





# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL 1999  
Page 1 of 1 Document ID: ISTR487-Z0311145834

Truss Fabricator: Anderson Truss Company  
Job Identification: 5-406-Isaac/Lot 102 Callaway  
Truss Count: 9

Model Code: Florida Building Code  
Truss Criteria: ANSI/TPI-1995(STD)/FBC  
Engineering Software: Alpine Software, Version 7.22.

Structural Engineer of Record:

Address:

Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-98 - Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1

2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.

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

Details: BRCLBSUB

#	Ref	Description	Drawing#	Date
1	14131--H9B		06011003	01/11/06
2	14132--H1B		06011004	01/11/06
3	14133--H7B		06011005	01/11/06
4	14134--EJ7T		06011006	01/11/06
5	14135--EJ7T1		06011007	01/11/06
6	14136--HJ7T		06011008	01/11/06
7	14137--CJ1		06011009	01/11/06
8	14138--J3T		06011010	01/11/06
9	14139--J5T		06011011	01/11/06

Seal Date: 01/11/2006

-Truss Design Engineer-  
Arthur R. Fisher

Florida License Number: 59687

1950 Marley Drive

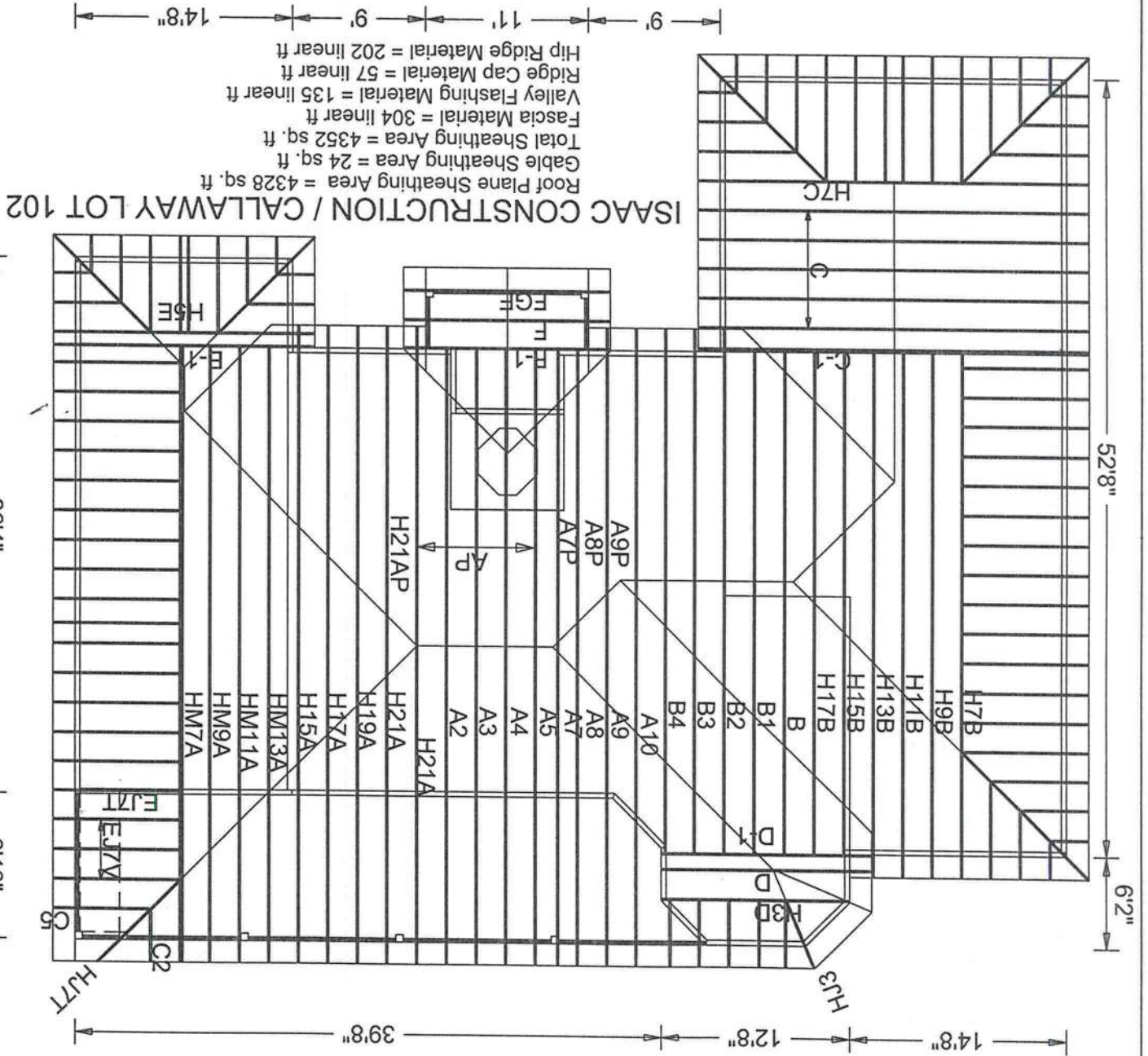
Haines City, FL 33844

Seal

Permit # 000023980

719-7143

Scale: 3/32" = 1'

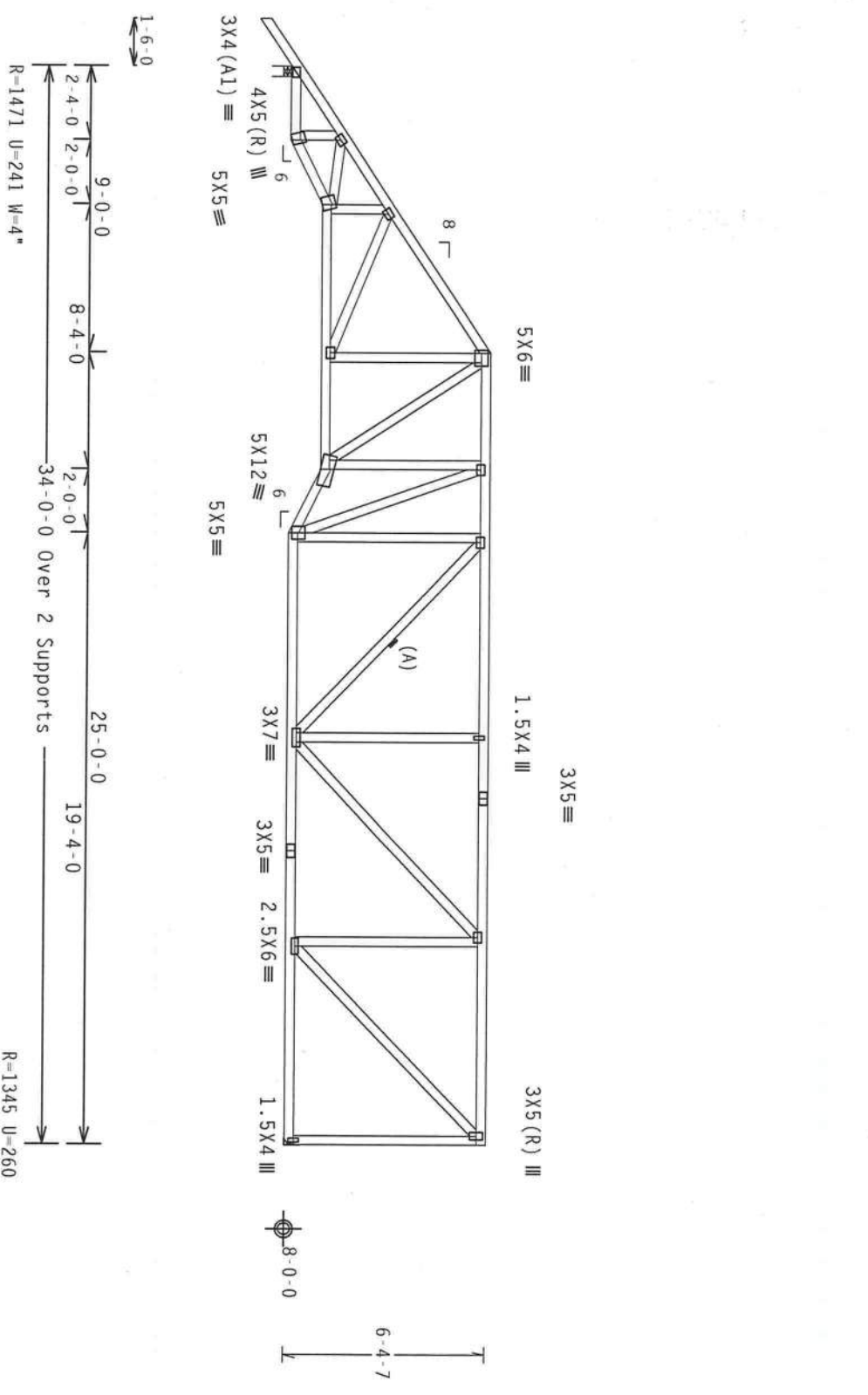


Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 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.  
 Deflection meets L/360 Tive and L/240 total load.

Right end vertical not exposed to wind pressure.



Note: All Plates Are 3x4 Except As Shown.

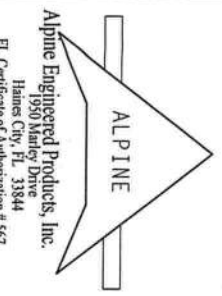
PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.22.1

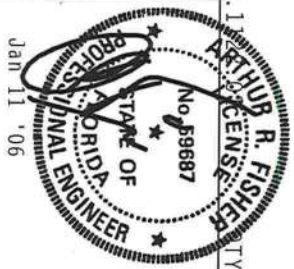
TY:1 FL-/4/-/R/-

Scale = .1875"/Ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC1 1903 BUILDING CODE, PARAGRAPH 1604.1, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 983 D-ONORIO DR., SUITE 200, MADISON, WI 53719, AND UBC 1997, SECTION 1604.1, PUBLISHED BY INTERNATIONAL BUILDING CODES, 600 INTERSTATE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. ALL TRUSSES SHALL BE PROPERLY ATTACHED TO RIGID CEILING. 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 COMPLIANCE WITH APPLICABLE PROVISIONS OF IBCS (INTERNATIONAL BUILDING CODES), OR ACPA (ALPINE CONNECTOR PLATES) ARE MADE OF 2018/16GA (K/HS) ASTM A653 GRADE 40/50 (K/HS) GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING INDICATE THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP1 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 14131
TC DL	10.0 PSF	DATE	01/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06011003
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN	19573
DUR. FAC.	1.25		
SPACING	24.0"	JREF	- 1STR487_Z03



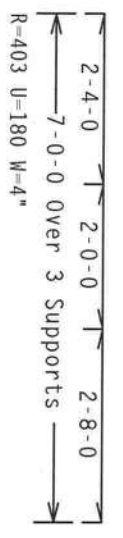
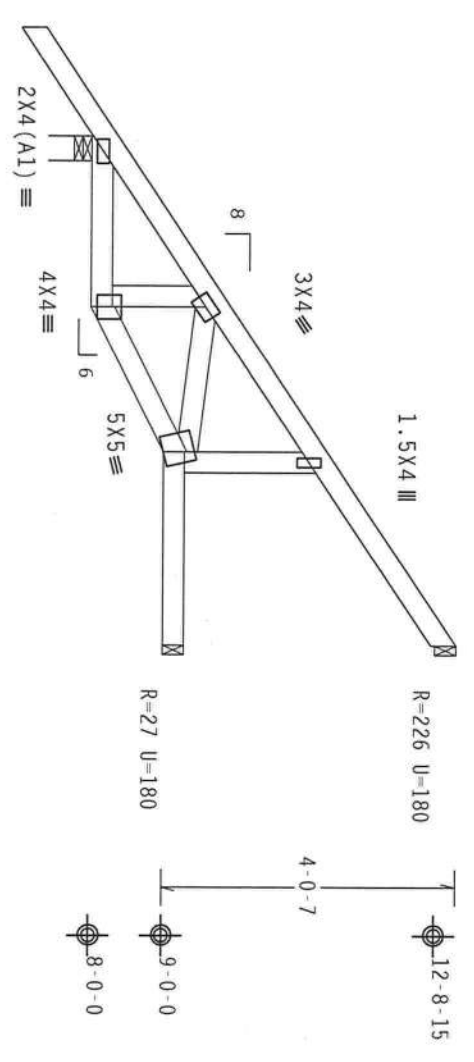


Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Deflection meets L/360 Tive and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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.

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.



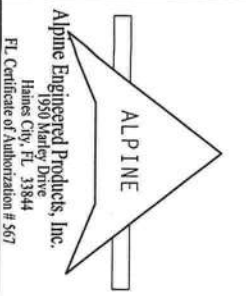
PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.22

TY:3 FL/-/4/-/-/R/-

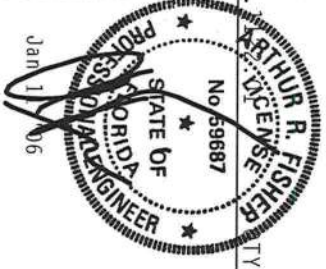
Scale = .375"/Ft.



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**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC1-1.03 (BUILDING COMPONENT SAFETY) ENGINEERING AND DESIGN, 383 P. O. BOX 100, SUITE 200, MADISON, WI 53719, AND WCA GROUP TRUSS COUNCIL OF AMERICA, 1000 W. WISCONSIN, 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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TC LL	20.0 PSF	REF	R487 - 14134
TC DL	10.0 PSF	DATE	01/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06011006
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	19609
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1STR487_Z03

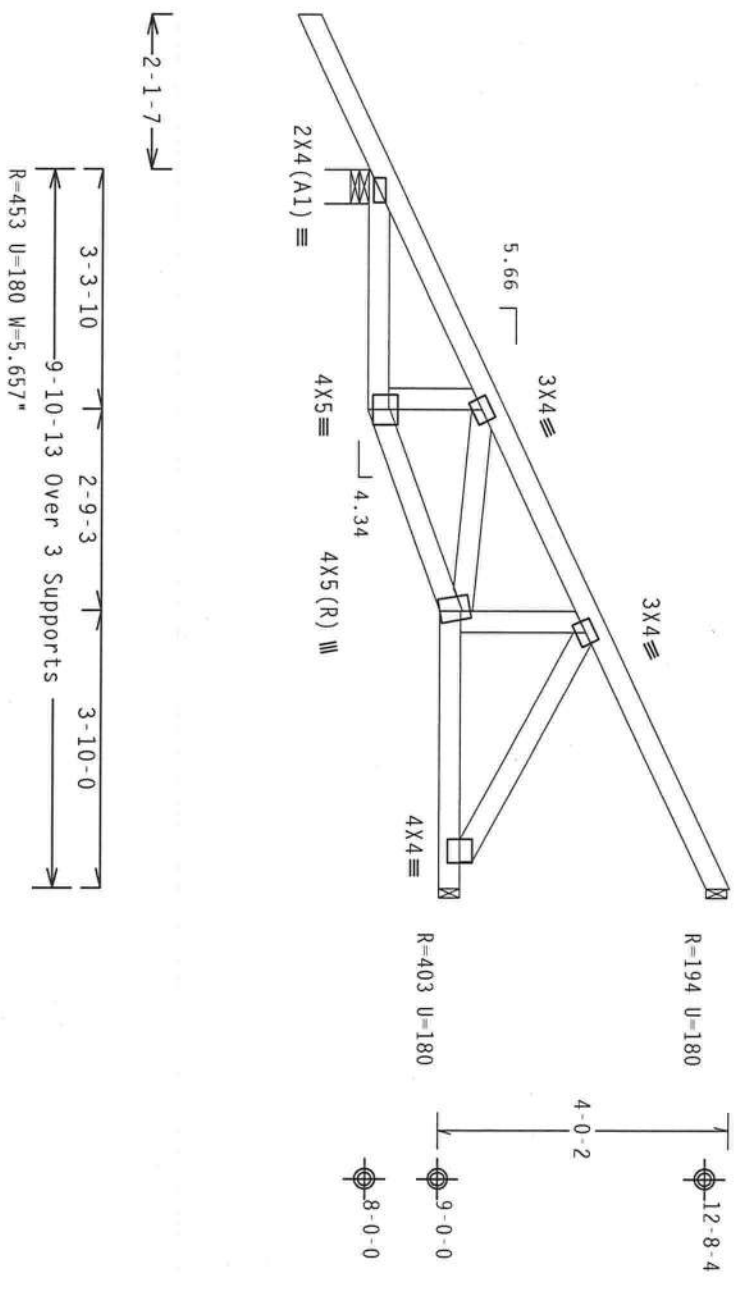


Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Hipjack supports 7-0-0 setback jacks with no webs.  
 Deflection meets L/360 Tive and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



PLT TYP. Wave TPI

Design Critt: TPI-1995(STD)/FBC

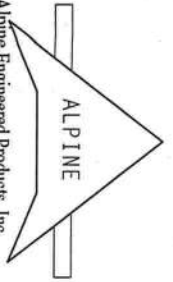
7.22.1

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

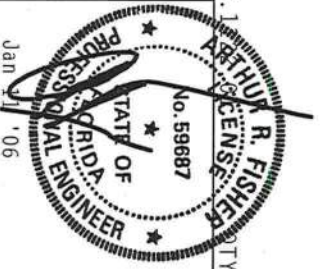
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-1-03 BUILDING CODES, LOCAL ORDINANCES, AND THE TPI CROSS PLATE INSTITUTE, 583 O. O'CONNOR DR., SUITE 200, MADISON, WI 53719, AND WCA 6000 THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY APA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASH A653 GRADE 40/60 (W. W/H. S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ALL TRUSS PARTS SHALL BE THE SAME AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE BUILDING DESIGN AND RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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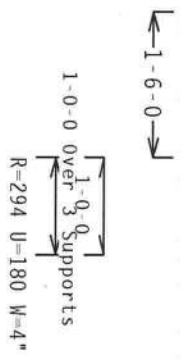
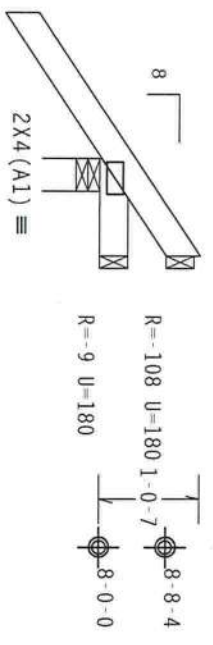


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TC DL	10.0 PSF	DATE	01/11/06	
BC DL	10.0 PSF	DRW	HCUSR487	06011008
BC LL	0.0 PSF	HC-ENG	TCE/AF	
TOT. LD.	40.0 PSF	SEQN-	72529	REV
DUR. FAC.	1.25			
SPACING	SEE ABOVE	JREF-	1STR487_203	

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 8.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, Wind BC DL=5.0 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

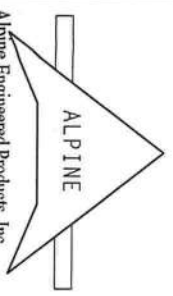
7.22.

PROPERTY: 10 FL/-/4/-/1-/R/-

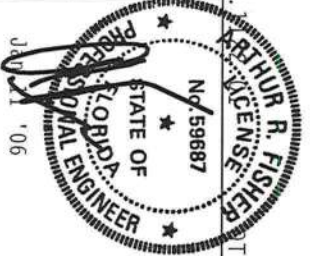
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, MARKING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING CODE) OR SAFETY INFORMATION, MARKING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, PUBLISHED BY THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION, 1000 EAST 10TH AVE., SUITE 200, MADISON, WI 53719, AND UICL 6000 TRUSS CONNECT OF AMERICA, 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 CONNECTOR PLATES ARE MADE OF 20/18/16GA (U./N/S/K) ASH A653 GRADE 40/60 (C./K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE PER ANNEK AS OF TPI-2009 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTABLE PROJECT SHALL BE THE RESPONSIBILITY OF THE TRUSS CONTRACTOR. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TPI 1 SEC. 2.



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TC LL	20.0 PSF	REF	R487 - 14137
TC DL	10.0 PSF	DATE	01/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06011009
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	19625
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1STR487_Z03

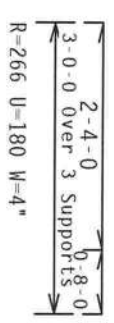
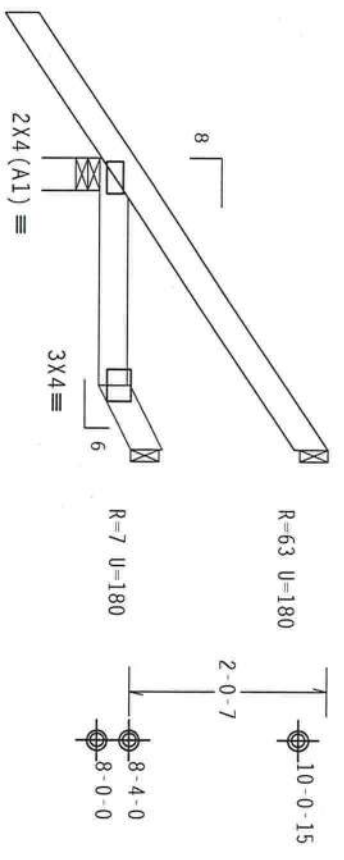
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Deflection meets L/360 live and L/240 total load.

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

110 mph wind, 15.00 ft mean hgt., ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Shim all supports to solid bearing.



PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD) /FBC

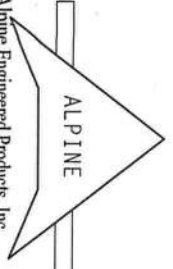
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TY: 2 FL/-/4/-/-/R/-

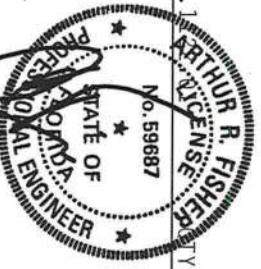
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY AND QUALITY ASSURANCE) AND BCST 1-04 (TRUSS FABRICATION, STORAGE AND INSTALLATION) IN THE 2003 INTERNATIONAL BUILDING CODE (IBC) AND THE 2003 INTERNATIONAL ROOFING AND CEILING CODE (IRCC). IN ADDITION, W/ 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (K/HS/K) ASTM A563 GRADE 40/60 (K/HS) GALV. STEEL. ALPINE CONNECTOR PLATE FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF THIS TRUSS SHALL BE PERFORMED AS OF TPI-1-2002, SEC. 3.1. 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 ANSI/TPI 1 SEC. 2.



