR.FAC. | 1.25     |        |          |          |



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

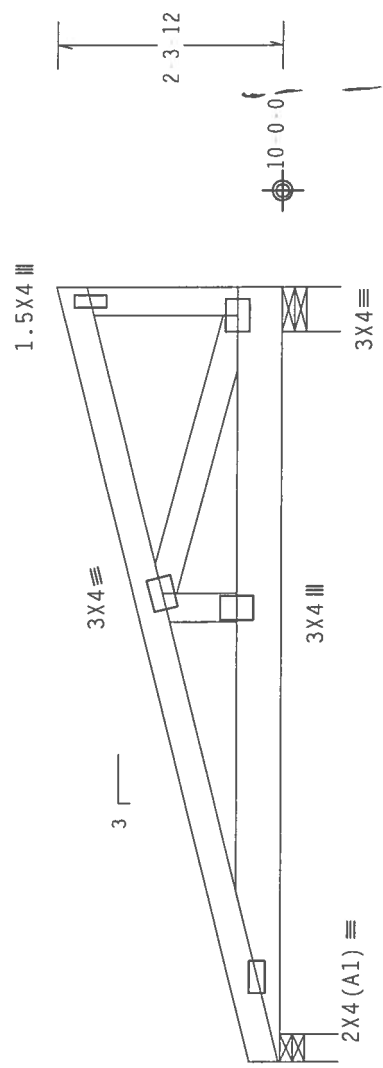
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located  
anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC  
DL=0.0 psf.

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

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 61 PLF at 0.00 to 61 PLF at 7.96  
BC - From 20 PLF at 0.00 to 20 PLF at 7.96  
BC - 253 LB Conc. Load at 0.73, 2.73  
BC - 263 LB Conc. Load at 4.73, 6.73

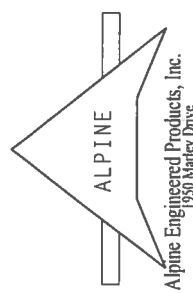
Right end vertical not exposed to wind pressure.



7-11-8 Over 2 Supports  
R=881 U=275 W=3.5"  
R=793 U-244 W=5.5"

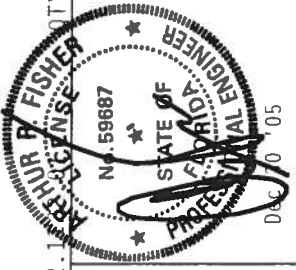
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.25(1.25)/0(0) 7.22.1

PLT TYP. Wave



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 O'HORIO DR., SUITE 200, MADISON, WI 53719) AND METC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS, NATIONAL DESIGN SPEC. BY ATRPA AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY TPI OR (2) SHALL BE PERFORMED BY THE INSTALLATION CONTRACTOR. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT.

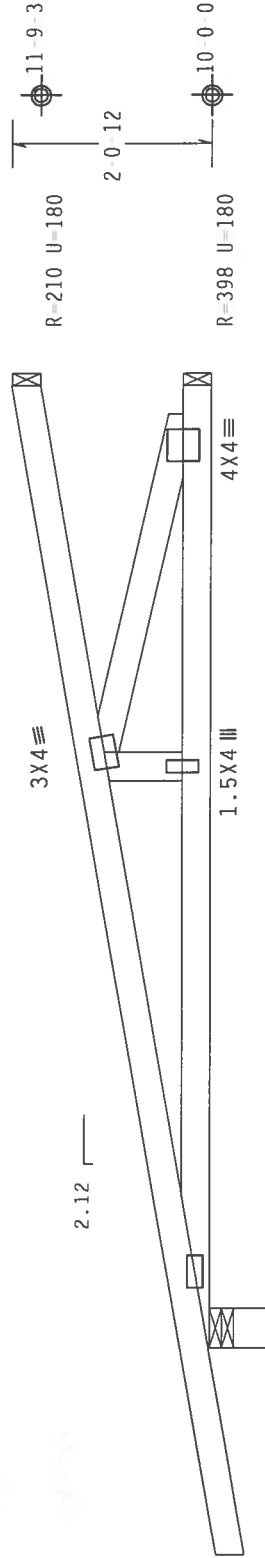


|                            |                       |
|----------------------------|-----------------------|
| FL / - / 4 / - / - / R / - | Scale = .5" / Ft.     |
| TC LL 20.0 PSF             | REF R487 -- 27220     |
| TC DL 10.0 PSF             | DATE 12/29/05         |
| BC DL 10.0 PSF             | DRW HCUSR487 05363171 |
| BC LL 0.0 PSF              | HC-ENG DAL/AF         |
| TOT.LD. 40.0 PSF           | SEQN- 21395           |
| DUR.FAC. 1.25              |                       |

Hipjack supports 7-0-0 setback jacks with no webs.

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

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


$$\overleftrightarrow{2-1-7}$$

9-10-13 Over 3 Supports

R=450 U=180 W=495"

Design Crit: TPI-2002(STD)/FBC

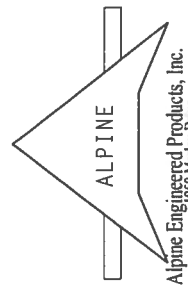
| FI 2002 (310) / FBC | Cq/RT=1.25(1.25)/0(0) | 7.22.1 |
|---------------------|-----------------------|--------|
|                     |                       |        |

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

Scale = .5"/Ft.

|          |      |     |        |          |          |
|----------|------|-----|--------|----------|----------|
| TC LL    | 20.0 | PSF | REF    | R487 --  | 27221    |
| TC DL    | 10.0 | PSF | DATE   | 12/29/05 |          |
| BC DL    | 10.0 | PSF | DRW    | HCUSR487 | 05363172 |
| BC LL    | 0.0  | PSF | HC-ENG | DAL/AF   |          |
| TOT.LD.  | 40.0 | PSF | SEQN-  | 21124    |          |
| DUR.FAC. | 1.25 |     |        |          |          |

Dec 30 '05



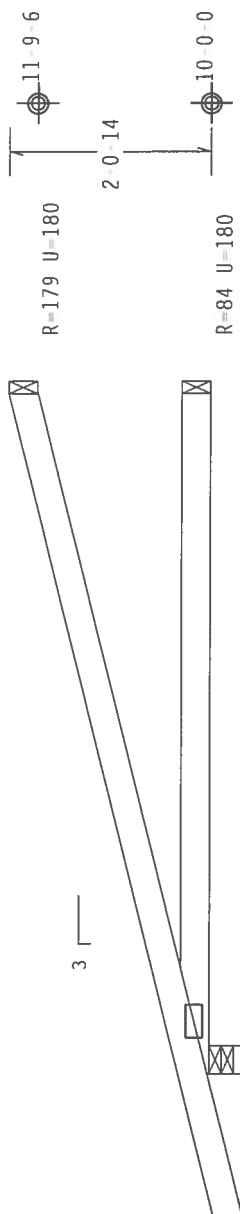
(5 547 MIKE BENNETT - EJ7)

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

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=0.0 psf, wind BC DL=0.0 psf.

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

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



1-6-0

7-0-0 Over 3 Supports  
R=398 U=180 W=3.5"

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

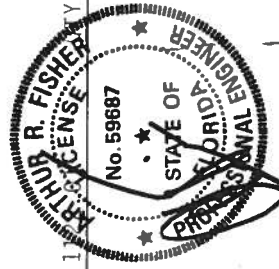
PLT TYP. Wave

7.22.1

FL/4/-/-/R/-

Scale = .5"/Ft.

|          |          |        |          |          |
|----------|----------|--------|----------|----------|
| TC LL    | 20.0 PSF | REF    | R487 - - | 27222    |
| TC DL    | 10.0 PSF | DATE   | 12/29/05 |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 | 05363173 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF   |          |
| TOT.LD.  | 40.0 PSF | SEQN-  | 21076    |          |
| DUR.FAC. | 1.25     |        |          |          |



Alpine Engineered Products, Inc.  
1050 Madison Drive

**WARNING:** THUSSELS REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 03 BUILDING COMPONENT SPECIFICATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 5940 O'DONOHIO DR., SUITE 200, MADISON, WI 53719, AND MICA WOOD TRUSSE COUNCIL OF AMERICA, 6300 ENTERPRISE BL., O'DONOHIO, 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.

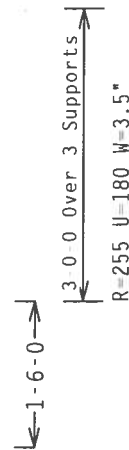
**\*\*IMPORTANT\*\***-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS COMPARABLE TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND THE CONNECTOR PLATES ARE MADE OF 2010/18/16GA (4-1/2"X1/8") ASTM A660 GRADE 40/60 (F 430/F 435) GALV. STEEL. ALL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2. IF 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





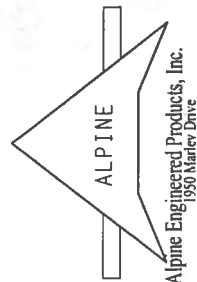
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



7.22.11  
FL - 4 - - R / -  
Scale = 5" / Ft.

|                                                                                     |          |      |     |        |                   |
|-------------------------------------------------------------------------------------|----------|------|-----|--------|-------------------|
|  | TC LL    | 20.0 | PSF | REF    | R487 - 27225      |
|                                                                                     | TC DL    | 10.0 | PSF | DATE   | 12/29/05          |
|                                                                                     | BC DL    | 10.0 | PSF | DRW    | HCUSR487 05363176 |
|                                                                                     | BC LL    | 0.0  | PSF | HC-ENG | DAL/AF            |
|                                                                                     | TOT.LD.  | 40.0 | PSF | SEON-  | 21058             |
|                                                                                     | DUR.FAC. | 1.25 |     |        |                   |