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FL Certificate of Authorization # 967



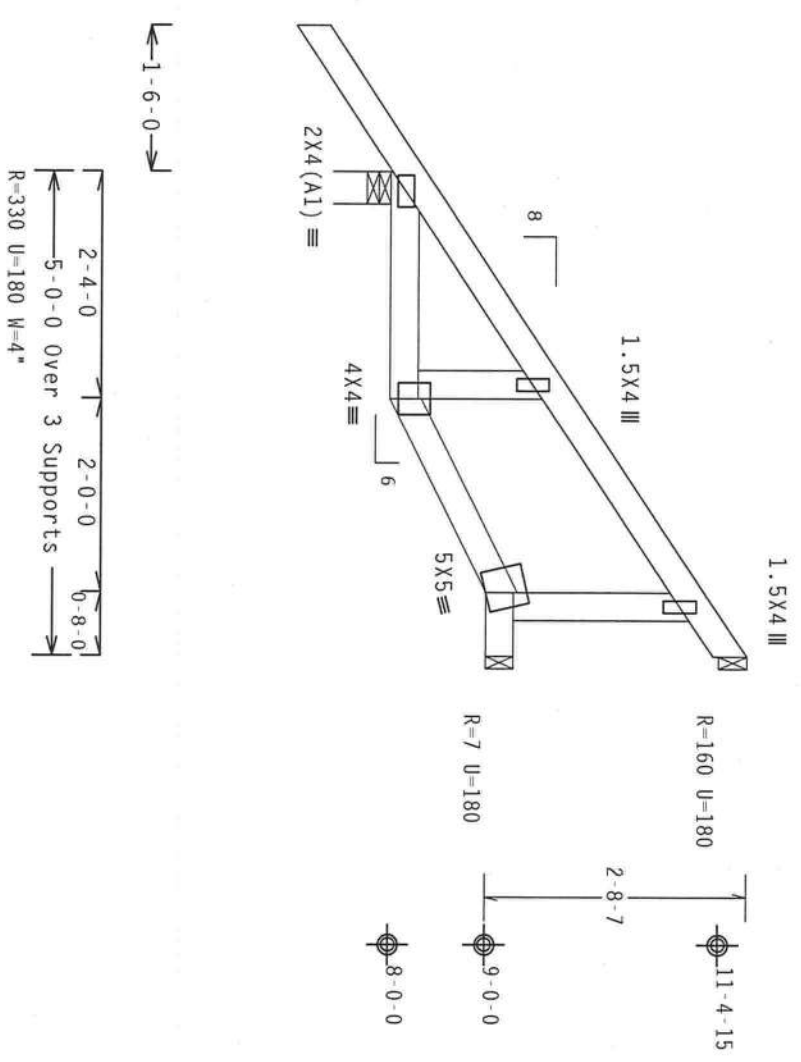
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TC DL	10.0 PSF	DATE	01/11/06
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BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	19621
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1STR487_203

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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.

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 TPI

Design Crit: TPI-1995(STD)/FBC

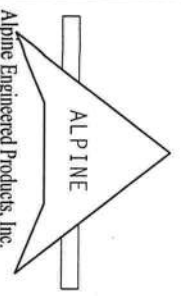
7.22.1

TY:2 FL/-/4/-/R/-

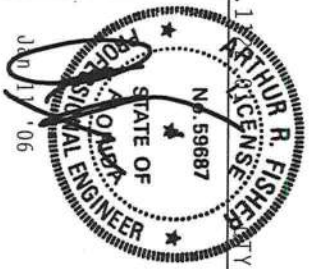
Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SECS 1, 2, 3 AND 4 OF THE TPI CROSS SECTION, PUBLISHED BY TPI CROSS SECTION INSTITUTE, 583 D'ONGERIO DR., SUITE 200, HOUSTON, TX 77057. FOR SAFETY 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 RIGID CEILING.

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TC LL	20.0 PSF	REF	R487 - 14139
TC DL	10.0 PSF	DATE	01/11/06
BC DL	10.0 PSF	DRW	HCUSR487 06011011
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT. LD.	40.0 PSF	SEQN-	19617
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1STR487_Z03

# 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.

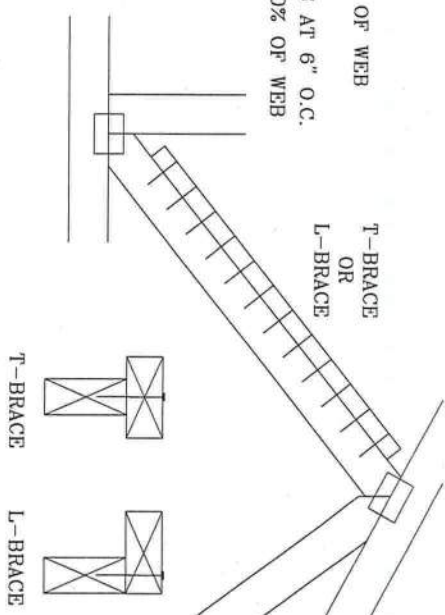
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW		2X4
2X3 OR 2X4	2 ROWS		2X6
2X6	1 ROW		2X4
2X6	2 ROWS		2X6
2X8	1 ROW		2X6
2X8	2 ROWS		2X6
			1-2X8
			2-2X6(*)

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.

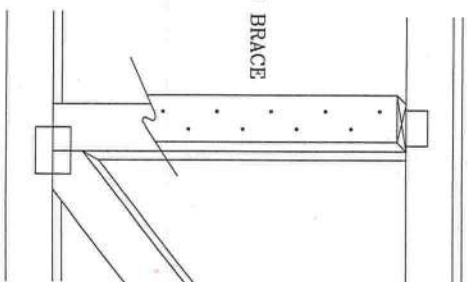
T-BRACING  
OR  
L-BRACING:

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:

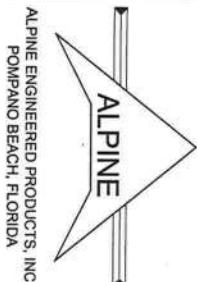
APPLY SCAB(S) TO WIDE FACE OF WEB.  
NO MORE THAN (1) SCAB PER FACE.  
ATTACH WITH 10d OR .128"x3" GUN  
NAILS AT 6" O.C. BRACE IS A MINIMUM  
80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE GENERAL NOTES FOR INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 582 DUNFORD DR. SUITE 500, MADISON, WI 53719. FOR SAFETY PRACTICES PERTAINING TO THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

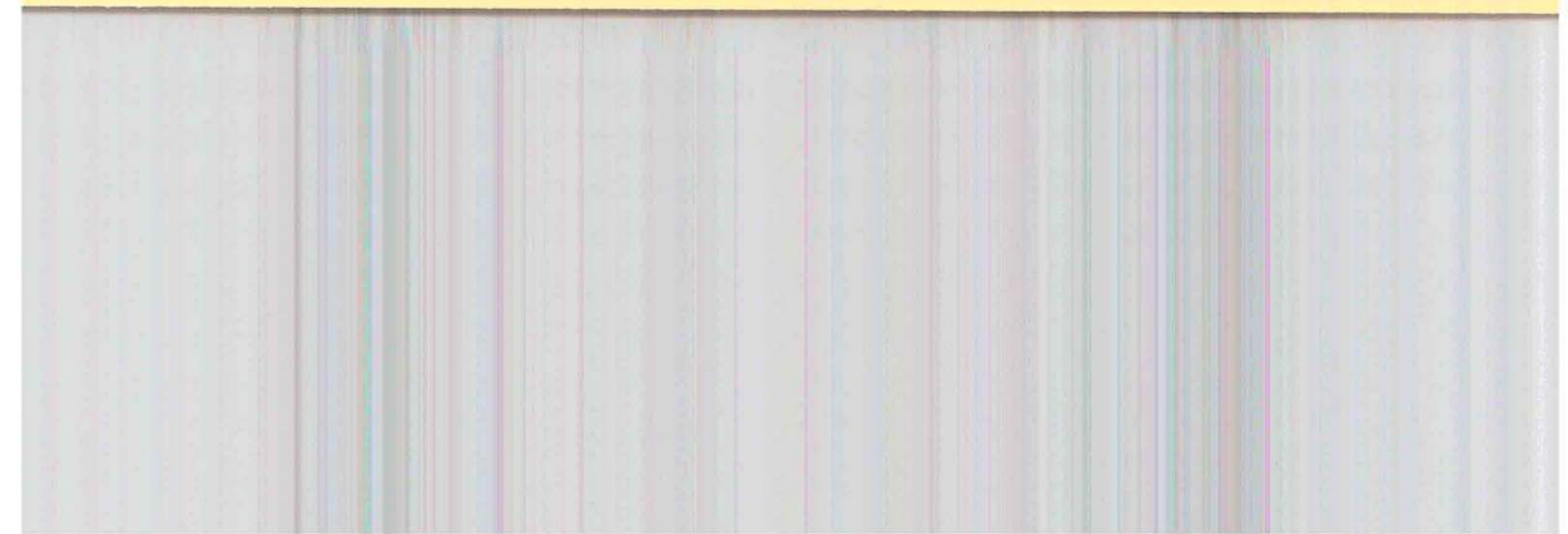
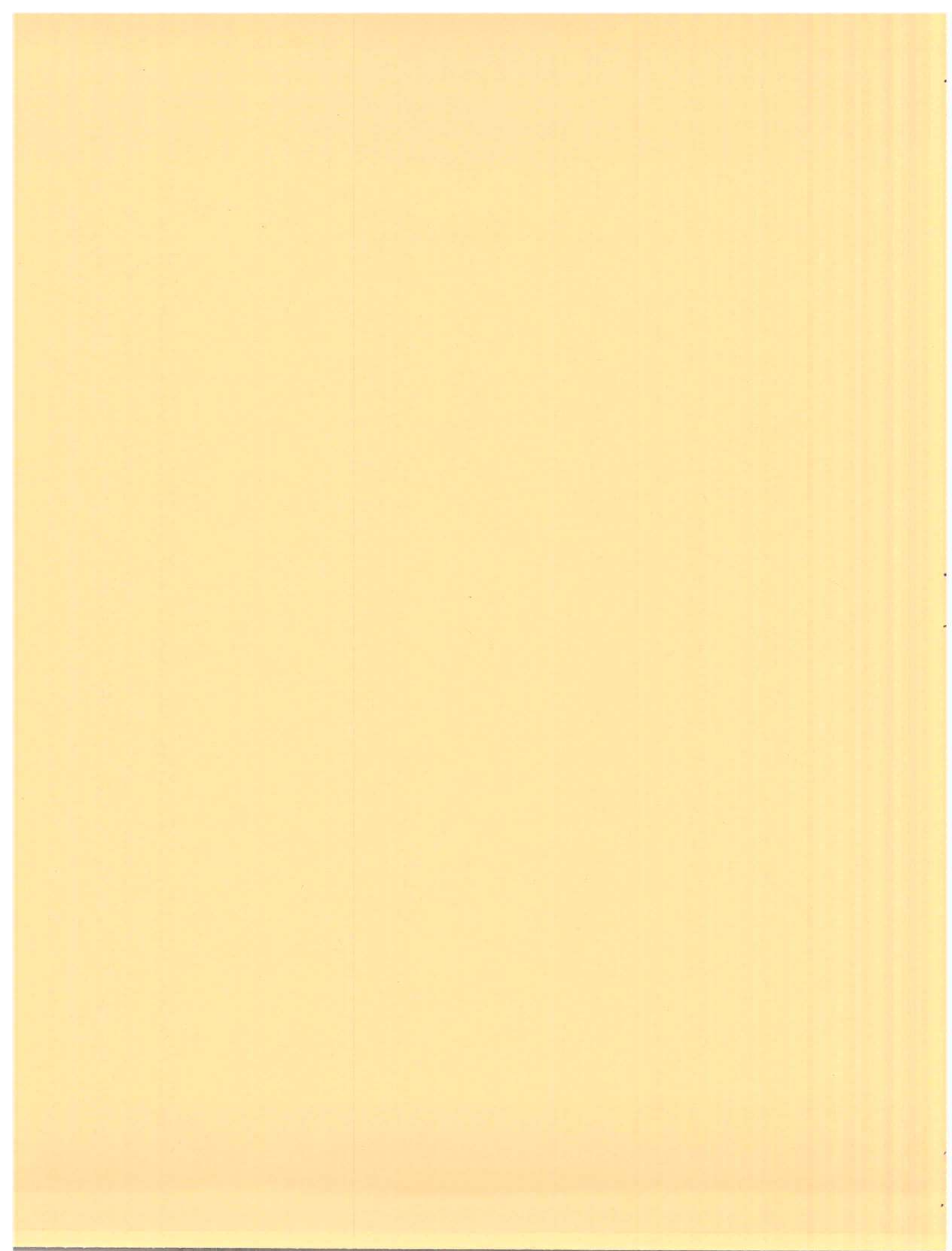
\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BRACING, OR DAMAGE TO THE TRUSS OR CONNECTIONS THEREWITH. THE TRUSS SHALL BE FABRICATED, HANDLED, SHIPPED, INSTALLED & BRACED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS. UNLESS OTHERWISE SPECIFIED BY AEP&D AND TPI, ALPINE CONNECTOR PLATES ARE MADE OF A6061-T6 ALUMINUM. UNLESS OTHERWISE SPECIFIED BY AEP&D AND TPI, ALPINE CONNECTOR PLATES ARE MADE OF A6061-T6 ALUMINUM. UNLESS OTHERWISE SPECIFIED BY AEP&D AND TPI, APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE SPECIFIED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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 ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			



**CHERRANTON**  
**CALLAWAY**  
**OF**

**O C C U P A N C Y**

**COLUMBIA COUNTY, FLORIDA**

**Department of Building and Zoning Inspection**

*This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.*

Parcel Number 24-4S-17-08720-103

Building permit No. 000023980

Use Classification SFD, UTILITY

Fire: 17.76

Permit Holder ISAAC BRATKOVICH

Waste: 36.75

Owner of Building ISAAC CONSTRUCTION INC.

Total: 54.51

Location: 224 SW PHEASANT WAY(CALLAWAY, LOT 102)

Date: 07/21/2006



*Paul J.*

Building Inspector

**POST IN A CONSPICUOUS PLACE**  
*(Business Places Only)*

allaway box 102  
10/09/2004 23:01  
3867582160  
BLDG AND ZONING  
PAGE 01

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only  
 Application # 0510-07  
 Date Received 10/13/05  
 By [Signature]  
 Permit # 922/23988  
 Application Approved by - Zoning Official [Signature] Date 10/13/05  
 Development Permit [Signature] Zoning RSF-2  
 Land Use Plan Map Category RES-L-Dev.  
 Flood Zone [Blank]  
 Comments [Blank]

Applicants Name Linda or Melanie Roder Phone 752-2281

Address 387 S.W. Kemp Ct. Lake City, FL 32024

Owners Name Isaac Construction Inc. Phone 719-7143

911 Address 824 S.W. Pleasant Way Lake City, FL 32024

Contractors Name Isaac Bratkovich of Isaac Construction Phone 719-7143

Address 1605 S.W. Walter Ave, Lake City, FL 32024

Fee Simple Owner Name & Address [Blank]

Bonding Co. Name & Address [Blank]

Architect/Engineer Name & Address Will Myers/Nick Gelsler

Mortgage Lenders Name & Address Mercantile Bank - Lake City

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 15-45-16-03023-402

Subdivision Name Calaway

Driving Directions 247 to Calaway, go L. to S.W. Pleasant, go R. on Pleasant 5th lot down DR R

Type of Construction STD

Number of Existing Dwellings on Property 0

Do you need a - Curvert Permit or Curvert Waiver or Have an Existing Drive

Total Acreage 0.5

Actual Distance of Structure from Property Lines - Front 50' Side 36.4' Side 36.4' Rear 41.8'

Total Building Height 23' Porches 4.59' Garage 5.56'

Number of Stories 1 Heated Floor Area 2154

Roof Pitch 8-12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor) Barbara C. Webster  
 STATE OF FLORIDA  
 COUNTY OF COLUMBIA  
 Sworn to (or affirmed) and subscribed before me this 13 day of Sept 2005  
 Personally known  or Produced Identification

Notary Signature [Signature]  
 NOTARY STAMP/SEAL  
 Competency Card Number  
 Contractors License Number CBC 059323

Contractor Signature [Signature]  
 State of Florida Notary Public  
 Commission # DD329279  
 Expires July 2, 2008  
 Bonded by Fidelity Insurance, Inc. 800-368-7018

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 05-945  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

Property Appraiser's  
Parcel Identification No. R03023-402

WARRANTY DEED

*December*

THIS INDENTURE, made this 29th day of ~~November~~, 2005, between

SOUTHEAST DEVELOPERS GROUP, INC., a corporation existing under the

laws of the State of Florida, whose post office address is: 197 SW

Waterford Court, Suite 106, Lake City, FL 32025 and having its

principal place of business in the County of Columbia, State of

Florida, party of the first part, and ISAC CONSTRUCTION, INC., a

Florida corporation, whose post office address is: 144 SW Waterford

Court, Suite 101, Lake City, FL 32025, of the State of Florida,

party of the second part,

WITNESSETH: that the said party of the first part, for and in

consideration of the sum of Ten Dollars (\$10.00), to it in hand

paid, the receipt whereof is hereby acknowledged, has granted,

bargained, sold, aliened, remised, released, conveyed and

confirmed, and by these presents doth grant, bargain, sell, alien,

remit, release, convey and confirm unto the said party of the

second part, their heirs and assigns forever, all that certain

parcel of land lying and being in the County of Columbia and State

of Florida, more particularly described as follows:

Lot 102, CATALAWAY PHASE III, a subdivision according to the plat  
thereof as recorded in Plat Book 7, Pages 145-146 of the public  
records of Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding mineral rights  
of record, if any, and taxes for the current year.

TOGETHER with all the tenements, hereditaments and

appurtenances, with every privilege, right, title, interest and  
estate, reversion, remainder and easement thereto belong or in

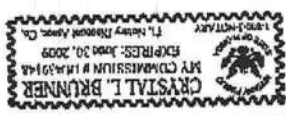
anywise appertaining:

TO HAVE AND TO HOLD the same in fee simple forever.

And the said party of the first part doth covenant with said

party of the second part that it is lawfully seized of said

Inst:2005030902 Date:12/14/2005 Time:13:02  
Doc Stamp-Deed : 307.30  
DC, P. Dewitt Cason, Columbia County B:1068 P:384



Notary Public  
My Commission Expires: \_\_\_\_\_

The foregoing instrument was acknowledged before me this 19th day of December, 2005, by JOSHUA A. NICKELSON, President of SOUTHEAST DEVELOPERS GROUP, INC., a state of Florida corporation, on behalf of the corporation. He is personally known to me and did not take an oath.

STATE OF FLORIDA  
COUNTY OF COLUMBIA

BY: [Signature]  
JOSHUA A. NICKELSON,  
President  
SOUTHEAST DEVELOPERS GROUP  
INC.

[Signature]  
Crystal L. Brunner  
Notary Public  
Karen M. Wright

Signed, sealed and delivered  
in our presence:

and year above written.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be signed in its name by its president, the day

persons whomsoever.  
land, and will defend the same against the lawful claims of all party of the first part does hereby warrant the title to said good right and lawful authority to sell the same; and the said premises; that they are free of all encumbrances, and that it has

**NOTICE OF COMMENCEMENT FORM  
 COLUMBIA COUNTY, FLORIDA**

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.  
 Tax Parcel ID Number 15-HS-16-03023-400

1. Description of property; (legal description of the property and street address or 911 address)  
847 SW Pheasant Way, Lake City, Florida 32024

Directions: 847 to Callinway go left to SW Pheasant Way go  
 Right on Pheasant Way, SW lot down on Right.

2. General description of improvement: Single Family Dwelling

3. Owner Name & Address Isaac Brotkovich of Isaac Construction  
144 SW Waterford Ct. Ste 101 Lake City, FL 32025  
 Name & Address of Fee Simple Owner (if other than owner): N/A

4. Contractor Name Isaac Construction  
 Address 386-719-7143  
 Phone Number 386-719-7143

5. Surety Holders Name N/A  
 Address Phone Number

6. Amount of Bond N/A  
 Lender Name N/A  
 Address Inst: 2005031508 Date: 12/20/2005 Time: 15:35  
DC, P. Dewitt Cason, Columbia County B-1068 P-2365

7. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:  
 Name N/A  
 Address Phone Number

8. In addition to himself/herself the owner designates N/A  
 Address Phone Number

9. (a) 7. Phone Number of the designee to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -  
 (Unless a different date is specified)  
 10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording.

NOTICE AS PER CHAPTER 713, Florida Statutes:  
 The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Sworn to (or affirmed) and subscribed before  
 day of December 2005

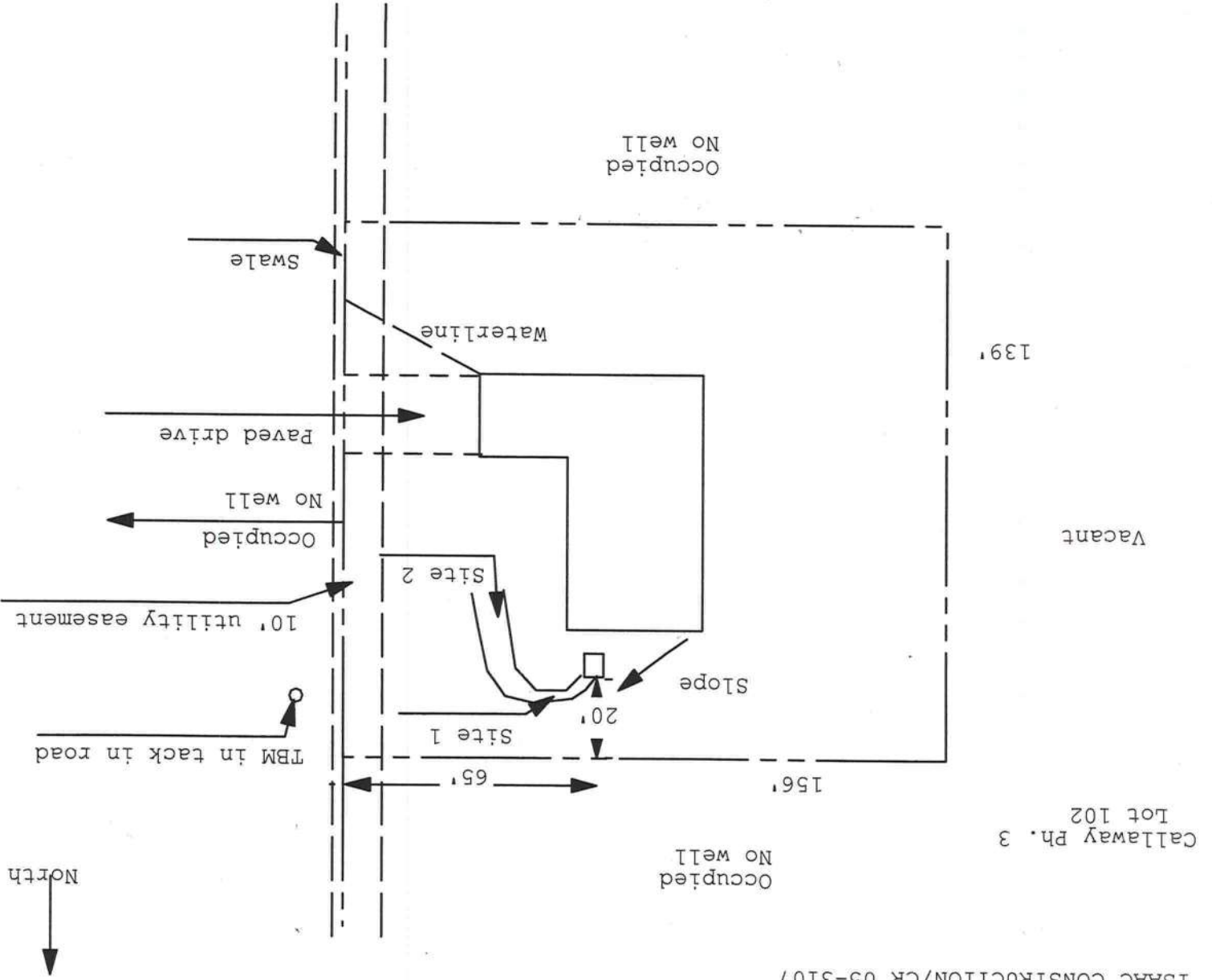
Barbara C. Webster  
 Commission # DD329279  
 Expires July 2, 2008  
 Notary Public - Columbia County, Florida  
 Notary Seal

Signature of Owner  
Isaac Construction

Signature of Notary  
Barbara C. Webster

**Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan**  
**Permit Application Number: 05-0985N**  
**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

ISAAC CONSTRUCTION/CR 05-3107



1 inch = 40 feet

Site Plan Submitted By *[Signature]*  
 Plan Approved  Not Approved

Date 9/21/05  
 Date 10-3-05

By *[Signature]*  
 CPHU

Notes:

FF-2082

**1. SALE AND PURCHASE:** Southeast Developers Group, Inc. ("Seller") and Isaac Construction, Inc. ("Buyer") agree to sell and buy on the terms and conditions specified below the property ("Property") described as:

Address: 224 SW Pleasant Way  
Legal Description: Lot 102 Callaway Phase 3

15-49-16-03023-402

including all improvements and the following additional property:  
Vacant land only

**PRICE AND FINANCING**  
2. PURCHASE PRICE: \$43,900.00 payable by Buyer in U.S. funds as follows:

(a) \$ 15,000.00 Deposit received (checks are subject to clearance) August 3, 2005 by \_\_\_\_\_ for \_\_\_\_\_ Signature \_\_\_\_\_ Southeast Developers Group, Inc. ("Escrow Agent")

(b) \$ \_\_\_\_\_ Additional deposit to be made by \_\_\_\_\_ or \_\_\_\_\_ days from Effective Date.

(c) \_\_\_\_\_ Total Financing (see Paragraph 3 below) (express as a dollar amount or percentage)  
Other: \_\_\_\_\_

(d) \$ \_\_\_\_\_ Balance to close (not including Buyer's closing costs, prepaid items and prorations). All funds paid at closing must be paid by locally drawn cashier's check, official check or wired funds.

(f) (complete only if purchase price will be determined based on a per unit cost instead of a fixed price) The unit used to determine the purchase price is  lot  acre  square foot  other (specify: \_\_\_\_\_) per unit based on a calculation of \_\_\_\_\_ of the Property as certified to Buyer and Seller by a Florida-licensed surveyor in accordance with Paragraph 8(c) of this Contract. The following rights of way and other areas will be excluded from the calculation:

3. CASH/FINANCING: (Check as applicable)  (a) Buyer will pay cash for the Property with no financing contingency.  (b) This Contract is contingent on Buyer qualifying and obtaining the commitment(s) or approval(s) specified below (the "Financing") within \_\_\_\_\_ days from Effective Date or 30 days from Closing Date (if left blank then Closing Date or 30 days from Effective Date, whichever occurs first) (the "Financing Period"). Buyer will apply for Financing within \_\_\_\_\_ days from Effective Date (5 days if left blank) and will timely provide any and all credit, employment, financial and other information required by the lender. If Buyer, after using diligence and good faith, cannot obtain the Financing within the Financing Period, either party may cancel this Contract. Upon cancellation, Buyer will return to Seller all the evidence, surveys and association documents provided by Seller, and Buyer's deposit(s) will be returned after Escrow Agent receives proper authorization from all interested parties. Buyer will pay all loan expenses, including the lender's title insurance policy.

(1) New Financing: Buyer will secure a commitment for new third party financing for \$ \_\_\_\_\_ or \_\_\_\_\_ % of the purchase price at the prevailing interest rate and loan costs. Buyer will keep Seller and Broker fully informed of the loan application status and progress and authorizes the lender or mortgage broker to disclose all such information to Seller and Broker.  (2) Seller Financing: Buyer will execute a  first  second purchase money note and mortgage to Seller in the amount of \$ \_\_\_\_\_, bearing annual interest at \_\_\_\_\_ % and payable as follows:

The mortgage, note, and any security agreement will be in a form acceptable to Seller and will follow forms generally accepted in the county where the Property is located; will provide for a late payment fee and acceleration at the Buyer's (\_\_\_\_\_) and Seller's (\_\_\_\_\_) acknowledgment receipt of a copy of this page, which is Page 1 of 6 Pages.



61 mortgagee's option if Buyer defaults; will give Buyer the right to prepay without penalty all or part of the principal at any time(s) with interest only to date of payment; will provide for release or contiguous parcels, if applicable; and will require Buyer to keep liability insurance on the Property, with Seller as additional named insured. Buyer authorizes Seller to obtain credit, employment and other necessary information to determine creditworthiness for the financing. Seller will, within 10 days from Effective Date, give Buyer written notice of whether or not Seller will make the loan.

62  (3) Mortgage Assumption: Buyer will take title subject to and assume and pay existing first mortgage to LN# \_\_\_\_\_ in the approximate amount of \$ \_\_\_\_\_ per month including principal, interest,  taxes and insurance and having a  fixed  other (describe) \_\_\_\_\_ interest rate of \_\_\_\_\_% which  will  will not escalate upon assumption. Any variance in the mortgage will be adjusted in the balance due at closing with no adjustment to purchase price. Buyer will purchase Seller's escrow account dollar for dollar. If the lender disapproves Buyer, or the interest rate upon transfer exceeds \_\_\_\_\_% or the assumption/transfer fee exceeds \$ \_\_\_\_\_, either party may elect to pay the excess, falling which this agreement will terminate and Buyer's deposit(s) will be returned.

67 CLOSING

68 4. CLOSING DATE; OCCUPANCY: This Contract will be closed and the deed and possession delivered on or before August 31, 2005, unless extended by other provisions of this Contract. If on Closing Date insurance underwriting is suspended, Buyer may postpone closing up to 5 days after the insurance suspension is lifted.

71 5. CLOSING PROCEDURE; COSTS: Closing will take place in the county where the Property is located and may be conducted by electronic means. If the insurance insures Buyer for the defects arising between the title binder effective date and recording of Buyer's deed, closing agent will disburse at closing the net sale proceeds to Seller and brokerage fees to Broker as per Paragraph 17. In addition to other expenses provided in this Contract, Seller and Buyer will pay the costs indicated below.

72 (a) Seller Costs: Seller will pay taxes on the deed and recording fees for documents needed to cure title; certified, confirmed and ratified special assessment liens; title evidence (if applicable under Paragraph 5); Other: \_\_\_\_\_

73 (b) Buyer Costs: Buyer will pay taxes and recording fees on notes and mortgages and recording fees on the deed and financing statements; loan expenses; pending special assessment liens; lender's title policy at the simultaneous issue rate; inspections; survey and sketch; insurance; Other: \_\_\_\_\_

81 (c) Title Evidence and Insurance: Check (1) or (2):  
82  (1) Seller will provide a Paragraph 8(a)(1) owner's title insurance commitment as the evidence.  Seller  Buyer will select the title agent.  Seller  Buyer will pay for the owner's title policy, search, examination and related charges. Each party will pay its own closing fees.  
83  (2) Seller will provide the evidence as specified in Paragraph 8(a)(2).  Seller  Buyer will pay for the owner's title policy and select the title agent. Seller will pay fees for title searches prior to closing, including tax search and lien search fees, and Buyer will pay fees for title searches after closing (if any), title examination fees and closing fees.  
84 (d) Proportions: The following items will be made current and prorated as of the day before Closing Date: real estate taxes, interest, bonds, assessments, leases and other Property expenses and revenues. If taxes and assessments for the current year cannot be determined, the previous year's rates will be used with adjustment for any exemptions.  
85 (e) Tax Withholding: Buyer and Seller will comply with the Foreign Investment in Real Property Tax Act, which may require Seller to provide additional cash at closing if Seller is a "foreign person" as defined by federal law.

86 PROPERTY CONDITION

87 6. LAND USE; Seller will deliver the Property to Buyer at the time agreed in its present "as is" condition, with conditions resulting from Buyer's inspections and casualty damage, if any, excepted. Seller will maintain the landscaping and grounds in a comparable condition and will not engage in or permit any activity that would materially alter the Property's condition without the Buyer's prior written consent.  
88 (a) Flood Zone: Buyer is advised to verify by survey, with the lender and with appropriate government agencies which flood zone the Property is in, whether flood insurance is required and what restrictions apply to improving the Property and rebuilding in the event of casualty.

89 (b) Government Regulation: Buyer is advised that changes in government regulations and levels of service which affect Buyer's intended use of the Property will not be grounds for cancelling this Contract if the Feasibility Study Period has expired or if Buyer has checked choice (a)(2) below.

90 (c) Inspections: Check (1) or (2) below.  
91  (1) Feasibility Study: Buyer will, at Buyer's expense and within \_\_\_\_\_ days from Effective Date ("Feasibility Study Period"), determine whether the Property is suitable, in Buyer's sole and absolute discretion, for residential use. During the Feasibility Study Period, Buyer may conduct a Phase I environmental assessment and any other tests, analyses, surveys and investigations ("inspections") that Buyer deems necessary to determine to Buyer's satisfaction the Property's engineering, architectural and environmental properties; zoning and

111 zoning restrictions; subdivision statutes; soil and grade; availability of access to public roads, water, and other utilities; consistency with local, state and regional growth management plans; availability of permits, government approvals, and licenses; and other inspections that Buyer deems appropriate to determine the Property's suitability for the Buyer's intended use. If the Property must be rezoned, Buyer will obtain the rezoning from the appropriate government agencies. Seller will sign all documents Buyer is required to file in connection with development or rezoning approvals.

117 Seller gives Buyer, its agents, contractors and assigns, the right to enter the Property at any time during the Feasibility Study Period for the purpose of conducting inspections; provided, however, that Buyer, its agents, contractors and assigns enter the Property and conduct inspections at their own risk. Buyer will indemnify and hold Seller harmless from losses, damages, costs, claims and expenses of any nature, including attorneys' fees, expenses and liability incurred in application for rezoning or related proceedings, and from liability to any person, arising from the conduct of any and all inspections or any work authorized by Buyer. Buyer will not engage in any activity that could result in a construction lien being filed against the Property without Seller's prior written consent. If this transaction does not close, Buyer will, at Buyer's expense, (1) repair all damages to the Property resulting from the inspections and return the Property to the condition it was in prior to conduct of the inspections, and (2) release to Seller all reports and other work generated as a result of the inspections.

127 Buyer will deliver written notice to Seller prior to the expiration of the Feasibility Study Period of Buyer's determination of whether or not the Property is acceptable. Buyer's failure to comply with this notice requirement will constitute acceptance of the Property as suitable for Buyer's intended use in its "as is" condition. If the Property is unacceptable to Buyer and written notice of this fact is timely delivered to Seller, this Contract will be deemed terminated as of the day after the Feasibility Study period ends and Buyer's deposit(s) will be returned after Escrow Agent receives proper authorization from all interested parties.

133  (2) No Feasibility Study: Buyer is satisfied that the Property is suitable for Buyer's purposes, including being satisfied that either public sewerage and water are available to the Property or the Property will be approved for the installation of a well and/or private sewerage disposal system and that existing zoning and other pertinent regulations and restrictions, such as subdivision or deed restrictions, concurrency, growth management and environmental conditions, are acceptable to Buyer. This Contract is not contingent on Buyer conducting any further investigations.

138 (d) Subdivided Lands: If this Contract is for the purchase of subdivided lands, defined by Florida Law as "(a) Any contiguous land which is divided or is proposed to be divided for the purpose of disposition into 50 or more lots, parcels, units, or interests; or (b) Any land, whether contiguous or not, which is divided or proposed to be divided into 50 or more lots, parcels, units, or interests which are offered as a part of a common promotional plan.", Buyer may cancel this Contract for any reason whatsoever for a period of 7 business days from the date on which Buyer executes this Contract. If Buyer elects to cancel within the period provided, all funds or other property paid by Buyer will be refunded without penalty or obligation within 20 days of the receipt of the notice of cancellation by the developer.

146 **7. RISK OF LOSS; EMINENT DOMAIN:** If any portion of the Property is materially damaged by casualty before closing, or Seller negotiates with a governmental authority to transfer all or part of the Property in lieu of eminent domain proceedings, or if an eminent domain proceeding is initiated, Seller will promptly inform Buyer. Either party may cancel this Contract by written notice to the other within 10 days from Buyer's receipt of Seller's notification, failing which Buyer will close in accordance with this Contract and receive all payments made by the government authority or insurance company, if any.

**TITLE**

150 **8. TITLE:** Seller will convey marketable title to the Property by statutory warranty deed or trustee, personal representative or guardian deed as appropriate to Seller's status.

152 (a) **Title Evidence:** Title evidence will show legal access to the Property and marketable title of record in Seller in accordance with current title standards adopted by the Florida Bar, subject only to the following title exceptions, none of which prevent Buyer's intended use of the Property as residential:

154 covenants, easements and restrictions of record; matters of plat; existing zoning and government regulations; oil, gas and mineral rights of record if there is no right of entry; current taxes; mortgages that Buyer will assume; and encumbrances that Seller will discharge at or before closing. Seller will, prior to closing, deliver to Buyer Seller's choice of one of the following types of title evidence:

158 (1) A title insurance commitment issued by a Florida-licensed title insurer in the amount of the purchase price and subject only to title exceptions set forth in this Contract.

162 (2) An existing abstract of title from a reputable and existing abstract firm (if firm is not existing, then abstract must be certified as correct by an existing firm) purporting to be an accurate synopsis of the instruments affecting title to the Property recorded in the public records of the county where the Property is located and certified to Effective Date. However if such an abstract is not available to Seller, then a prior owner's title policy acceptable to the proposed insurer as a base for reissuance of coverage. Seller will pay for copies of all policy exceptions and an update in a format acceptable to Buyer's closing agent from the policy effective date and certified to Buyer or Buyer's closing agent, together with copies of all documents recited in the prior policy and in the update. If a prior policy is not available to Seller then (1) above will be the title evidence. Title evidence will be delivered no later than 10 days before Closing Date.

171 (b) **Title Examination:** Buyer will examine the title evidence and deliver written notice to Seller, within 5 days from receipt of title evidence but no later than closing, of any defects that make the title unmarketable. Seller will have 30 days from

174 receipt of Buyer's notice of defects ("Cure Period") to cure the defects at Seller's expense. If Seller cures the defects within the Cure Period, Seller will deliver written notice to Buyer and the parties will close the transaction on Closing Date or within 10 days from Buyer's receipt of Seller's notice. If Seller is unable to cure the defects within the Cure Period, Seller will deliver written notice to Buyer and Buyer will, within 10 days from receipt of Seller's notice, either cancel this Contract or accept title with existing defects and close the transaction. (e) Survey: Buyer may, prior to Closing Date and at Buyer's expense, have the Property surveyed and deliver written notice to Seller, within 5 days from receipt of survey but no later than closing, of any encroachments on the Property, encroachments by the Property's improvements on other lands or deed restriction or zoning violations. Any such encroachment or violation will be treated in the same manner as a title defect and Buyer's and Seller's obligations will be determined in accordance with subparagraph (b) above. If any part of the Property lies seaward of the coastal construction control line, Seller will provide Buyer with an affidavit or survey as required by law delineating the line's location on the property, unless Buyer waives this requirement in writing.

MISCELLANEOUS

187 9. EFFECTIVE DATE; TIME: The "Effective Date" of this Contract is the date on which the last of the parties initials or signs the latest offer. Time is of the essence for all provisions of this Contract. All time periods expressed as days will be computed in business days (a "business day" is every calendar day except Saturday, Sunday and national legal holidays), except for time periods greater than 60 days, which will be computed in calendar days. If any deadline falls on a Saturday, Sunday or national legal holiday, performance will be due the next business day. All time periods will end at 5:00 p.m. local time (meaning in the county where the Property is located) of the appropriate day.

193 10. NOTICES: All notices will be made to the parties and Broker by mail, personal delivery or electronic media. Buyer's failure to deliver timely written notice to Seller, when such notice is required by the Contract, regarding any contingencies will render that contingency null and void and the Contract will be construed as if the contingency did not exist.

196 11. COMPLETE AGREEMENT: This Contract is the entire agreement between Buyer and Seller. Except for brokerage agreements, no prior or present agreements will bind Buyer, Seller or Broker unless incorporated into this Contract. Modifications of this Contract will not be binding unless in writing, signed and delivered by the party to be bound. Signatures, initials, documents returned in this Contract, counterparts and written modifications communicated electronically or on paper will be acceptable for all purposes, including delivery, and will be binding. Handwritten or typewritten terms inserted in or attached to this Contract prevail over printed terms. If any provision of this Contract is or becomes invalid or unenforceable, all remaining provisions will continue to be fully effective. This Contract will not be recorded in any public records.

203 12. ASSIGNABILITY; PERSONS BOUND: Buyer may not assign this Contract without Seller's written consent. The terms "Buyer," "Seller," and "Broker" may be singular or plural. This Contract is binding on the heirs, administrators, executors, personal representatives and assigns (if permitted) of Buyer, Seller and Broker.

DEFAULT AND DISPUTE RESOLUTION

206 13. DEFAULT: (a) Seller Default: If for any reason other than failure of Seller to make Seller's title marketable after diligent effort, Seller fails, refuses or neglects to perform this Contract, Buyer may choose to receive a return of Buyer's deposit without waiting the right to seek specific performance or to seek damages or to perform this Contract. Buyer will also be liable to Broker for the full amount of the brokerage fee. (b) Buyer Default: If Buyer fails to perform this Contract within the time specified, including timely payment of all deposits, Seller may choose to retain and collect all deposits paid and agreed to be paid as liquidated damages or to seek specific performance as per Paragraph 16, and Broker will, upon demand, receive 50% of all deposits paid and agreed to be paid (to be split equally among cooperating brokers) up to the full amount of the brokerage fee.

214 14. DISPUTE RESOLUTION: This Contract will be construed under Florida law. All controversies, claims, and other matters in question arising out of or relating to this transaction or this Contract or its breach will be settled as follows: (a) Disputes concerning enforcement to deposits made and agreed to be made: Buyer and Seller will have 30 days from the date conflicting demands are made to attempt to resolve the dispute through mediation. If that fails, Escrow Agent will submit the dispute, if so required by Florida law, to Escrow Agent's choice of arbitration, a Florida court or the Florida Real Estate Commission. Buyer and Seller will be bound by any resulting settlement or order. (b) All other disputes: Buyer and Seller will have 30 days from the date a dispute arises between them to attempt to resolve the matter through mediation, failing which the parties will resolve the dispute through neutral binding arbitration in the county where the Property is located. The arbitrator may not alter the Contract terms or award any remedy not provided for in this Contract. The award will be based on the greater weight of the evidence and will state findings of fact and the contractual authority on which it is based. If the parties agree to use discovery, it will be in accordance with the Florida Rules of Civil Procedure and the arbitrator will resolve all discovery-related disputes. Any disputes with a real estate licensee named in Paragraph 17 will be submitted to arbitration only if the licensee's broker consents in writing to become a party to the proceeding. This clause will survive closing.

225 (c) Mediation and Arbitration; Expenses: "Mediation" is a process in which parties attempt to resolve a dispute by submitting it to an impartial mediator who facilitates the resolution of the dispute but who is not empowered to impose a settlement on the parties. Mediation will be in accordance with the rules of the American Arbitration Association ("AAA") or other mediator agreed on by the parties. The parties will equally divide the mediation fee, if any. "Arbitration" is a process in which the parties resolve a dispute by a hearing before a neutral person who decides the matter and whose decision is binding on the parties. Arbitration will be in accordance with the rules of the AAA or other arbitrator agreed on by the parties. Each party to any arbitration will pay its own fees, costs and expenses, including attorneys' fees, and

234 on by the parties. Each party to any arbitration will pay its own fees, costs and expenses, including attorneys' fees, and  
233 decision is binding on the parties. Arbitration will be in accordance with the rules of the AAA or other arbitrator agreed  
232 process in which the parties resolve a dispute by a hearing before a neutral person who decides the matter and whose  
231 or other mediator agreed on by the parties. The parties will equally divide the mediation fee, if any. "Arbitration" is a  
230 settlement on the parties. Mediation will be in accordance with the rules of the American Arbitration Association ("AAA")  
229 submitting it to an impartial mediator who facilitates the resolution of the dispute but who is not empowered to impose a  
228 (c) Mediation and Arbitration; Expenses: "Mediation" is a process in which parties attempt to resolve a dispute by  
227 licensee's broker consents in writing to become a party to the proceeding. This clause will survive closing.  
226 disputes. Any disputes with a real estate licensee named in Paragraph 17 will be submitted to arbitration only if the  
225 be in accordance with the Florida Rules of Civil Procedure and the arbitrator will resolve all discovery-related  
224 state findings of fact and the contractual authority on which it is based. If the parties agree to use discovery, it will  
223 remedy not provided for in this Contract. The award will be based on the greater weight of the evidence and will  
222 arbitration in the county where the Property is located. The arbitrator may not alter the Contract terms or award any  
221 resolve the matter through mediation, failing which the parties will resolve the dispute through neutral binding  
220 (b) All other disputes: Buyer and Seller will have 30 days from the date a dispute arises between them to attempt to  
219 Florida Real Estate Commission. Buyer and Seller will be bound by any resulting settlement or order.  
218 will submit the dispute, if so required by Florida law, to Escrow Agent's choice of arbitration, a Florida court or the  
217 the date conflicting demands are made to attempt to resolve the dispute through mediation. If that fails, Escrow Agent  
216 (a) Disputes concerning enforcement to deposits made and agreed to be made: Buyer and Seller will have 30 days from  
215 question arising out of or relating to this transaction or this Contract or its breach will be settled as follows:

236 will equally split the arbitrators' fees and administrative fees of arbitration. In a civil action to enforce an arbitration award, the prevailing party to the arbitration shall be entitled to recover from the nonprevailing party reasonable attorneys' fees, costs and expenses.