De V~~30~~, 05

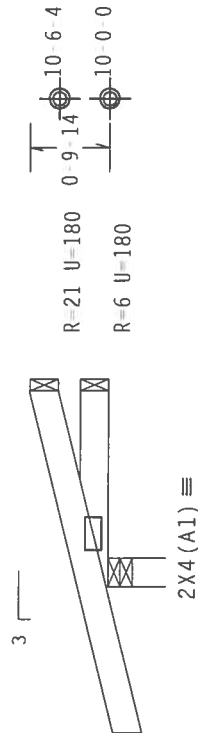


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, Exp B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



← 1-6-0 →

2-0-0 Over 3 Supports

R-231 U=180 W=3.5"

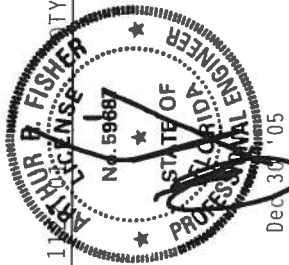
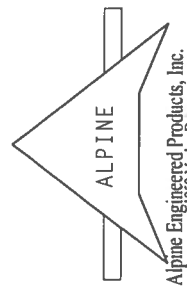
Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.25(1.25)/(0.0) 7.22.1

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND NTEA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS 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. APPLY PROTECTION PLATES ARE MADE OF 20/10/100A (4-M/5K/3) ASH A663 GRADE 40/60 (4-M/5K/3) GALV. STEEL. APPLY PROTECTION PLATES ARE MADE OF 20/10/100A (4-M/5K/3) ASH A663 GRADE 40/60 (4-M/5K/3) GALV. STEEL. ANY INSPECTION OF PLATES FOLLOWED BY SHAL BE RESPONSIBLE FOR THE DESIGN, POSITION PER DRAWINGS 100A 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT



TY:6 FL/-4/-/-R/-

Scale =.5"/Ft.

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R487 -- 27226     |
| TC DL    | 10.0 PSF | DATE   | 12/29/05          |
| BC DL    | 10.0 PSF | DRW    | HCUSR487 05363177 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 21132             |
| DUR.FAC. | 1.25     |        |                   |