**ESCROW AGENT AND BROKER**

239 ESCROW AGENT: Buyer and Seller authorize Escrow Agent to receive, deposit and hold funds and other items in  
 240 escrow and, subject to clearance, disburse them upon proper authorization and in accordance with the terms of this  
 241 Contract, including disbursing brokerage fees. The parties agree that Escrow Agent will not be liable to any person for  
 242 misdelivery of escrowed items to Buyer or Seller, unless the misdelivery is due to Escrow Agent's willful breach of this  
 243 Contract or gross negligence. If Escrow Agent interpleads the subject matter of the escrow, Escrow Agent will pay the  
 244 filing fees and costs from the deposit and will recover reasonable attorneys' fees and costs to be paid from the  
 245 escrowed funds or equivalent and charged and awarded as court costs in favor of the prevailing party. All claims  
 246 against Escrow Agent will be arbitrated, so long as Escrow Agent consents to arbitrate.

**16. PROFESSIONAL ADVICE; BROKER LIABILITY; BROKER AND SELLER TO VERIFY ALL FACTS AND REPRESENTATIONS**

248 that are important to them and to consult an appropriate professional for legal advice (for example, interpreting contracts,  
 249 determining the effect of laws on the Property and transaction, status of title, foreign investor reporting requirements, etc.)  
 250 and for tax, property condition, environmental and other specialized advice. Buyer acknowledges that Broker does not  
 251 reside in the Property and that all representations (oral, written or otherwise) by Broker are based on Seller  
 252 representations or public records unless Broker indicates personal verification of the representation. Buyer agrees to rely  
 253 solely on Seller, professional inspectors and governmental agencies for verification of the Property condition and facts  
 254 that materially affect Property value. Buyer and Seller respectively will pay all costs and expenses, including reasonable  
 255 attorneys' fees at all levels, incurred by Broker and Seller's officers, directors, agents and employees in connection with  
 256 or arising from Buyer's or Seller's misstatement or failure to perform contractual obligations. Buyer and Seller hold  
 257 harmless and release Broker and Seller's officers, directors, agents and employees from all liability for loss or damage  
 258 based on (1) Buyer's or Seller's misstatement or failure to perform contractual obligations; (2) Broker's performance, at  
 259 Buyer's and/or Seller's request, or any task beyond the scope of services regulated by Chapter 475, F.S., as amended,  
 260 including Broker's referral, recommendation or retention of any vendor; (3) products or services provided by any vendor;  
 261 and (4) expenses incurred by any vendor. Buyer and Seller each assume full responsibility for selecting and  
 262 compensating their respective vendors. This paragraph will not relieve Broker of statutory obligations. For purposes of this  
 263 paragraph, Broker will be treated as a party to this Contract. This paragraph will survive closing.

264 **17. BROKERS:** The licensee(s) and broker(s) named below are collectively referred to as "Broker." Seller and Buyer  
 265 acknowledge that the broker(s) named below are the procuring cause of this transaction. Instruction to Closing Agent  
 266 Seller and Buyer direct closing agent to disburse the full amount of the brokerage fees as specified in separate  
 267 brokerage agreements with the parties and cooperative agreements between the brokers, unless Broker has retained such  
 268 fees from the escrowed funds. In the absence of such brokerage agreements, closing agent will disburse brokerage fees  
 269 as indicated below.

271	Real Estate License	Real Estate License
272	Real Estate License	Real Estate License
273	Broker / Brokerage fee: (\$ or % of Purchase Price)	Broker / Brokerage fee: (\$ or % of Purchase Price)
274	Broker / Brokerage fee: (\$ or % of Purchase Price)	Broker / Brokerage fee: (\$ or % of Purchase Price)

**ADDITIONAL TERMS**

**18. ADDITIONAL TERMS:**

276 Seller to pay all interest on first mortgage thru 8-31-05  
 277 Buyer will pay all Title Evidence Fee's and any and all closing cost due at closing.  
 278 Buyer to pay Seller \$15,000 at signing this contract.

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322 This is intended to be a legally binding contract. If not fully understood, seek the advice of an attorney prior to signing.

OFFER AND ACCEPTANCE

324 (Check if applicable:  Buyer received a written real property disclosure statement from Seller before making this Offer.)  
325 Buyer offers to purchase the Property on the above terms and conditions. Unless this Contract is signed by Seller and a  
326 copy delivered to Buyer no later than  a.m.  p.m. on 2005, this offer will be  
327 revoked and Buyer's deposit refunded subject to clearance of funds.

328 Date: 8-3-05  
Buyer: [Signature]  
Print name: Isaac Construction, Inc.  
Tax ID/SSN: \_\_\_\_\_

330 Date: \_\_\_\_\_  
Buyer: \_\_\_\_\_  
Print name: \_\_\_\_\_  
Address: \_\_\_\_\_  
332 Phone: \_\_\_\_\_  
333 Fax: \_\_\_\_\_

334 Date: 8-3-05  
Seller: \_\_\_\_\_  
Print name: Southeast Developers Group, Inc.  
Tax ID/SSN: \_\_\_\_\_

336 Date: \_\_\_\_\_  
Seller: \_\_\_\_\_  
Print name: \_\_\_\_\_  
Tax ID/SSN: 201-22-7524

340  Seller counters Buyer's offer (to accept the counter offer, Buyer must sign or initial the counter offered terms and deliver a  
341 copy of the acceptance to Seller by 5:00 p.m. on \_\_\_\_\_),  Seller rejects Buyer's offer.

342 Effective Date: \_\_\_\_\_  
(The date on which the last party signed or initialed acceptance of the final offer.)

343 Buyer ( ) and Seller ( ) acknowledge receipt of a copy of this page, which is Page 6 of 6 Pages.

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224 SW PHEASANT WAY

SCALE: 1" = 20'-0"

139.20'

25'-0" FRONT SETBACK

50'-0"

50'-0"

36'-1"

67'-0"

36'-1"

10'-0" SIDE SETBACK

156.50'

*City Public Worker*

ISAAC CONSTRUCTION  
THE SOMERSET MODEL  
LOT 102, CALLAWAY PHASE 3

58'-10"

58'-10"

10'-0" SIDE SETBACK

156.50'

SEPTIC TANK

67'-0"

36'-1"

DRAIN FIELD

41'-8"

41'-8"

15'-0" REAR SETBACK

139.20'

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name: Isaac Construction Inc. - Somerset Model  
 Address: Lot 14, Sub: Callaway, Plat: Phase III  
 City, State: Lake City, FL 32025  
 Owner: Spec House  
 Climate Zone: North  
 Builder: Isaac Construction Inc.  
 Permitting Office: Columbia  
 Permit Number: 23980  
 Jurisdiction Number: 22000

1. New construction or existing	Single family or multi-family	1	Single family	—	12. Cooling systems	a. Central Unit	Cap: 49.0 kBtu/hr SEER: 12.50
2. Single family or multi-family	Number of units, if multi-family	4	4	—	b. N/A	—	—
3. Number of units, if multi-family	Number of Bedrooms	No	No	—	c. N/A	—	—
4. Number of Bedrooms	Is this a worst case?	2154 ft <sup>2</sup>	2154 ft <sup>2</sup>	—	a. Heating systems	Cap: 49.0 kBtu/hr HSPF: 6.80	
5. Is this a worst case?	Conditioned floor area (ft <sup>2</sup> )	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>	—	b. N/A	—	
6. Conditioned floor area (ft <sup>2</sup> )	Glass area & type	456.0 ft <sup>2</sup>	456.0 ft <sup>2</sup>	—	a. Electric Heat Pump	Cap: 50.0 gallons EF: 0.90	
7. Glass area & type	Clear - single pane	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>	—	b. N/A	—	
8. Clear - single pane	Clear - double pane	R=0.0, 249.0(p) ft	R=0.0, 249.0(p) ft	—	c. N/A	—	
9. Clear - double pane	Tin/other SHGC - single pane	R=13.0, 1556.0 ft <sup>2</sup>	R=13.0, 1556.0 ft <sup>2</sup>	—	a. Hot water systems	—	
10. Tin/other SHGC - single pane	Tin/other SHGC - double pane	R=13.0, 182.0 ft <sup>2</sup>	R=13.0, 182.0 ft <sup>2</sup>	—	b. N/A	—	
11. Tin/other SHGC - double pane	Floor types	—	—	—	a. Electric Resistance	—	
12. Floor types	Slab-On-Grade Edge Insulation	—	—	—	c. Conservation credits	—	
13. Slab-On-Grade Edge Insulation	Wall types	—	—	—	(HR-Heat recovery, Solar	—	
14. Wall types	Frame, Wood, Exterior	—	—	—	DHP-Dedicated heat pump)	—	
15. Frame, Wood, Exterior	Frame, Wood, Adjacent	—	—	—	c. HVAC credits	—	
16. Frame, Wood, Adjacent	Frame, Wood, Exterior	—	—	—	(CF-Ceiling fan, CV-Cross ventilation,	—	
17. Frame, Wood, Exterior	Ducts	—	—	—	HF-Whole house fan,	—	
18. Ducts	Sup: Unc. Ret: Unc. AH: Garage	—	—	—	PT-Programmable Thermostat,	—	
19. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 65.0 ft	—	—	—	MZ-C-Multizone cooling,	—	
20. Sup. R=6.0, 65.0 ft		—	—	—	MZ-H-Multizone heating)	—	

Glass/Floor Area: 0.21  
 Total as-built points: 3357  
 Total base points: 33363  
**PASS**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  
 PREPARED BY: Will Myers  
 DATE: 08/27/05  
 OWNER/AGENT: *[Signature]*  
 DATE: 9-12-05

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.  
 BUILDING OFFICIAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025 PERMIT #:

<b>BASE</b>	<b>AS-BUILT</b>
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<b>GLASS TYPES</b> .16 X Conditioned X BSPM = Points Floor Area	Type/SC Overhang Ornt Len Hgt Area X SPM X SOF = Points
---	---

1.11 2154.0 20.04 7769.9	Double, Clear W 1.5 6.0 30.0 36.99 0.91 1013.5 SW 1.5 8.0 21.0 38.46 0.95 763.9 W 1.5 8.0 28.0 36.99 0.96 992.2 NW 2.5 8.0 21.0 25.46 0.89 474.3 NW 10.5 9.7 20.0 25.46 0.62 317.3 W 10.3 8.0 30.0 36.99 0.47 1469.6 W 10.3 8.0 30.0 36.99 0.47 524.9 N 1.5 6.0 30.0 19.22 0.94 541.2 N 1.5 2.0 4.0 19.22 0.76 58.2 Double, Clear E 1.5 8.0 60.0 40.22 0.96 2310.9 Double, Clear E 1.5 6.0 30.0 40.22 0.91 1101.4 Double, Clear E 1.5 5.0 40.0 40.22 0.87 1407.1 Double, Clear E 9.5 9.7 22.0 40.22 0.52 462.0 Double, Clear S 1.5 5.0 16.0 34.50 0.81 445.4 Double, Clear S 1.5 6.0 20.0 34.50 0.86 590.7 As-Built Total: 456.0
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<b>WALL TYPES</b> Area X BSPM = Points	Type R-Value Area X SPM = Points
Adjacent 127.4 Exterior 2645.2 Frame, Wood, Exterior 13.0 1556.0 Frame, Wood, Adjacent 13.0 182.0 As-Built Total: 2772.6	Adjacent 182.0 0.70 127.4 Exterior 1556.0 1.70 2645.2 Frame, Wood, Exterior 13.0 1556.0 Frame, Wood, Adjacent 13.0 182.0 As-Built Total: 2443.2

<b>DOOR TYPES</b> Area X BSPM = Points	Type R-Value Area X SPM = Points
Adjacent 43.2 Exterior 122.0 18.0 2.40 43.2 20.0 6.10 122.0 As-Built Total: 165.2	Adjacent 20.0 4.10 82.0 Exterior 18.0 1.60 28.8 As-Built Total: 110.8

<b>CEILING TYPES</b> Area X BSPM = Points	Type R-Value Area X SPM X SCM = Points
Under Attic 3726.4 2154.0 1.73 3726.4 As-Built Total: 3726.4	Under Attic 30.0 2316.0 1.73 X 1.00 4006.7 As-Built Total: 4006.7

<b>FLOOR TYPES</b> Area X BSPM = Points	Type R-Value Area X SPM = Points
Slab 249.0(p) Raised 0.00 -9213.0 -37.0 0.00 249.0(p) As-Built Total: -9213.0	Slab-On-Grade Edge Insulation 0.0 249.0(p) -41.20 -10258.8 As-Built Total: -10258.8

# SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025- PERMIT #:

<b>BASE</b>		<b>AS-BUILT</b>						
<b>IN:ILTRATION</b>	Area X BSPM = Points	Area X SPM = Points						
	2154.0    10.21    21992.3	2154.0    10.21    21992.3						
<b>Summer Base Points: 27213.5</b>		<b>Summer As-Built Points: 30766.7</b>						
Total Summer X System = Cooling Points		Total X Cap X Duct X System X Credit = Cooling Points						
Multiplier		Multiplier						
Points		Points						
Component Ratio		Component Ratio						
(DM x DSM x AHU)		(DM x DSM x AHU)						
27213.5	0.4266	11609.3	30766.7	1.00	(1.090 x 1.147 x 1.00)	0.273	1.000	10502.6

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025- PERMIT #:

BASE		AS-BUILT	
<b>GLASS TYPES</b>			
.16 X Conditioned X BWPM = Points		Overhang	
Floor Area		Ornt Len Hgt Area X WPM X WOF = Points	
4939.6	2154.0	12.74	4939.6
Double, Clear	W	1.5	6.0
Double, Clear	SW	1.5	8.0
Double, Clear	W	1.5	8.0
Double, Clear	NW	2.5	8.0
Double, Clear	NW	10.5	9.7
Double, Clear	W	10.3	8.0
Double, Clear	W	10.3	8.0
Double, Clear	W	10.3	8.0
Double, Clear	N	1.5	2.0
Double, Clear	N	1.5	6.0
Double, Clear	E	1.5	8.0
Double, Clear	E	1.5	6.0
Double, Clear	E	1.5	5.0
Double, Clear	E	9.5	9.7
Double, Clear	S	1.5	5.0
Double, Clear	S	1.5	6.0
<b>WALL TYPES</b>		Type R-Value Area X WPM = Points	
Adjacent	182.0	3.60	655.2
Exterior	1556.0	3.70	5757.2
Frame, Wood, Exterior		13.0	1556.0
Frame, Wood, Adjacent		13.0	182.0
3.40		3.30	600.6
5290.4		5891.0	
<b>DOOR TYPES</b>		Type R-Value Area X WPM = Points	
Adjacent	18.0	11.50	207.0
Exterior	20.0	12.30	246.0
Adjacent Insulated		20.0	8.40
Exterior Insulated		18.0	8.00
312.0		38.0	
<b>CEILING TYPES</b>		Type R-Value Area X WPM X WCM = Points	
Under Attic	2154.0	2.05	4415.7
Under Attic		30.0	2316.0
2.05 X 1.00		4747.8	
4747.8		2316.0	
<b>FLOOR TYPES</b>		Type R-Value Area X WPM = Points	
Slab	249.0(p)	8.9	2216.1
Raised	0.0	0.00	0.0
Slab-On-Grade Edge Insulation		0.0	249.0(p)
18.80		4681.2	
4681.2		249.0	
<b>As-Built Total:</b>		<b>As-Built Total:</b>	
2216.1		2216.1	
4681.2		4681.2	

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025- PERMIT #:

<b>BASE</b>	<b>AS-BUILT</b>					
IN:ILTRATION Area X BWPM = Points	Area X WPM = Points					
2154.0 -0.59 -1270.9	2154.0 -0.59 -1270.9					
<b>Winter Base Points: 17165.9</b>	<b>Winter As-Built Points: 19331.8</b>					
Total Winter X System = Heating Points	Total X Cap X Duct X System X Credit = Heating Points					
Points Multiplier	(DM x DSM x AHU)					
17165.9 0.6274 10769.9	19331.8 1.00 (1.069 x 1.169 x 1.00) 0.501 1.250 0.501 1.000 12114.6					

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025- PERMIT #:

<b>BASE</b>	<b>AS-BUILT</b>
<b>WATER HEATING</b> Number of Bedrooms X Multiplier = Total 4 2746.00 10984.0	Tank EF Number of Bedrooms X Tank X Multiplier X Credit = Total Volume Bedrooms Ratio Multiplier 50.0 0.90 4 1.00 2684.98 1.00 10739.9 10739.9
As-Built Total: 10984.0	As-Built Total: 10739.9

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
11609	+	10770	+	10984	+	10740	33357
Cooling Points		Heating Points		Hot Water Points		Hot Water Points	Total Points
=		=		=		=	
33363				10503			
Total Points				Cooling Points			
+		+		+		+	
Total Points		Total Points		Total Points		Total Points	

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025 PERMIT #:

### 6/1-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

### 6/1-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Stower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
All Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 82.8**

The higher the score, the more efficient the home.

Spec House, Lot: 71, Sub: Callaway, Plat: Phase III, Lake City, FL, 32025-

Item	Description	Value	Notes
1.	New construction or existing	Single family or multi-family	1
2.	Single family or multi-family	Single family	1
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft <sup>2</sup> )	2154 ft <sup>2</sup>	
7.	Glass area & type	0.0 ft <sup>2</sup>	
a.	Clear - single pane	0.0 ft <sup>2</sup>	
b.	Clear - double pane	456.0 ft <sup>2</sup>	
c.	Tin/other SHGC - single pane	0.0 ft <sup>2</sup>	
d.	Tin/other SHGC - double pane	0.0 ft <sup>2</sup>	
8.	Floor types	R=0.0, 249.0(p) ft	
a.	Slab-On-Grade Edge Insulation		
b.	N/A		
c.	N/A		
9.	Wall types	R=13.0, 1556.0 ft <sup>2</sup>	
a.	Frame, Wood, Exterior		
b.	Frame, Wood, Adjacent		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2316.0 ft <sup>2</sup>	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 65.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit		
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump		
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance		
b.	N/A		
c.	Conservation credits		
(HR-Heat recovery; Solar			
DHP-Dedicated heat pump)			
15.	HVAC credits		
(CF-Ceiling fan, CV-Cross ventilation,			
HF-Whole house fan,			
PT-Programmable Thermostat,			
MZ-C-Multizone cooling,			
MZ-H-Multizone heating)			

Cap: 50.0 gallons  
EF: 0.90

Cap: 49.0 kBtu/hr  
HSPF: 6.80

Cap: 49.0 kBtu/hr  
SEER: 12.50

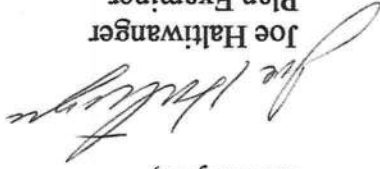
I certify that this home has complied with the Florida Energy Efficiency Code For Building in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Buyer Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*NTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs Energy Gauge. Version: FLR1PB v3.22

Columbia County Building Department  
Plan Examiner  
Joe Haltiwanger



Thank you,

*Proof of Ownership*

the new code requirements.

Nicholas Geisler was design under the Florida Building 2001 and should be updated to reflect 2005 will be reviewed under the Florida Residential Code 2004. The Wind Load design by Mr. 2. Application 0510-07 which was filed with the building department on the date of October 3,

requesting any inspections on this dwelling.

1. Please submit a recorded notice of commencement with this department prior to

application.

Please include application number 0510-07 when making reference to this

On the date of October 12, 2005 application 0510-07 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Reference to: Build permit application Number: 0510-07 ISAAC Construction  
Lot 102 Phase 3 of Callaway Subdivision.

From: The Columbia County Building Department  
Plans Review  
135 NE Hernando Av.  
P. O Box 1529  
Lake City Florida, 32056-1529

**FAX**

Date: 12-20-05

To: Who-ever checks the fax

From: Linda

North Florida Permit Services, INC.  
Ph: 386-752-2281 Fax: 386-752-2282

Pages: 4

Here is the Warranty Deed and the Notice of  
Commencement for Callaway Lot 102 for Isaac Construction. Please call me when this is ready  
Linda  
for a permit. Thanks!



Phone: 386-758-1008 Fax: 386-758-2160

Lake City, FL 32055

135 NE Hernando Ave., Suite B-21

Amount Paid 25.00

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALLATION OF THE CULVERT.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other

Department of Transportation Permit installation approved standards.

Culvert installation shall conform to the approved site plan standards.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

a) a majority of the current and existing driveway turnouts are paved, or;  
b) the driveway to be served will be paved or formed with concrete.

INSTALLATION NOTE: Turnouts will be required as follows:

Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

**INSTALLATION REQUIREMENTS**

SIGNATURE

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CALLAWAY 102 3

TR, AND ITS THE 5TH LOT ON THE R.

LOCATION OF PROPERTY SR 247-S TO CALLAHAN ROAD, TL GO TO PHEASANT TO PLEASANT

CONTRACTOR ISAAC BRATKOVICH

PHONE 386.719-7143

ADDRESS 224 SW PHEASANT WAY

LAKE CITY FL 32024

OWNER ISAAC CONSTRUCTION INC.

PHONE 386.719.7143

ADDRESS 387 SW KEMP COURT

LAKE CITY FL 32024

APPLICANT LINDA RODER

PHONE 752.2281

DATE 12/21/2005

PARCEL ID # 15-4S-16-03023-402

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No. 000000922**

23980

# Residential System Sizing Calculation

## Summary

Spec House

Project Title: Isaac Construction Inc. - Somerset Model

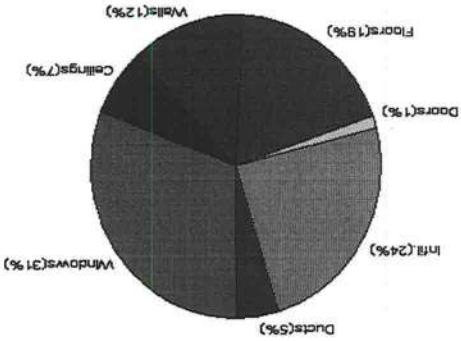
Like City, FL 32025-

Class 3 Rating  
Registration No. 0  
Climate: North

8/29/2005

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)		Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)	
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
<b>Total heating load calculation</b>	<b>41277 Btuh</b>	<b>Total cooling load calculation</b>	<b>47018 Btuh</b>
Submitted heating capacity	49000 Btuh	Submitted cooling capacity	49000 Btuh
Submitted as % of calculated	118.7 %	Submitted as % of calculated	104.2 %

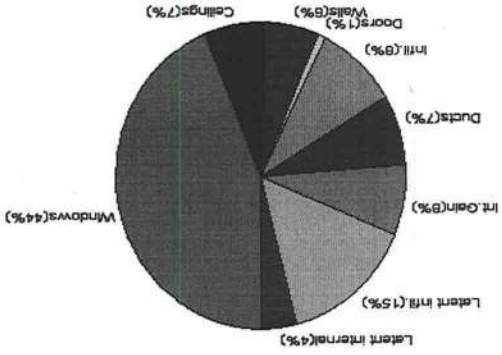
## WINTER CALCULATIONS



Load component	Load		
Window total	456	sqft	12905 Btuh
Wall total	1738	sqft	5115 Btuh
Floor total	38	sqft	536 Btuh
Ceiling total	2316	sqft	3011 Btuh
Floor total	249	ft	7868 Btuh
Infiltration	230	cfm	9876 Btuh
Subtotal	39311	Btuh	
DUCT LOSS	1966	Btuh	
<b>TOTAL HEAT LOSS</b>	<b>41277</b>	<b>Btuh</b>	

Winter Heating Load (for 2154 sqft)

## SUMMER CALCULATIONS



Load component	Load		
Window total	456	sqft	20560 Btuh
Wall total	1738	sqft	2897 Btuh
Floor total	38	sqft	385 Btuh
Ceiling total	2316	sqft	3289 Btuh
Floor total	0	Btuh	0 Btuh
Infiltration	201	cfm	3989 Btuh
Internal gain	3600	Btuh	
Subtotal(sensible)	34720	Btuh	
DUCT gain	3472	Btuh	
Total sensible gain	38192	Btuh	
Latent gain(infiltration)	6986	Btuh	
Latent gain(internal)	1840	Btuh	
Total latent gain	8826	Btuh	
<b>TOTAL HEAT GAIN</b>	<b>47018</b>	<b>Btuh</b>	

Summer Cooling Load (for 2154 sqft)

EnergyGauge® System Sizing based on ACCA Manual J.  
PREPARED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

# System Sizing Calculations - Winter

## Residential Load - Component Details

Spec House

Project Title:

Isaac Construction Inc. - Somerset Model

Lake City, FL 32025-

Class 3 Rating  
Registration No. 0  
Climate: North

8/29/2005

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
2	2, Clear, Metal, DEF	SW	21.0	28.3	594 Btuh
3	2, Clear, Metal, DEF	W	28.0	28.3	792 Btuh
4	2, Clear, Metal, DEF	NW	21.0	28.3	594 Btuh
5	2, Clear, Metal, DEF	NW	20.0	28.3	566 Btuh
6	2, Clear, Metal, DEF	W	84.0	28.3	2377 Btuh
7	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
8	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
9	2, Clear, Metal, DEF	N	4.0	28.3	113 Btuh
10	2, Clear, Metal, DEF	E	60.0	28.3	1698 Btuh
11	2, Clear, Metal, DEF	E	30.0	28.3	849 Btuh
12	2, Clear, Metal, DEF	E	40.0	28.3	1132 Btuh
13	2, Clear, Metal, DEF	E	22.0	28.3	623 Btuh
14	2, Clear, Metal, DEF	S	16.0	28.3	453 Btuh
15	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
Window Total					12905 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1556	3.1	4824 Btuh
2	Frame - Adjacent	13.0	182	1.6	291 Btuh
Wall Total					5115 Btuh
Doors	Type	R-Value	Area X	HTM=	Load
1	Insulated - Exter	20	18.3	18.3	367 Btuh
2	Insulated - Adjac	18	9.4	9.4	169 Btuh
Door Total					536 Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2316	1.3	3011 Btuh
Ceiling Total					3011 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	249.0 ft(p)	31.6	7868 Btuh
Floor Total					7868 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	17232(sqft)	230	9876 Btuh
	Mechanical			0	0 Btuh
Infiltration Total					9876 Btuh

Totals for Heating		Subtotal	39311 Btuh
Duct Loss(using duct multiplier of 0.05)			1966 Btuh
Total Btuh Loss			41277 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:

Isaac Construction Inc. - Somerset Model

Class 3 Rating

Registration No. 0

Climate: North

8/29/2005

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - Manual J Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )

# System Sizing Calculations - Summer

## Residential Load - Component Details

Spec House

Project Title:

Isaac Construction Inc. - Somerset Model

Lake City, FL 32025-

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 8/29/2005

Window	Type	Overhang	Gross Area (sqft)	Shaded	Unshaded	HTM	Load
1	2, Clear, DEF, N, N	W	30.0	4.0	26.0	22	1962 Btuh
2	2, Clear, DEF, N, N	SW	21.0	0.0	21.0	22	1302 Btuh
3	2, Clear, DEF, N, N	W	28.0	0.0	28.0	22	2016 Btuh
4	2, Clear, DEF, N, N	NW	21.0	0.0	21.0	22	1050 Btuh
5	2, Clear, DEF, N, N	NW	20.0	0.0	20.0	22	1000 Btuh
6	2, Clear, DEF, N, N	W	84.0	84.0	0.0	22	1848 Btuh
7	2, Clear, DEF, N, N	W	30.0	30.0	0.0	22	660 Btuh
8	2, Clear, DEF, N, N	N	30.0	0.0	30.0	22	660 Btuh
9	2, Clear, DEF, N, N	N	4.0	0.0	4.0	22	88 Btuh
10	2, Clear, DEF, N, N	E	60.0	7.7	52.3	22	3936 Btuh
11	2, Clear, DEF, N, N	E	30.0	4.0	26.0	22	1962 Btuh
12	2, Clear, DEF, N, N	E	40.0	10.0	30.0	22	2382 Btuh
13	2, Clear, DEF, N, N	E	22.0	13.6	8.4	22	902 Btuh
14	2, Clear, DEF, N, N	S	16.0	16.0	0.0	22	352 Btuh
15	2, Clear, DEF, N, N	S	20.0	20.0	0.0	22	440 Btuh
Window Total			456				20560 Btuh
Walls	Type	R-Value	Area	HTM	Load		
1	Frame - Exterior	13.0	1556.0	1.7	2707 Btuh		
2	Frame - Adjacent	13.0	182.0	1.0	189 Btuh		
Walls Total			1738.0		2897 Btuh		
Doors	Type	Area	HTM	Load			
1	Insulated - Exter	20.0	10.1	203 Btuh			
2	Insulated - Adjac	18.0	10.1	183 Btuh			
Doors Total			38.0		385 Btuh		
Ceilings	Type/Color	R-Value	Area	HTM	Load		
1	Under Attic/Dark	30.0	2316.0	1.4	3289 Btuh		
Ceilings Total			2316.0		3289 Btuh		
Floors	Type	R-Value	Size	HTM	Load		
1	Slab-On-Grade Edge Insulation	0.0	249.0 ft(p)	0.0	0 Btuh		
Floors Total			249.0		0 Btuh		
Infiltration	Type	ACH	Volume	CFM=	Load		
	Natural	0.70	17232	201.4	3989 Btuh		
	Mechanical			0	0 Btuh		
Infiltration Total					3989 Btuh		
Internal gain	Occupants	8	Btuh/occupant	X 300	+ 1200	Appliance	3600 Btuh

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title: Isaac Construction Inc. - Somerset Model

Class 3 Rating  
 Registration No. 0  
 Climate: North

8/29/2005

<b>Totals for Cooling</b>	
Subtotal	34720 Btuh
Duct gain(using duct multiplier of 0.10)	3472 Btuh
Total sensible gain	38192 Btuh
Latent infiltration gain (for 51 gr. humidity difference)	6986 Btuh
Latent occupant gain (8 people @ 230 Btuh per person)	1840 Btuh
Latent other gain	0 Btuh
<b>TOTAL GAIN</b>	<b>47018 Btuh</b>

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
 (U - Window U-Factor or 'DEF' for default)  
 (InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))  
 (ExSh - Exterior shading device: none(N) or numerical value)  
 (Ornt - compass orientation)



*1 APR 2002*

MAH:nb

Mark A. Hees, Technician

*Mark A. Hees*

For ARCHITECTURAL TESTING, INC.

Reference should be made to Report No. 01-41134-01 dated 03/26/02 for complete test specimen description and data.

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cm <sup>3</sup> /ft <sup>2</sup>
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf
Deflection	-70.8 psf
Forced Entry Resistance	Grade 10
	Passed

**KAMA/WVDA 101/S.2-97**  
**TEST REPORT SUMMARY**  
 Rendered to:  
**MI HOME PRODUCTS, INC.**  
**SERIES/MODEL: 650 Fm**  
**TYPE: Aluminum Single Hung Window**

I



Alan N. P...  
1 APRIL 2002

130 Derry Court  
York, PA 17402-9405  
Phone: 717.764.7700  
Fax: 717.764.4125  
www.archtest.com

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced poly spacer system. The active sash was obtained glazed utilizing a flexible vinyl wrap adhesive gasket. The fixed lite was interior glazed against double-sided adhesive glass tape and secured with PVC snap-in glazing beads.

Flush: All aluminum was white.

Screen Size: 4'-0-1/4" wide by 2'-11-1/8" high

Daylight Opening Size: 3'-11-3/8" wide by 2'-9-1/2" high

Active Sash Size: 4'-1-3/4" wide by 3'-0-5/8" high

Overall Size: 4'-4-1/4" wide by 6'-0-3/8" high

Type: Aluminum Single Hung Window

Series/Model: 650 Fin

**Test Specimen Description**

**Test Specification:** The test specimen was evaluated in accordance with AAMA/NWDA 101/S-2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

**Project Summary:** Architectural Testing, Inc. (ATI) was contacted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethtown, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Report No: 01-41134.01  
Test Date: 03/07/02  
Report Date: 03/26/02  
Expiration Date: 03/07/06

MI HOME PRODUCTS, INC.  
650 West Market Street  
P.O. Box 370  
Gatz, Pennsylvania 17030-0370

Rendered to

**AAMA/NWDA 101/S-2-97 TEST REPORT**

Architectural Testing





Allen H. Reeves  
1 APRIL 2002

Description	Quantity	Location
Screen plunger	2	4" from rail ends on top rail
Balance assembly	2	One in each jamb
Metal tilt pin	2	Active sash, bottom rail ends
Plastic tilt latch	2	Active sash, meeting rail ends
Metal cam lock with keeper		Midspar, sash meeting rail with keeper adjacent on fixed meeting rail

**Hardware:**

**Frame Construction:** The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

**Sash Construction:** The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rail into each jamb screw boss.

**Screen Construction:** The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Description	Quantity	Location
0.230" high by 0.270" backed polyfyle with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polyfyle with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

**Weatherstripping:**

Test Specimen Description: (Continued)

III



*Allen H. Reeves*  
1 APR 12 2 02 Z

21A.2 Uniform Load Structure (ASTM E 330-97)  
 (Measurements reported were taken on the meeting rail)  
 (Loads were held for 10 seconds)  
 @ 38.9 psf (positive) 0:02"  
 @ 52.1 psf (negative) 0:02"  
 0.18" max  
 0.18" max

\*Exceeds L/175 for deflection, but passes all other test requirements.

21A.1 Uniform Load Deflection (ASTM E 330-97)  
 (Measurements reported were taken on the meeting rail)  
 (Loads were held for 33 seconds)  
 @ 25.9 psf (positive) 0.42"  
 @ 34.7 psf (negative) 0.43"  
 0.26" max  
 0.26" max

Water Resistance (ASTM E 547-00)  
 (with and without screen)  
 WTP = 2.86 psf  
 No leakage  
 No leakage

Note #1: The tested specimen meets the performance levels specified in AIAA/NWDA 101/LS-2-97 for air infiltration.

Air Infiltration (ASTM E 283-91)  
 @ 1.57 psf (25 mph) 0.13 cfm/R<sup>2</sup>  
 0.3 cfm/R<sup>2</sup> max

221.6.1 Operating Force 11 lbs  
 30 lbs max  
 Allowed

The results are tabulated as follows:

**Test Results:**

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.  
 Reinforcement: No reinforcement was utilized.

Drainage: Sloped all

Test Specimen Description: (Continued)

IV



ALL 9. Rev. 1 APRIL 2002

Uniform Load Structural (ASTM E 330-97)  
 (Measurements reported were taken on the meeting rail)  
 Loads were held for 10 seconds)  
 @ 67.5 psi (positive)  
 @ 70.8 psi (negative)  
 0.05"  
 0.05"

\*Exceeds L/175 for deflection, but passes all other test requirements.

Uniform Load Deflection (ASTM E 330-97)  
 (Measurements reported were taken on the meeting rail)  
 Loads were held for 33 seconds)  
 @ 45.0 psi (positive)  
 @ 47.2 psi (negative)  
 0.47"  
 0.46"  
 0.26" max.  
 0.26" max.

Water Resistance (ASTM E 547-00)  
 (with and without screen)  
 WTP = 6.00 psi  
 No leakage  
 No leakage

4.3

**General Performance**

Lock Manipulation Test  
 Test A1 through A5  
 Test A7  
 No entry  
 No entry  
 No entry  
 No entry  
 No entry  
 No entry

Forced Entry Resistance (ASTM F 388-97)  
 Type: A  
 Grade: 10

Degassing Test (ASTM E 987)  
 In operating direction at 70 lbs  
 Meeting rail  
 Bottom rail  
 In remaining direction at 50 lbs  
 Left side  
 Right side  
 0.12"/25%  
 0.12"/25%  
 0.06"/12%  
 0.06"/12%  
 0.50"/100%  
 0.50"/100%  
 0.50"/100%  
 0.50"/100%

2.2.1.6.2

Paragraph Title of Test - Test Method Results Allowed

Test Specimen Description: (Continued)

II



01-41134.01  
MARK A. HESS

Technician

Mark A. Hess

*Mark A. Hess*

Allen N. Reeves, P.E.  
Director - Engineering Services

1 APRIL 2002

Allen N. Reeves, P.E.

*Allen N. Reeves*

For ARCHITECTURAL TESTING, INC.:

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

01-41134.01  
Page 5 of 5



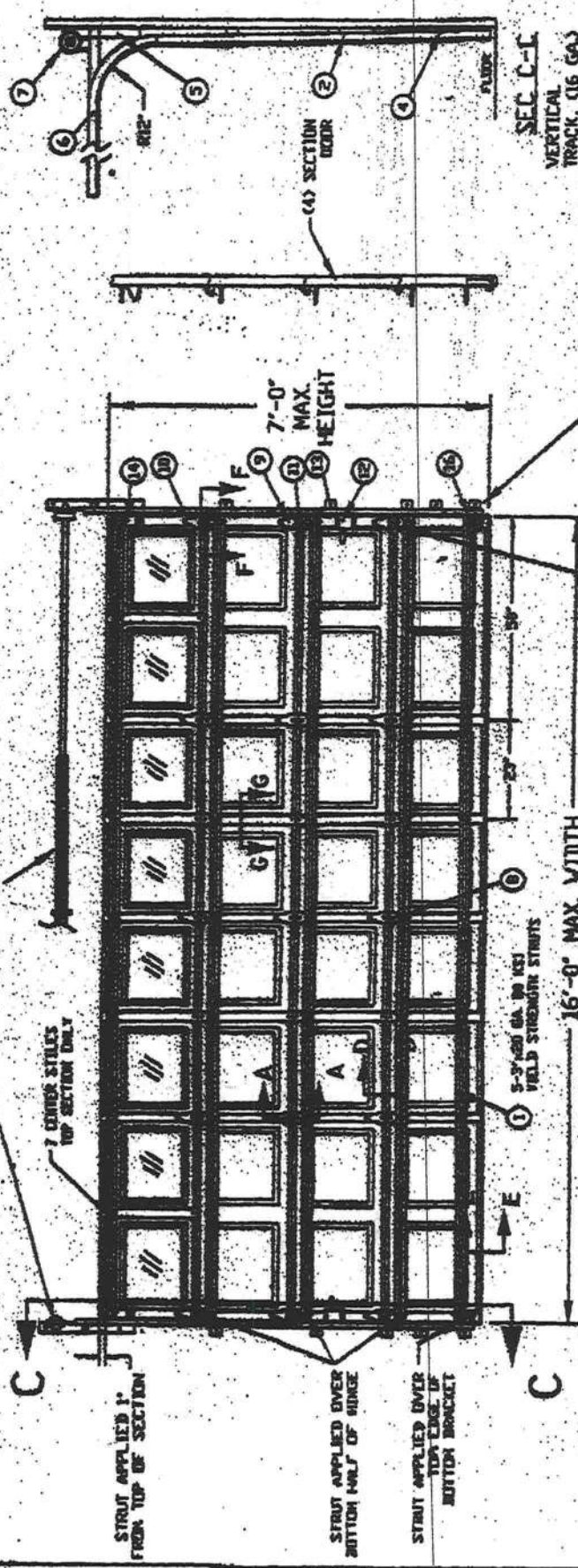
VI

**NOTES:**

1. TESTED AS PRELIMINARY AND SUBJECTIVE TO ANY DESIGN AND MODIFICATION AND WEIGHTS AS PER TEST PROCEEDURES PER ASTM E-339
2. VARIOUS SECTION HEIGHTS: 2'
3. SECTION HEIGHTS OF 2' AND 2'50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED BY THE TOP SECTION, GAS TESTED WITH LIP AND GLASS OR EQUIVALENT OR BY THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF INSULATION TO BE 6" AS TESTED
6. THE STRUT PLACEMENT ON THIS MUST BE ACCORDANT WITH THE TEST METHOD
7. STRUTS REQUIRED AT ALL CORNERS WITH 10% SPARE
8. QUANTITY OF HINGE LOCKS CAN BE 1/2 OR AS NOTED.

**A** GROUP IN TYPE OF INSULATION IS OPTIONAL

NOT PART OF YOUR LAMB SYSTEM  
EXTENDED SPRING COMPARTMENT  
TYPICAL SPRING COMPARTMENT



**SEC C-C**  
VERTICAL TRACK, (16 GA.)

12 GA. HINGE BRACKETS, MAXIMUM SPACING = 19-1/2" WITH LATEST BRACKET APPROX. 3" FROM FLOOR, END BRACKET NEAR THE HORIZONTAL E OF THE BOTTOM SECTION, AND END BRACKET NEAR THE TOP OF THE BOTTOM SECTION.

ALL ROLLER CARRIERS AND HINGES ARE 14 GA.

16'-0" MAX. WIDTH

7'-0" MAX. HEIGHT

3'-0" MAX. HINGE SPACING

5'-0" MAX. WINDOW SPACING

3'-0" MAX. WINDOW HEIGHT

2'-0" MAX. WINDOW WIDTH

1'-0" MAX. WINDOW DEPTH

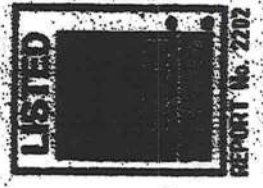
1'-0" MAX. WINDOW SPACING

1'-0" MAX. WINDOW HEIGHT

1'-0" MAX. WINDOW WIDTH

1'-0" MAX. WINDOW DEPTH

1'-0" MAX. WINDOW SPACING



The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

TEST REPORTS ON FILE VIDEO 10/10/78 600323

GAUCO DOORS  
SERIES 7480, EXTERIOR STEEL = .017 MIN GAS TESTED  
SERIES 7025, EXTERIOR STEEL = .009" MIN A  
SERIES 7284, EXTERIOR STEEL = .024" MIN A  
(TESTED WITH WINDOWS)

MAXIMUM WINDOW WIDTH	MAXIMUM WINDOW HEIGHT	TYPICAL CURVE STYLING SPACING	STAYS TO EXIST. STEEL	VERTICAL TRACK
16'	7'	23"	3"	5 2 IN.

DESIGN LOAD +20.0 PSF & -20.0 PSF  
TEST LOAD +30.0 PSF & -30.0 PSF

GENERAL AMERICAN IRON COMPANY  
3120 BASSELIN ROAD  
MONTGOMERY, IL 60538

DATE: 10-10-78  
BY: J. J. VAN...  
CHECKED BY: A. J. VAN...  
SCALE: (A) 1/2" = 1'-0"  
PROJECT NO.: VI-2220-1

PAGE 1 OF 2



**2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT**

2x6 PRESSURE TREATED GRADE #2 OR BETTER SOUTHERN PINE WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (MU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

ALL WOOD JOINTS SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH THE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

ALL WOOD JOINTS SURROUNDING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SDCS STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTB '01, CURRENT EDITION.

ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

WOOD FRAME ANCHORS STUDS AT EACH SIDE OF WOOD JOINT SHALL BE PROPERLY BEZELLED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2x6 PRESSURE TREATED SOUTHERN PINE #2 GRADE OR BETTER WALL STUDS CONTINUOUS FROM FITTING TO DOUBLE TOP PLATE.

REINFORCED CONCRETE OR CONCRETE 2x6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (MU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2000 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3'-3/4"

LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TYPICAL 2x6 WALL STUDS.

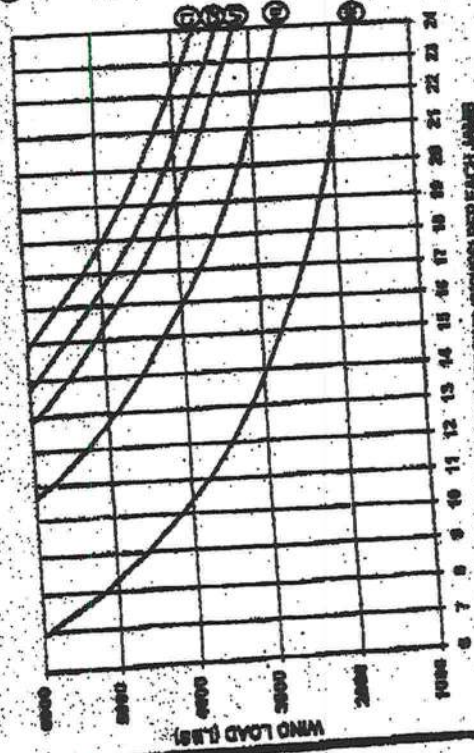
WASHERS ARE REQUIRED ON ALL FASTENERS.

THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 10' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS, AND AN ADDITIONAL 2x6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

- ① CONCRETE EMBEDMENT SHALL BE 4" FOR 1/2" DIA. LAG SCREWS, 1-1/2" FOR 3/4" DIA. LAG SCREWS, 1-3/4" FOR 1" DIA. LAG SCREWS
- ② CONCRETE EMBEDMENT SHALL BE 4" FOR 1/2" DIA. LAG SCREWS, 1-1/2" FOR 3/4" DIA. LAG SCREWS, 1-3/4" FOR 1" DIA. LAG SCREWS
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- ⑤ CONCRETE EMBEDMENT SHALL BE 4" FOR 1/2" DIA. LAG SCREWS, 1-1/2" FOR 3/4" DIA. LAG SCREWS, 1-3/4" FOR 1" DIA. LAG SCREWS
- ⑥ WOOD STUD EMBEDMENT SHALL BE 1-1/2" FOR 1/2" DIA. LAG SCREWS, 1-3/4" FOR 3/4" DIA. LAG SCREWS, 1-5/8" FOR 1" DIA. LAG SCREWS
- ⑦ WOOD STUD EMBEDMENT SHALL BE 1-1/2" FOR 1/2" DIA. LAG SCREWS, 1-3/4" FOR 3/4" DIA. LAG SCREWS, 1-5/8" FOR 1" DIA. LAG SCREWS

WIND LOAD VS ANCHOR SPACING



MAXIMUM ANCHOR SPACING (INCHES) PER EACH JAMB

DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)

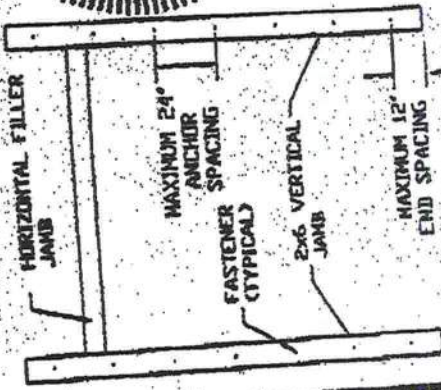
**EXAMPLE**

30 LBS. X 16 FT WIDE X 8 FT HIGH = 3840 LBS

① USE 22" SPACING    ② USE 16" SPACING

③ USE 21" SPACING    ④ USE 19" SPACING

SEE NOTE #1 FOR ADDITIONAL REQUIREMENTS FOR WOOD JAMB ANCHORS



PROFESSIONAL SEAL  
PE No. 024000  
MAGNER & KETNER  
ENGINEERS  
3/8/2004

**GENERAL AMERICAN DOOR COMPANY**

5050 BASSELLE ROAD  
MERTZGEMERY, IL 60538

DATE: 6-30-99  
REVISED BY: [Signature]  
DRAWN BY: [Signature]

FOR VENDOR TO STRUCTURE ATTACHMENT  
FOR WIND LOADED GARAGE DOORS

PROJECT NO: A10560

Manuel Perez, P.E. Product Control Examiner  
Product Control Division

*Manuel Perez*

- 1.1 This renews the Notice of Acceptance No. 00-0321.20 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.
- 2. PRODUCT DESCRIPTION
  - 2.1 The Series Entry 6-8 S-W/E Inswing Opaque Single Residential Insulated Steel Door with Sidelites - Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EV-1, Sheets 1 through 6 of 6, titled "Premdor (Entry Brand) Wood Edge Single Door in Wood Frames with a Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.
- 3. LIMITATIONS
  - 3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.
  - 3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.
- 4. INSTALLATION
  - 4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.
  - 4.2 Hurricane protection system (shutters):
    - 4.2.1 Door: the installation of this unit will not require a hurricane protection system.
    - 4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.
- 5. LABELING
  - 5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".
- 6. BUILDING PERMIT REQUIREMENTS
  - 6.1 Application for building permit shall be accompanied by copies of the following:
    - 6.1.1 This Notice of Acceptance
    - 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
    - 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

Premdor Entry Systems

Manuel Perez, P.E., Product Control Examiner  
Product Control Division

END OF THIS ACCEPTANCE

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not resubmit the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

Premdor Entry Systems

ACCEPTANCE No.: 01-031418

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

TAMKO Roofing Products, Inc.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

All testing was performed by Florida State certified independent labs.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

TO: OUR FLORIDA CUSTOMERS:

January 31, 2002

FEB - 4 2002

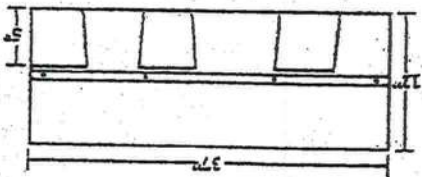


# Application Instructions For Heritage® 25 Series Shingles

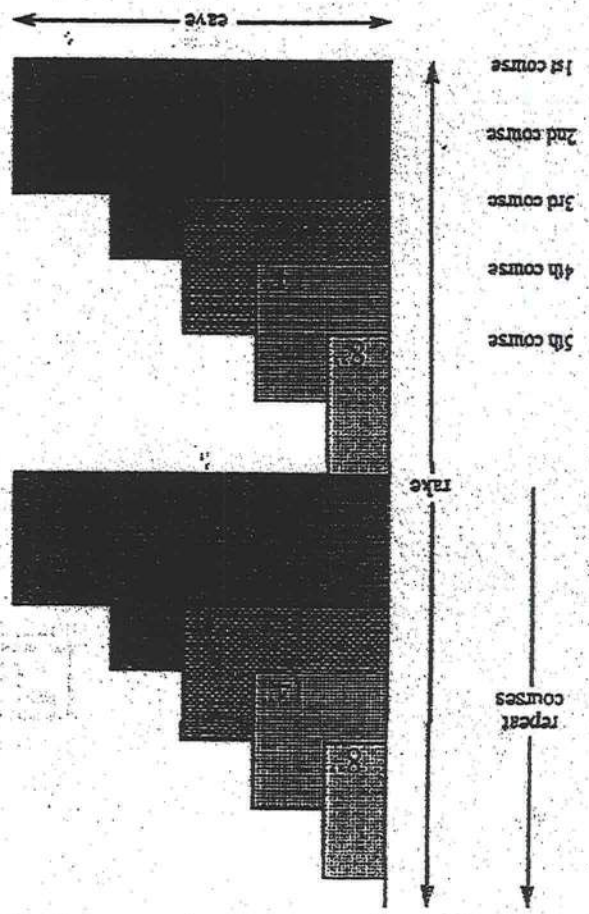
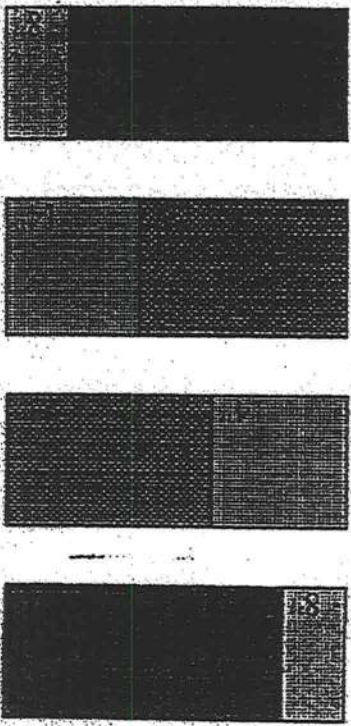


SPECIFICATIONS (APPROX.)

Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.  
 THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.  
 IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.  
 IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

**1. ROOF DECK**

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to pitches of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

**NEW ROOF DECK CONSTRUCTION:**

Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.  
 Plywood: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

**SHEATHING BOARDS:**

Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed. Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement
3. Rotting of wood members
4. Premature failure of roof.

**2. FASTENING**

TAMKO recommends the use of nails as the preferred method of application.  
**WIND CAUTION:** Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These areas should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

**FASTENING PATTERNS:**

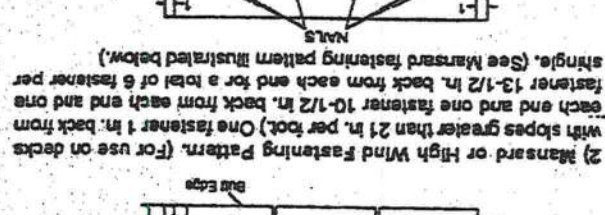
Fasteners must be placed above or below the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

**Standard Fastening Pattern:**

(For use on decks with slopes 2 in. per foot to 2 1/2 in. per foot.) One fastener 1 in. back from each end and one 1/2 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below.)

**Manard or High Wind Fastening Pattern:**

(For use on decks with slopes greater than 2 1/2 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fasteners per shingle. (See Manard fastening pattern illustrated below.)



**NAILS:**

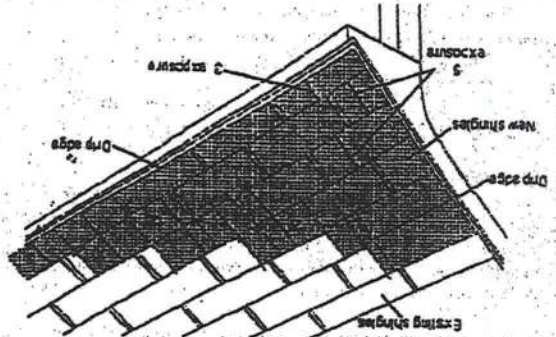
TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

Central District  
Northeast District  
Southwest District  
Western District

220 West 4th St., Joplin, MO 64801  
4500 Tamko Dr., Frederick, MD 21701  
2300 35th St., Tuscaloosa, AL 35401  
7910 S. Central Exp., Dallas, TX 75216  
5300 East 43rd Ave., Denver, CO 80216

800-641-4691  
800-368-2055  
800-228-2658  
800-443-1834  
800-530-8868



**First Courses:** Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

**Second and Succeeding Courses:** According to the off-set application method you choose to use, remove the appropriate length from the

**Starter Courses:** Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

**First Courses:** Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

**Second and Succeeding Courses:** According to the off-set application method you choose to use, remove the appropriate length from the

**3. REPAIRS**

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and re-lap in a new location. Remove all drip edge metal and replace with new.

If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

**3. VALLEY APPLICATION**

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50-lb roll roofing in the valley. Nail the roll only where necessary to hold it in place and then only nail the outside edges.

**IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.**

Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.

Do not trim if the shingle length exceeds 12 in. Lengths should vary.

Press the shingles tightly into the valley.

Use normal shingle fastening methods.

Note: No fasteners should be placed at the end of each shingle crossing the valley.

To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

Note: For a neat installation, snap a chalkline over the shingles for guidance.

Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

**CAUTION:** Adhesive must be applied in smooth, thin, even layers. Excessive use of adhesive will cause blistering to this product. TAMKO assumes no responsibility for blistering.

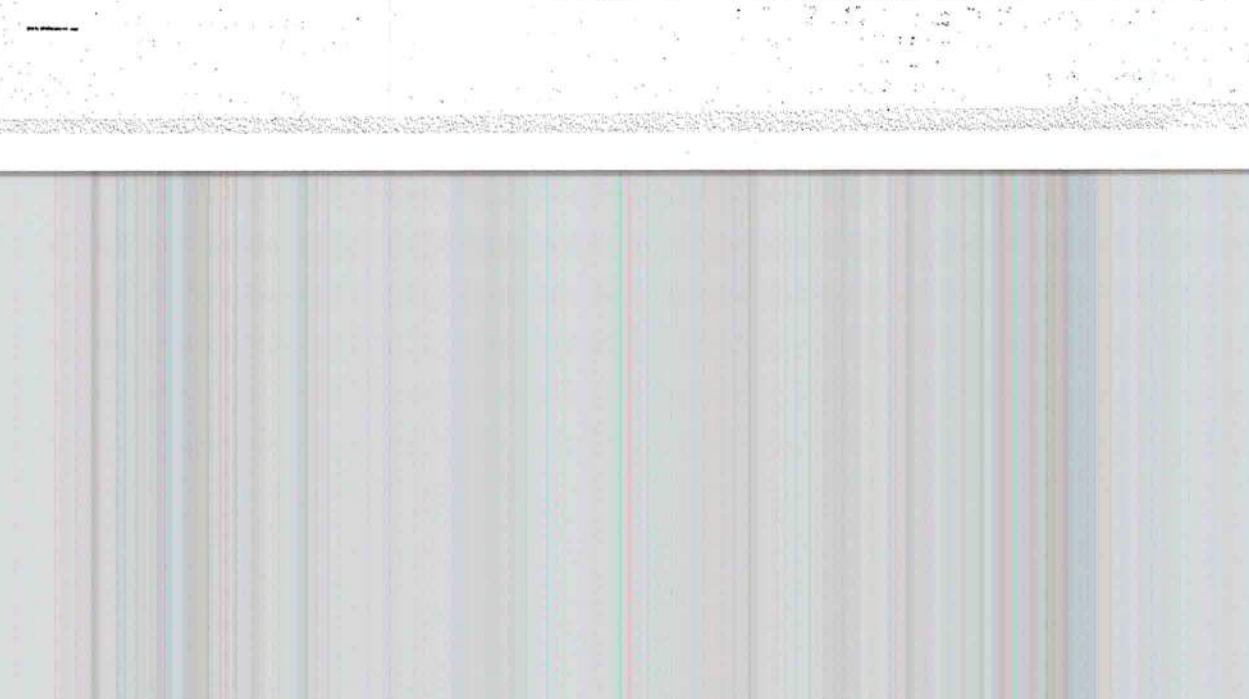
**TAMKO**

ROOFING PRODUCTS

- Glass-Seal
- Glass-Seal AR
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

(CONTINUED FROM PG. 2)



www.tamko.com

Visit Our Web Site at

Central District  
Northeast District  
Southeast District  
Southwest District  
Western District

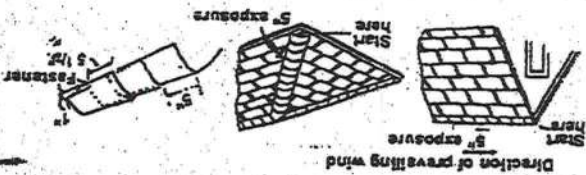
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5300 East 43rd Ave., Denver, CO 80216

800-641-4691  
800-368-2055  
800-228-2656  
800-443-1834  
800-530-8668

07/01

**IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE**  
In this paragraph "you" and "your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between you and TAMKO Roofing Products, Inc. (TAMKO). By opening this bundle you agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

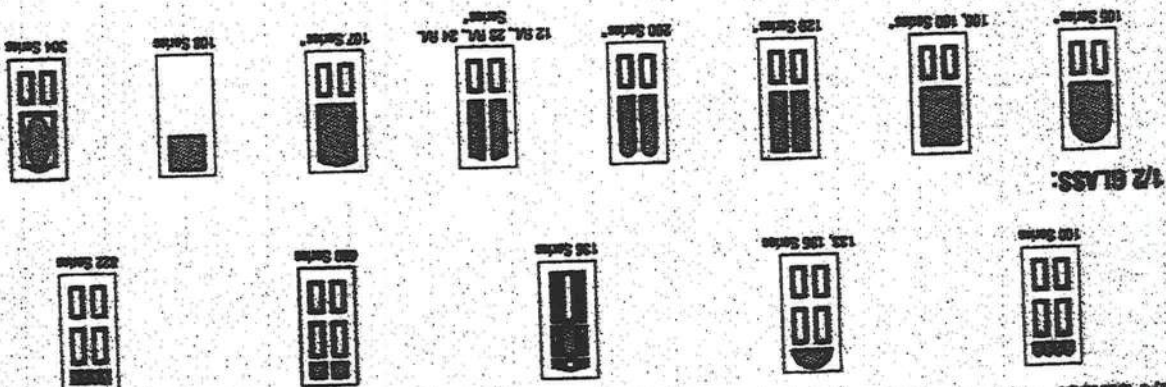


**IMPORTANT:** PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER. THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.  
**10. HIP AND RIDGE FASTENING DETAIL**  
Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.  
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO'S Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.  
**NOTE:** AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.  
Fasteners should be 1/4 in. longer than the one used for shingles.

**TAMKO**  
ROOFING PRODUCTS  
• Glass-Seal  
• Glass-Seal AR  
• Elite Glass-Seal  
• Elite Glass-Seal AR  
(CONTINUED from Pg. 3)  
**THREE-TAB ASPHALT SHINGLES**

\*This glass list may also be used in the following door styles: 5-panel; 6-panel with cross; System 5-panel; System 6-panel; System 5-panel with cross.



1/2 GLASS:

1/4 GLASS:

**APPROVED DOOR STYLES:**

**MINIMUM INSTALLATION DETAIL:**  
 Compliance requires that minimum installation details have been followed -- see MAD-WL-MA002-02

**MINIMUM ASSEMBLY DETAIL:**  
 Compliance requires that minimum assembly details have been followed -- see MAD-WL-MA001-02 and MAD-WL-MA004-02

Actual design pressure and impact resistance requirements for a specific building design and geographic location is determined by ASCE 7-section, and or local building codes specify the official requirement.

**Hurricane protective system (shutters) is REQUIRED.**

Large Glass Impact Resistance

Labels with various impact resistance design is used.

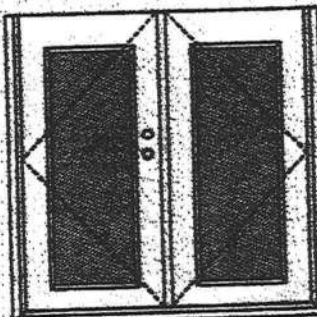
**+40.5/-40.5**

Design Pressure

Maximum unit size = 6' x 6'

Double Door

**Note:**  
 Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'6".



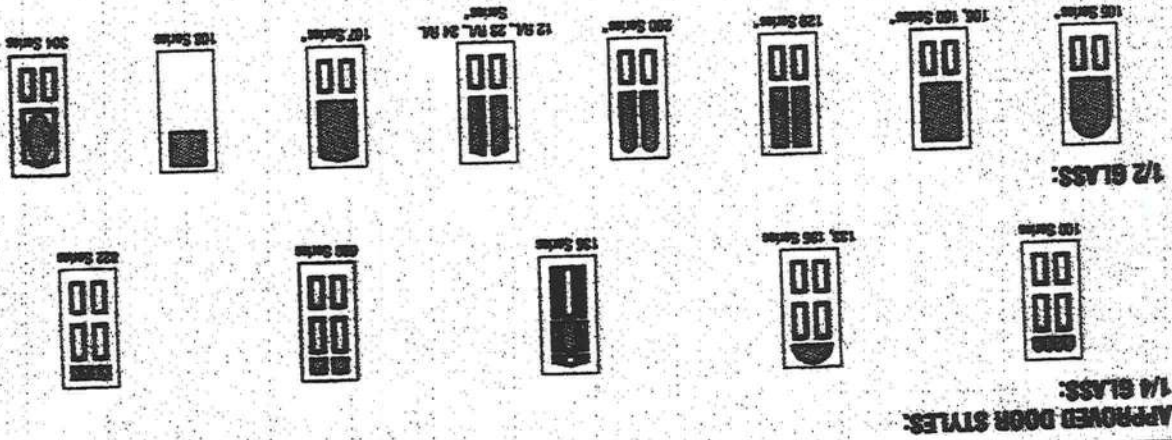
**APPROVED ARRANGEMENT:**

**WOOD-EDGE STEEL DOORS**

**XX**  
 Glazed Outswing Unit

009 WL-041762-02

This glass list may also be used in the following door styles: 5-panel; 6-panel; 6-panel with accent; 6-panel; 6-panel; 6-panel; 6-panel with accent.



**APPROVED DOOR STYLES:**

**MINIMUM INSTALLATION DETAIL:**  
 Compliance requires that minimum installation details have been followed – see MID-WL-MA002-02.

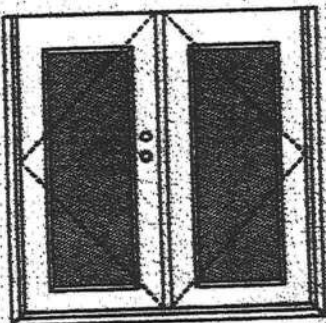
**MINIMUM ASSEMBLY DETAIL:**  
 Compliance requires that minimum assembly details have been followed – see MAD-WL-MA012-02 and MAD-WL-MA004-02.

Actual design patterns and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-10 (wind), state or local building codes specify the edition required.

**Hurricane protective system (shutters) is REQUIRED.**

**Large Glass Impact Resistance**  
 Limited water under special forward design is used.  
**+40.5/-40.5**  
**Design Pressure**  
 Maximum unit size - 6' x 6'

**Notes:**  
 Units of other sizes are covered by this report as long as the panels used do not exceed 3' x 6'.

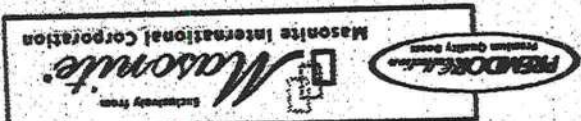


**APPROVED ARRANGEMENT:**

**WOOD-EDGE STEEL DOORS**

**XX**  
 Glazed Outswing Unit

00P WL-04162-02



March 29, 2002  
 Our continuing program of product improvement, better quality doors, design and product cost savings is always evident.

**Johnson**  
 Entry Systems

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

*Kurt Balthazor*

State of Florida, Professional Engineer  
 Kurt Balthazor, P.E. - License Number 56533

TESTED IN  
 ACCORDANCE WITH  
 MIAMI-DADE BCCO PA202  
 COMPANY NAME  
 CITY, STATE

**PRODUCT COMPLIANCE LABELING:**

Frame constructed of wood with an extruded aluminum bumper threshold. Cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip the surround.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both sides constructed from wood. Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior

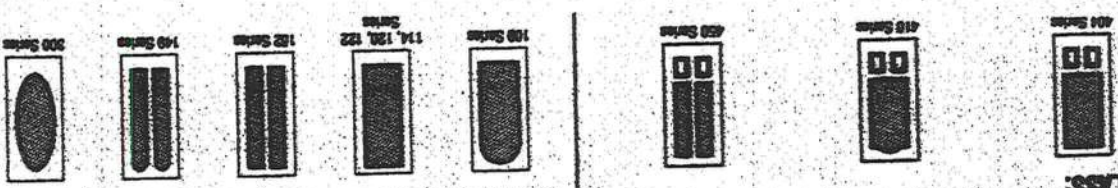
Evaluation report NCTL-210-2794-1

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

NCTL 210-1897-7, 8, 9, 10, 11, 12, NCTL 210-1884-5, 6, 7, 8, NCTL 210-2178-1, 2, 3

**CERTIFIED TEST REPORTS:**



**APPROVED DOOR STYLES:**  
 3/4 GLASS:

**FULL GLASS:**

**WOOD-EDGE STEEL DOORS**

**XX**  
 Glazed Outswing Unit

00P-WL-3H4162-02



**JOHNSON**  
**EncySystems**  
 March 28, 2002  
 Our continuing program of product improvement makes specifications, designs and product  
 and subject to design without notice.

To the best of my knowledge and ability the above side-hinged  
 exterior door unit conforms to the requirements of the 2001 Florida  
 Building Code, Chapter 17 (Structural Tests and Inspections).

*Kurt A. Balazox*

State of Florida, Professional Engineer  
 Kurt Balazox, P.E. - License Number 55533

TESTED IN  
 ACCORDANCE WITH  
 MIAMI-DADE BCCO PA202  
 COMPANY NAME  
 CITY, STATE

**PRODUCT COMPLIANCE LABELING:**

Frame constructed of wood with an extruded aluminum bumper threshold.  
 cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid  
 plastic lip the surround.  
 Door panels constructed from 26-gauge 0.017" thick steel skins. Both sides constructed from wood.  
 Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior  
 Evaluation report NCTL-210-2794-1  
 Unit Tested in Accordance with Miami-Dade BCCO PA202.  
 Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.  
 NCTL 210-1897-7, 8, 9, 10, 11, 12, NCTL 210-1864-5, 6, 7, 8, NCTL 210-2178-1, 2, 3

**CERTIFIED TEST REPORTS:**



**APPROVED DOOR STYLES:**  
 3/4 GLASS:

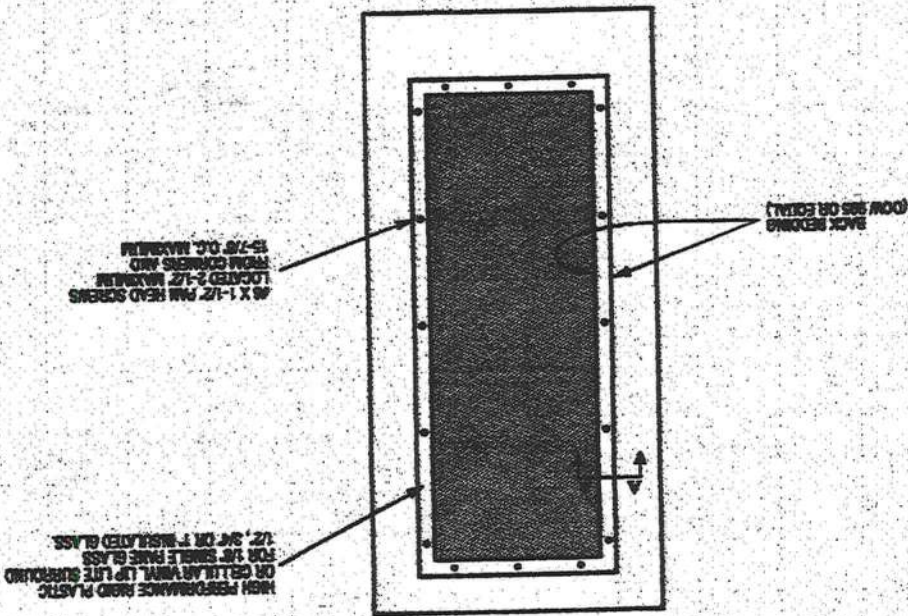
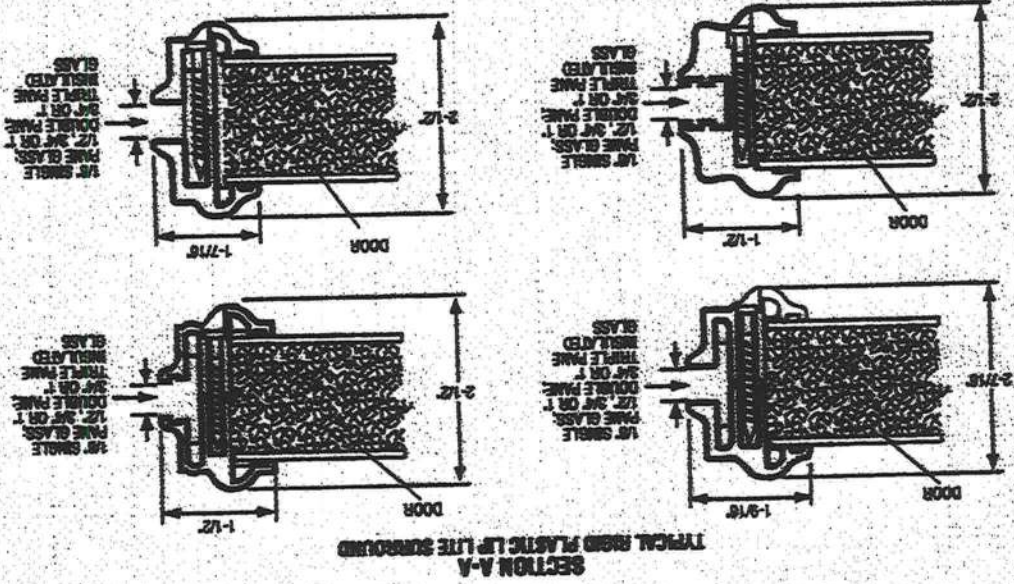
**FULL GLASS:**

**WOOD-EDGE STEEL DOORS**

Glazed Outswing Unit

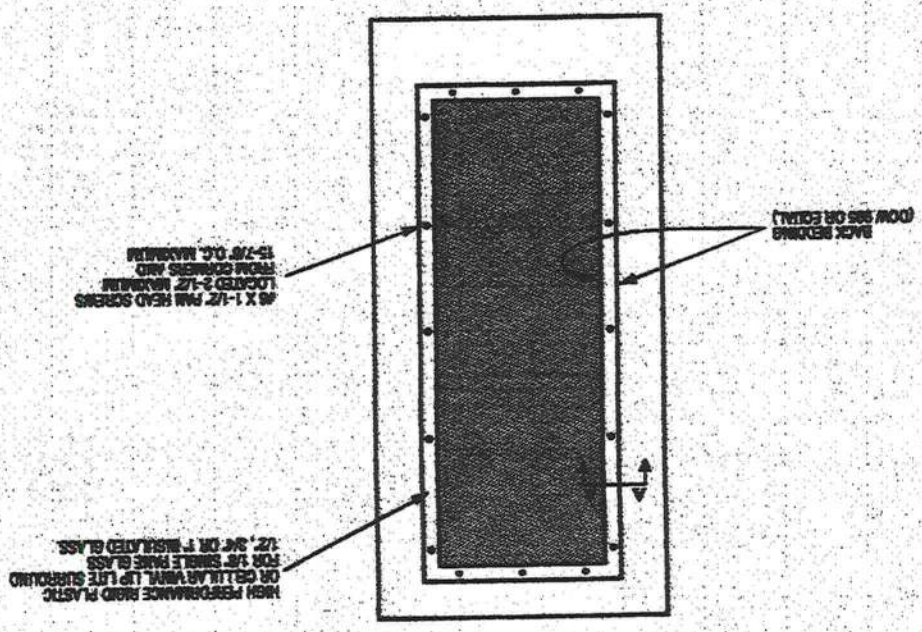
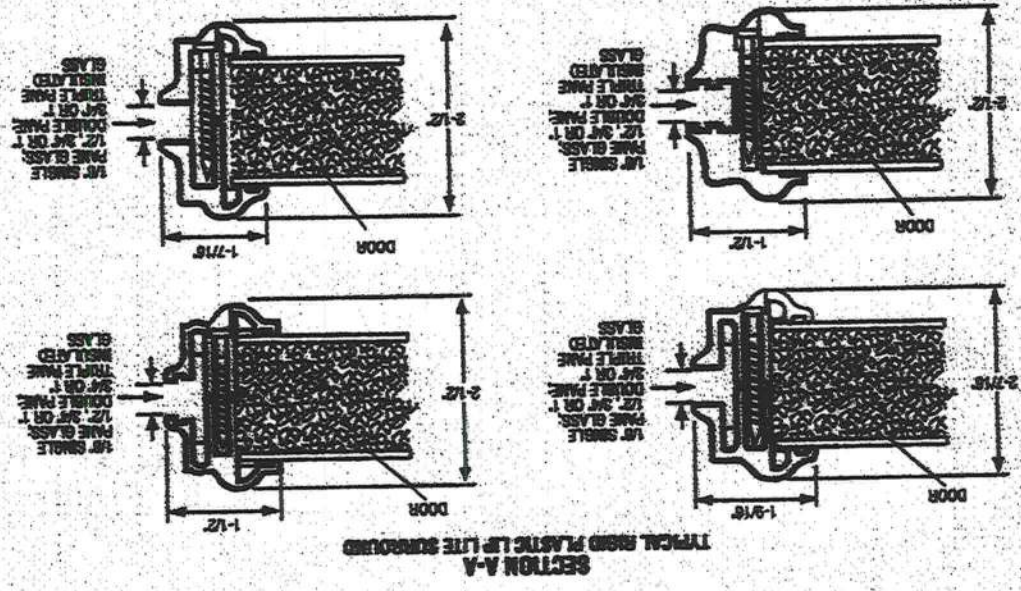
**XX**

300 Series



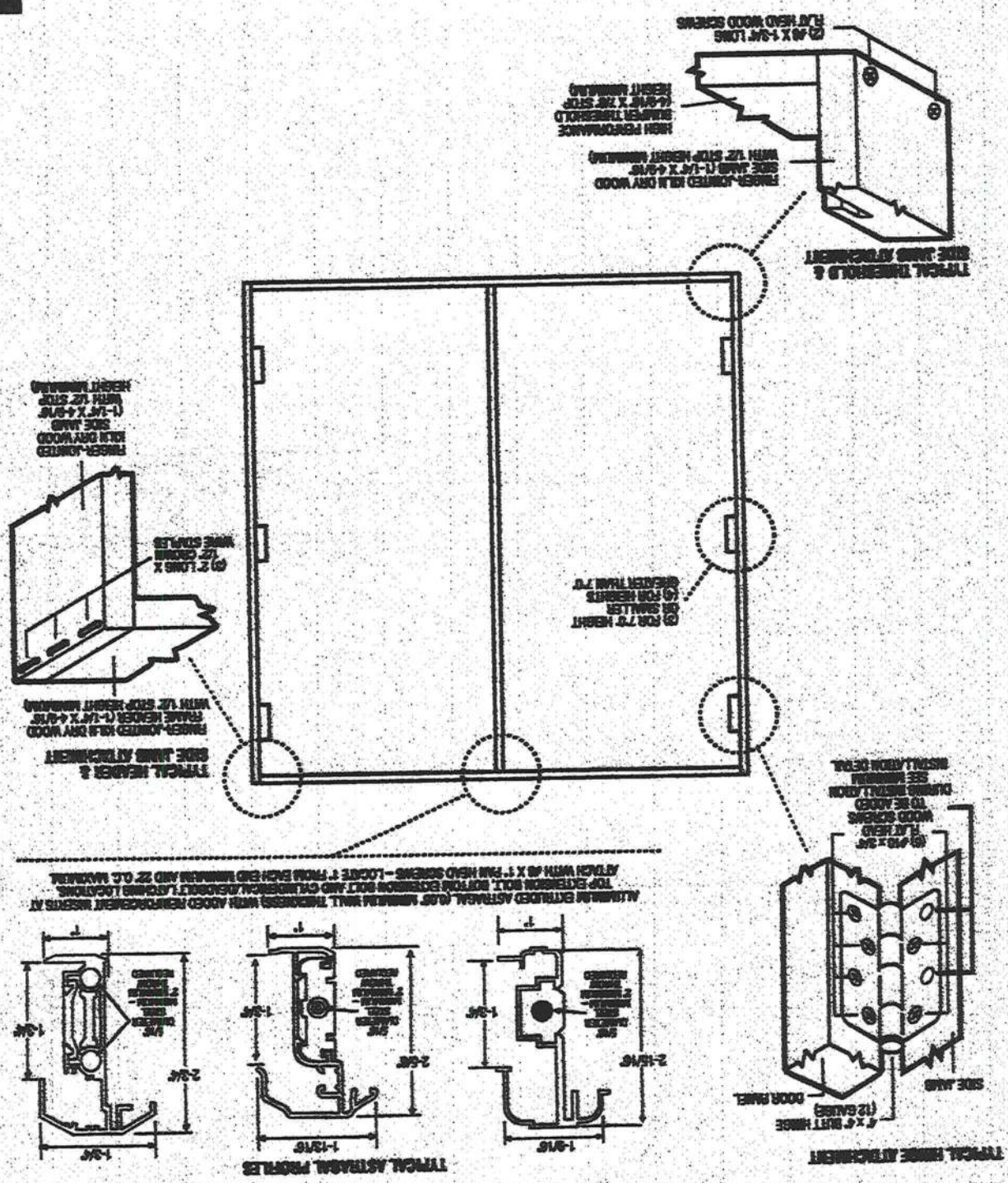
**GLASS INSERT IN DOOR**  
**OR SIDELITE PANEL**

MAAD-WL-MA0041-02



**GLASS INSERT IN DOOR OR SIDELITE PANEL**  
 MAD-WL-100041 02





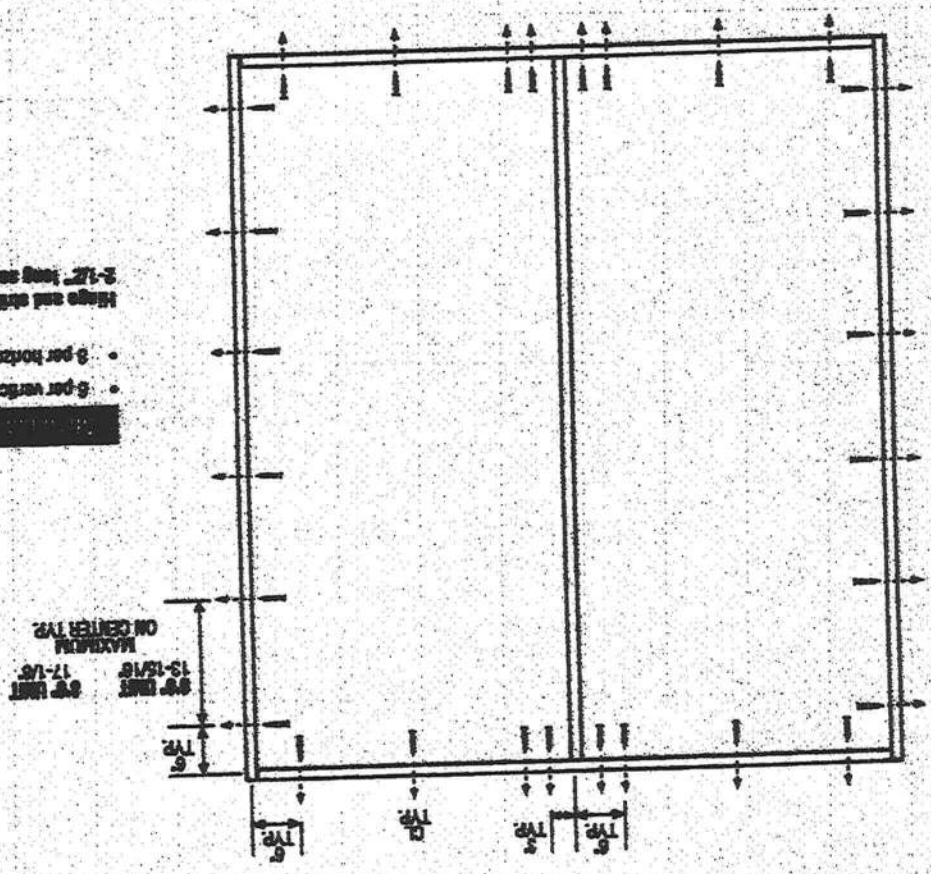
**OUTSWING UNITS WITH DOUBLE DOOR**  
 MAD 01-18A012-02

Unit  
**XX**

- Notes:**
1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
  2. The wood screw shear design values come from Table 11.3A of ANS/A-4 PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and EICO Dade County approvals respectively, each with minimum 1-1/4" embedment.
  3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

**Latching Hardware:**  
 • Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

- 6 per vertical framing member
- 8 per horizontal framing member
- Hinge and strike plates require two 2-1/2" long screws per handle.



**DOUBLE DOOR**

MID-VL-MA002-02

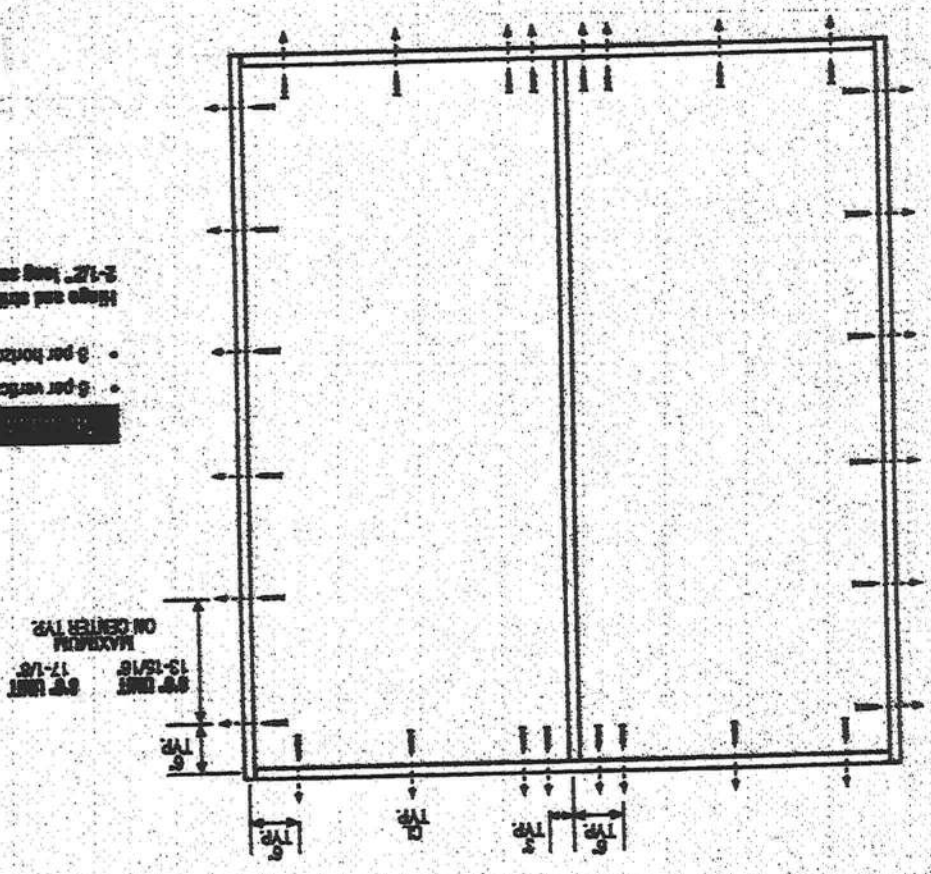
**XX**  
 Unit

- Notes:**
1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
  2. The wood screw single shear design values come from Table 11.3A of ANS/NFPA 70A for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the TRW and EDCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
  3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

**Latching Hardware:**

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

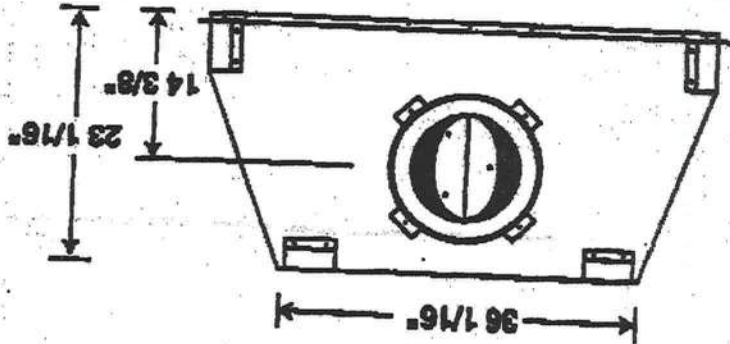
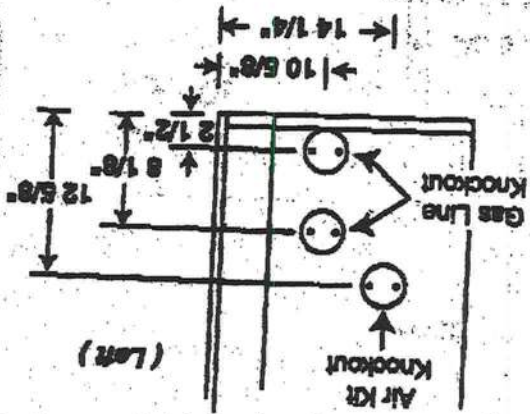
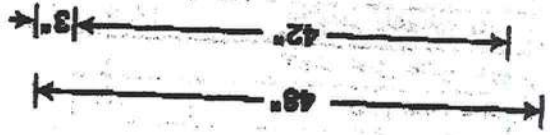
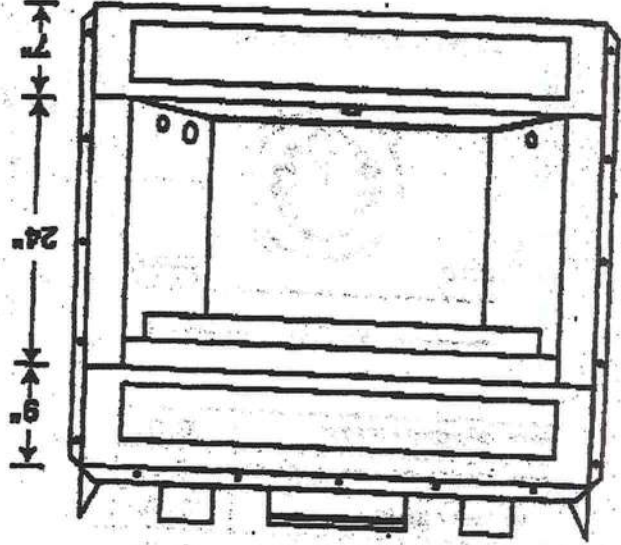
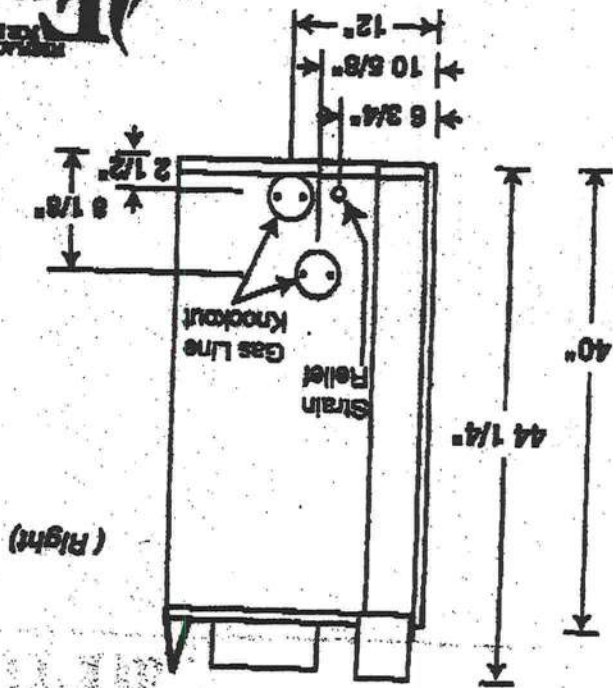
- 5 per vertical framing member
- 3 per horizontal framing member
- Hinge and extra plates require two 2-1/2" long screws per location.



**DOUBLE DOOR**

MID-WEST-MA0002-02

**XX**  
 Unit



10"	Vent Pipe Size
1"	Min. Pipe Clearance
14' 6"	Min. System Height
14' 6"	- w/ Single Offset
22' 0"	- w/ Two Offsets
6' 0"	Max. Dist. Between Elbows
50' 0"	Max. System Height

42" Woodburning Fireplace

Craftsman



- Floor Plan including:**
- a) Rooms labeled and dimensioned
  - b) Shear walls
  - c) Windows and doors (including garage doors) showing size, mfg, approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
  - d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
  - e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
  - f) Must show and identify accessibility requirements (accessible bathroom)
- Foundation Plan including:**
- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
  - b) All posts and/or column footings including size and reinforcing
  - c) Any special support required by soil analysis such as piling
  - d) Location of any vertical steel
- Roof System:**
- a) Truss package including:
  - 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
  - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
- 1. Rafter size, species and spacing
  - 2. Attachment to wall and uplift
  - 3. Ridge beam sized and valley framing and support details
  - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- Wall Sections including:**
- a) Masonry wall
  - 1. All materials making up wall
  - 2. Block size and mortar type with size and spacing of reinforcement
  - 3. Lintel, tie-beam sizes and reinforcement
  - 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
  - 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
  - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
  - 7. Fire resistant construction (if required)
  - 8. Fireproofing requirements
  - 9. Shoe type of termite treatment (alternative method)
  - 10. Slab on grade
  - a. Vapor retarder (5mil. Polyethylene with joints lapped 6 inches and sealed)
  - b. Must show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:
- a. Attic space
  - b. Exterior wall cavity
  - c. Crawl space (if applicable)

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Shawn Anderson



Sincerely,

The 'Truss Repair' on A10 and H19A of Lot 102 Callaway Subdivision will work for the application of this truss.

TO WHOM IT MAY CONCERN:

RE: Isaac Construction, Lot 102 Callaway Subdivision

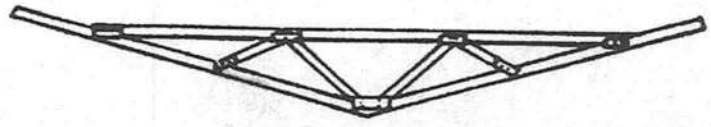
Columbia County Building & Permitting Dept.

March 23, 2006

1730 NW Oakland Ave  
Lake City, FL 32055

**Anderson Truss Company**  
George Anderson Owner  
Quality Pre-Engineered Wood Trusses

Bus (386) 752-3103  
Fax (386) 961-8290



# 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: ISQ487-20323160119

Truss Fabricator: Anderson Truss Company  
 Job Identification: 5-406-ISAAC CONSTRUCTION / CALLAWAY LOT 102

Truss Count: 57  
 Florida Building Code  
 Truss Criteria: ANSI/TPI-1995 (STD) / FBC  
 Engineering Software: Alpine Software, Version 7.04.  
 Structural Engineer of Record:

Address:  
 Minimum Design Loads:

Roof - 40.0 PSF @ 1.25 Duration  
 Floor - N/A  
 Wind - 110 MPH ASCE 7-98 - Closed

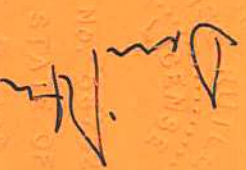
### Notes:

- 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
- The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
- As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: BRCLBSUB-CNBRGLK-A11015EC-GBLLETIN

#	Ref	Description	Drawing#	Date
1	16229--H21A		05266075	09/23/05
2	16230--A2		05266076	09/23/05
3	16231--A10		05266077	09/23/05
4	16232--H15A		05266078	09/23/05
5	16233--H17A		05266079	09/23/05
6	16234--H19A		05266080	09/23/05
7	16235--A9		05266081	09/23/05
8	16236--A8		05266082	09/23/05
9	16237--A7		05266083	09/23/05
10	16238--A5		05266084	09/23/05
11	16239--A4		05266085	09/23/05
12	16240--HM7A		05266086	09/23/05
13	16241--HM9A		05266087	09/23/05
14	16242--HM11A		05266088	09/23/05
15	16243--HM13A		05266089	09/23/05
16	16244--H15B		05266090	09/23/05
17	16245--B3		05266091	09/23/05
18	16246--B4		05266092	09/23/05
19	16247--H17B		05266093	09/23/05
20	16248--B		05266094	09/23/05
21	16249--B1		05266095	09/23/05
22	16250--B2		05266096	09/23/05
23	16251--H9B		05266097	09/23/05
24	16252--H11B		05266098	09/23/05
25	16253--H13B		05266099	09/23/05
26	16254--H7B		05266100	09/23/05
27	16255--C-1		05266101	09/23/05
28	16256--C2		05266102	09/23/05
29	16257--C		05266103	09/23/05
30	16258--H7C		05266104	09/23/05
31	16259--D-1		05266105	09/23/05
32	16260--H3D		05266106	09/23/05
33	16261--D		05266107	09/23/05
34	16262--E-1		05266108	09/23/05
35	16263--H5E		05266109	09/23/05
36	16264--F		05266110	09/23/05

#	Ref	Description	Drawing#	Date
37	16265--FGE		05266106	09/23/05
38	16266--F-1		05266073	09/23/05
39	16267--CJ1		05266124	09/23/05
40	16268--HJ7		05266107	09/23/05
41	16269--HJ5		05266108	09/23/05
42	16270--CJ3		05266074	09/23/05
43	16271--CJ5		05266109	09/23/05
44	16272--EJ3		05266110	09/23/05
45	16273--HJ3		05266111	09/23/05
46	16274--EJ7V		05266112	09/23/05
47	16275--EJ7		05266113	09/23/05
48	16276--HJ7T		05266114	09/23/05
49	16277--C5		05266115	09/23/05
50	16278--EJ7T		05266116	09/23/05
51	16279--H21AP		05266117	09/23/05
52	16280--A9P		05266118	09/23/05
53	16281--A7P		05266125	09/23/05
54	16282--A3		05266119	09/23/05
55	16283--AP		05266120	09/23/05
56	16284--BP		05266121	09/23/05
57	16285--A8P		05266122	09/23/05



Seal Date: 09/23/2005

-Truss Design Engineer-

Denise Rutledge

Florida License Number: 58752

1950 Marley Drive

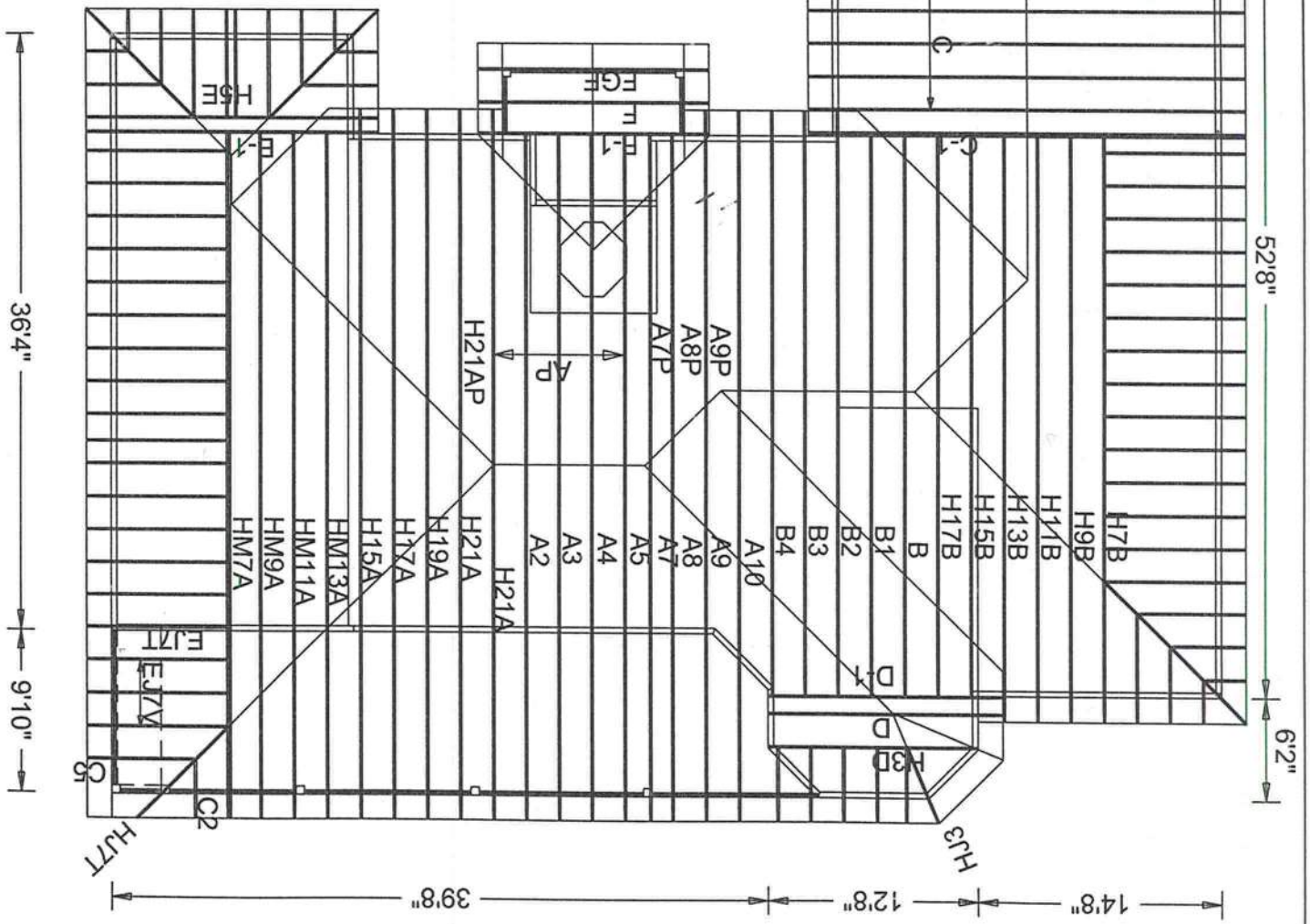
Haines City, FL 33844

Scale: 3/32" = 1'

# ISAAC CONSTRUCTION / CALLAWAY LOT 102

Root Plane Sheathing Area = 4328 sq. ft  
 Gable Sheathing Area = 24 sq. ft  
 Total Sheathing Area = 4352 sq. ft  
 Fascia Material = 304 linear ft  
 Valley Flashing Material = 135 linear ft  
 Ridge Cap Material = 57 linear ft  
 Hip Ridge Material = 202 linear ft

9'    11'    9'    14'8"

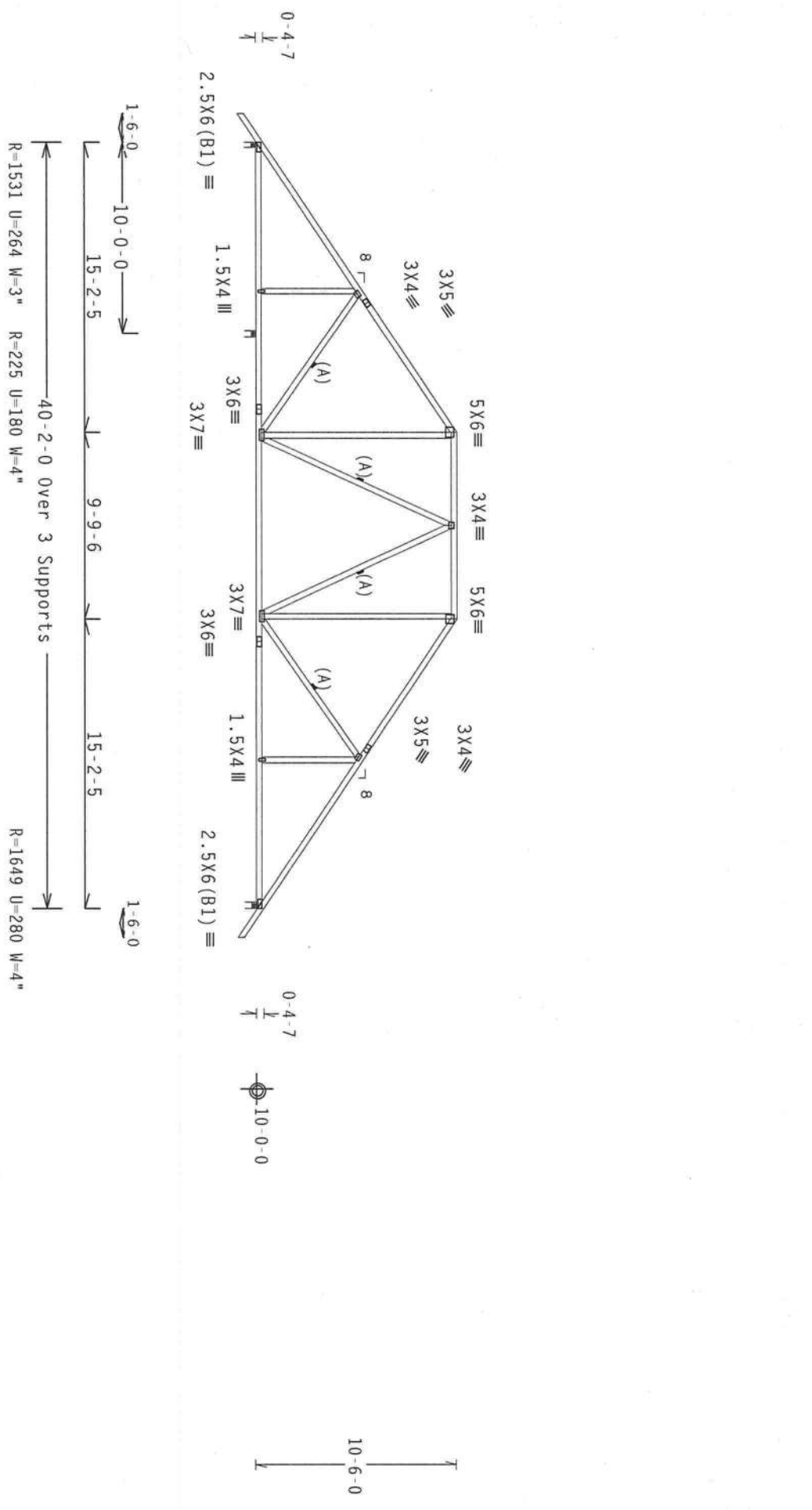


5-406-ISAAC CONSTRUCTION / CALLAWAY LOT 102 - H21A)  
 op chord 2x4 SP #2 Dense  
 bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 14.94 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 6.50 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.

Deflection meets L/360 live and L/240 total load.



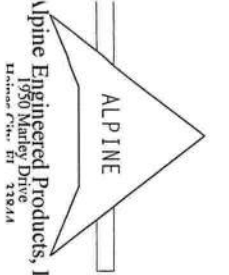
LT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.080

QTY: 2 FL/-/3/-/R/-

Scale = .125"/ft.



**Alpine Engineered Products, Inc.**  
 1950 Marley Drive  
 Harrison, CT, Et 07884

**\*\*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, 563 D'ONOFIO DR., SUITE 200, HANOTSON, NJ 07419) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, HANOTSON, NJ 07419) 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 COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, CONNECTION PER DRAWING NOTES. CONNECTIONS TO BE MADE IN ACCORDANCE WITH THE DESIGN AND CONNECTION PER DRAWING NOTES. 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



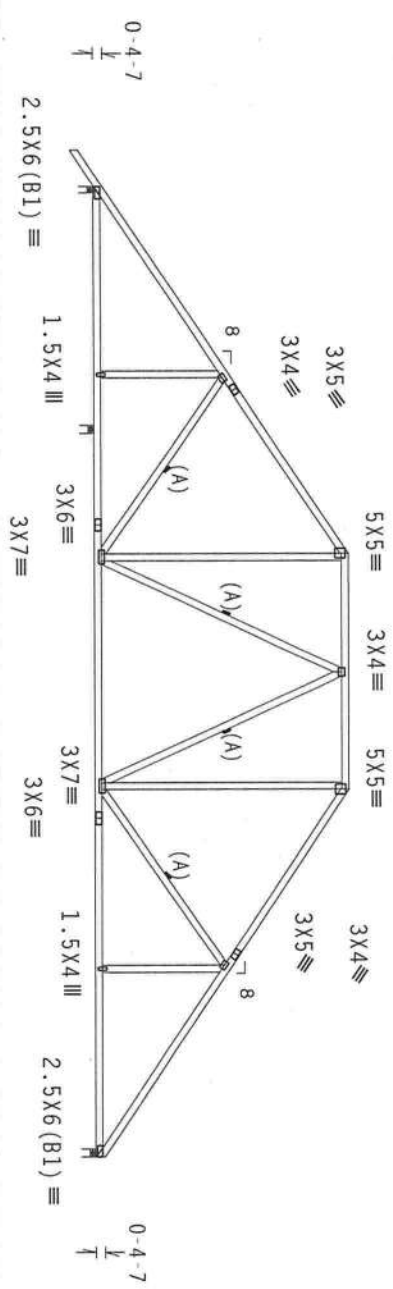
TC LL	20.0 PSF	REF R487 - 16229
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266075
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEQN- 12413
DUR. FAC.	1.25	

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

110 mph wind, 14.94 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 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.

Deflection meets L/360 live and L/240 total load.



1-6-0  
 10-0-0  
 15-2-5  
 40-2-0 Over 3 Supports  
 9-9-6  
 15-2-5  
 R=1534 U=264 W=3" R=225 U=180 W=4"  
 R=1551 U=254 W=4"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

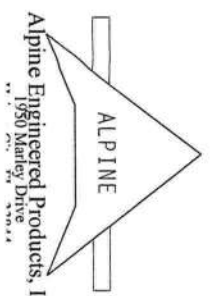
QTY: 1

FL/-/3/-/R/-

Scale = .125"/ft.

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BOULDER COUNTY DESIGN MANUAL 53719) AND WFLA (WIND TRUSS CONNECTIONS) 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/IBR) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/T664 (M/M/S) ASTM A653 GRADE 40/60 (Q, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1600-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002, SECS. 3.0 FOR THE TRUSS COMPONENTS AND (2) SHALL BE PERFORMED AS OF TPI-2002, SECS. 3.0 FOR THE TRUSS COMPONENTS. ACCEPTANCE OF THE TRUSS COMPONENTS SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.

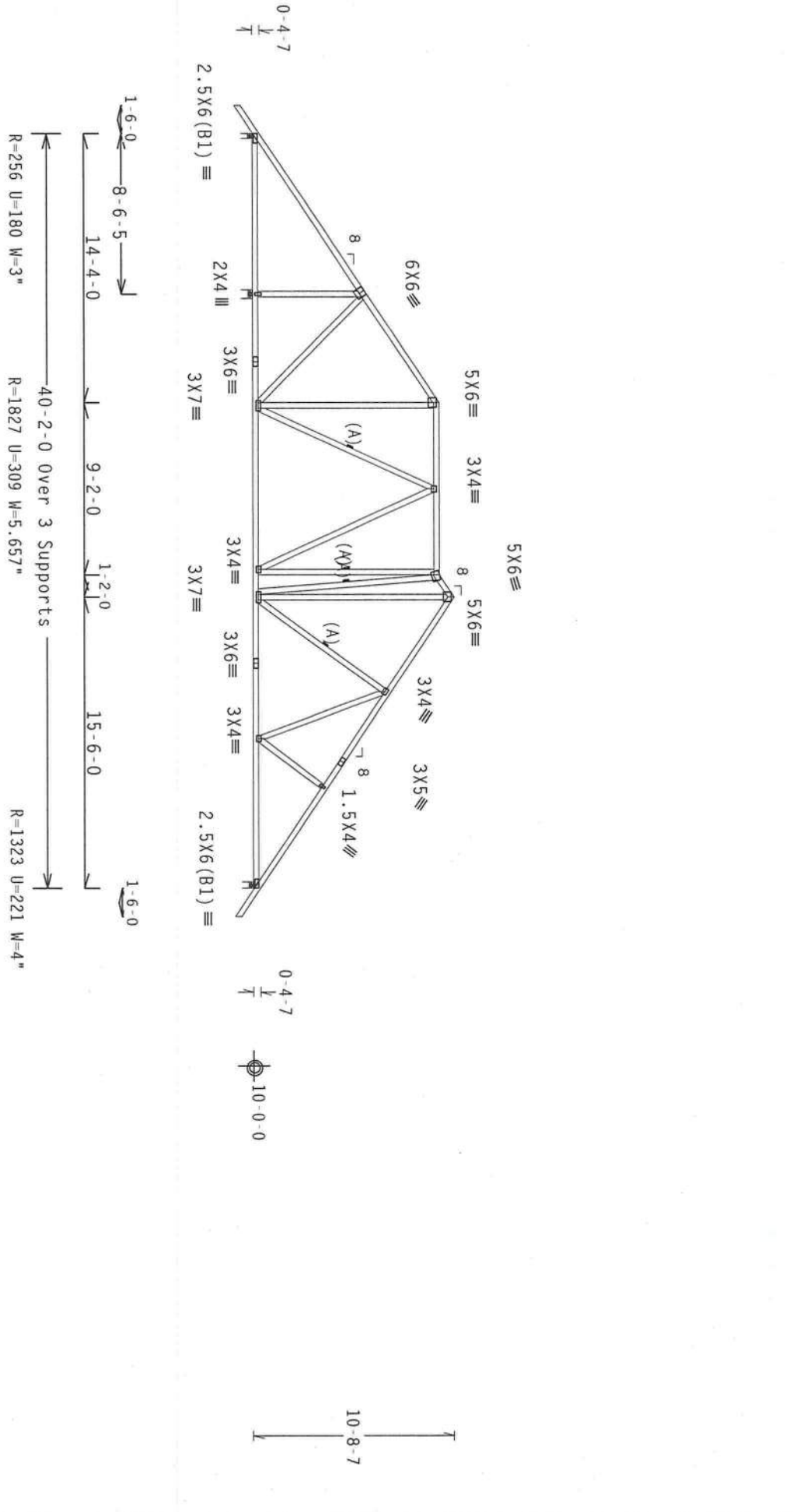


Alpine Engineered Products, Inc.  
 1950 Marley Drive

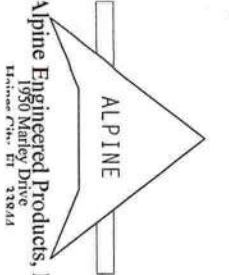


TC LL	20.0 PSF	REF R487 - 16230
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266076
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEON- 12423
DUR. FAC.	1.25	

(A) Continuous lateral bracing equally spaced on member.



LT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0805 QTY: 1 FL/-/3/-/1-/R/- Scale = .125"/ft.



**ALPINE Engineered Products, Inc.**  
 1950 Marley Drive  
 Houston, Texas, Et 77064

**\*\*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, 689 D'ONOFREO 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 IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASI) AND TPI. ALPINE TRUSSES ARE MADE OF 20X18/18GA (20X18/18GA) ASTM A663 GRADE 40/60 (K1/MS1) GALV. STEEL. APPLY CONNECTOR PLATES TO EACH OF THE TRUSS JOINTS. TRUSSES SHALL BE ASSEMBLED FROM PER A SEAL ON THIS PLATE TO EACH OF THE JOINTS AND BY THESE MEANS SHALL BE ASSEMBLED IN ACCORDANCE WITH SECTION 1.2.1 OF THE WCA/ASCE 101-2002 SPEC. THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE USER.