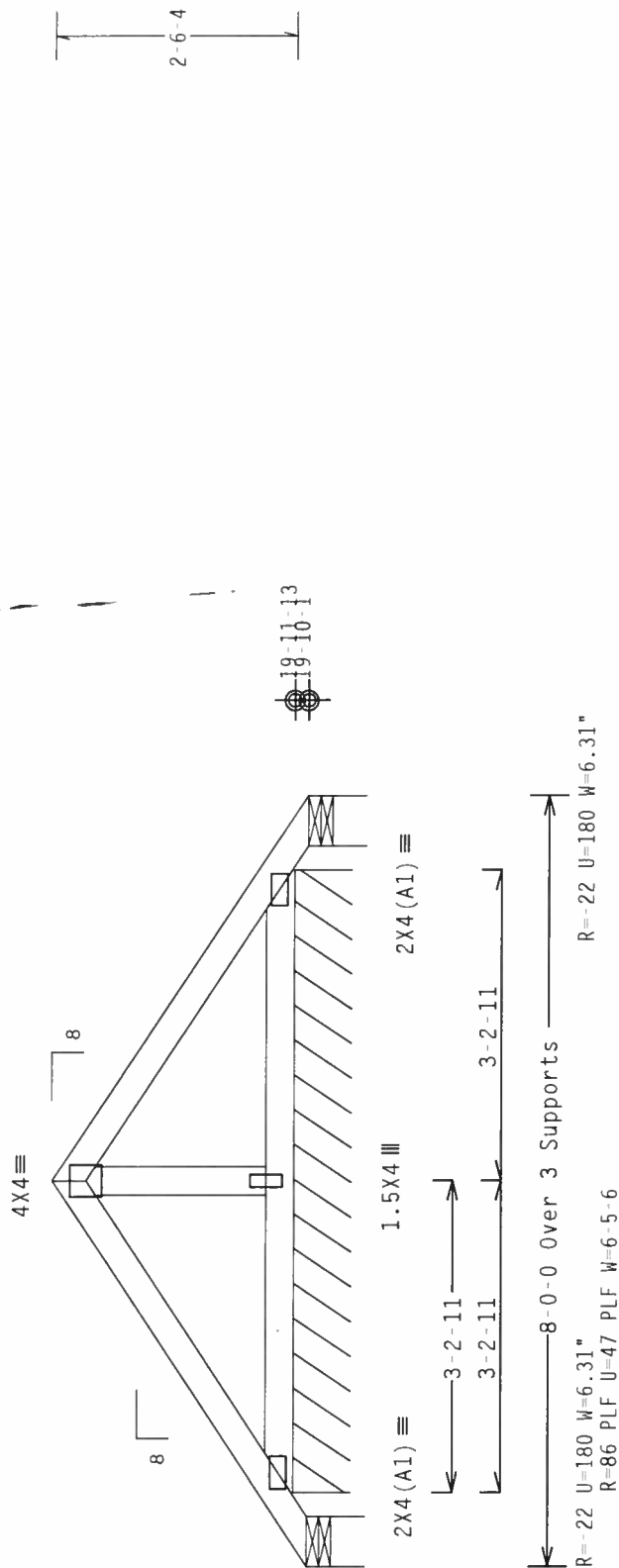
DEC 30 '05

1110 mph wind, 21.17 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.

PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,  
UNLESS OTHERWISE SPECIFIED.



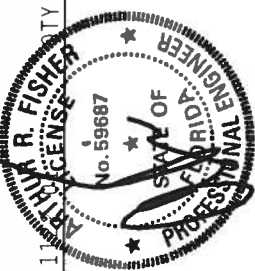
Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.25(1.25)/0(0) \quad 7.22.1$ 

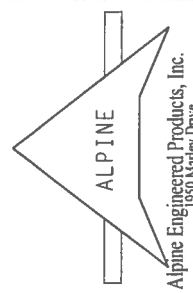
PLT TYP. Wave

Scale = .5"/Ft.

|          |          |        |          |          |
|----------|----------|--------|----------|----------|
| TC LL    | 20.0 PSF | REF    | R487 - - | 27228    |
| TC DL    | 10.0 PSF | DATE   | 12/29/05 |          |
| BC DL    | 2.0 PSF  | DRW    | HCUSR487 | 05363179 |
| BC LL    | 0.0 PSF  | HC-ENG | DAL/AF   |          |
| TOT.LD.  | 32.0 PSF | SEQN-  | 21284    |          |
| DUR.FAC. | 1.25     |        |          |          |



Dec 30 '05



# 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.

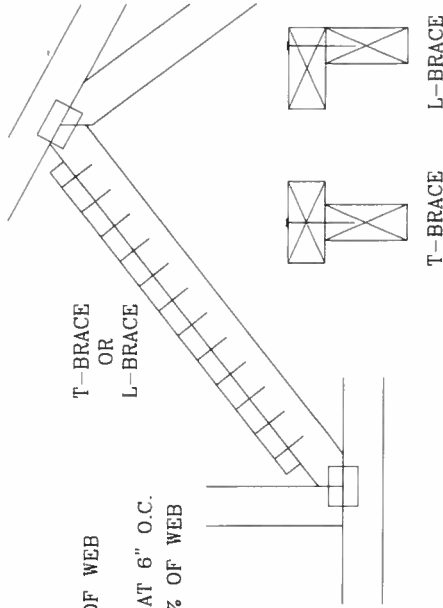
| WEB MEMBER SIZE | SPECIFIED CLB BRACING | T OR L-BRACE | ALTERNATIVE BRACING SCAB BRACE |
|-----------------|-----------------------|--------------|--------------------------------|
| 2X3 OR 2X4      | 1 ROW                 | 2X4          | 1-2X4                          |
| 2X3 OR 2X4      | 2 ROWS                | 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.

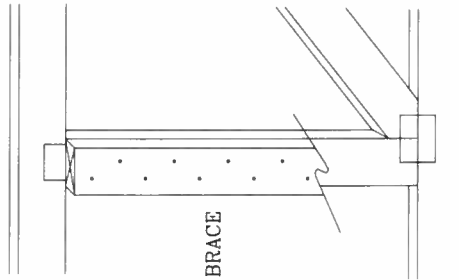
## T-BRACING OR L-BRACING:

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

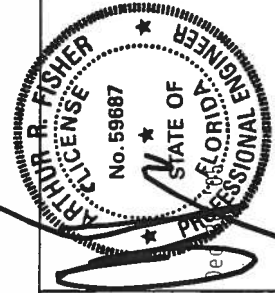


## SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579.640



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| TC LL     | PSF | REF  | CLB SUBST.    |
|-----------|-----|------|---------------|
| TC DL     | PSF | DATE | 11/26/03      |
| BC DL     | PSF | DRWG | BRCCLBSUB1103 |
| BC LL     | PSF | ENG  | MLH/KAR       |
| TOT. LD.  | PSF |      |               |
| DUR. FAC. |     |      |               |



ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA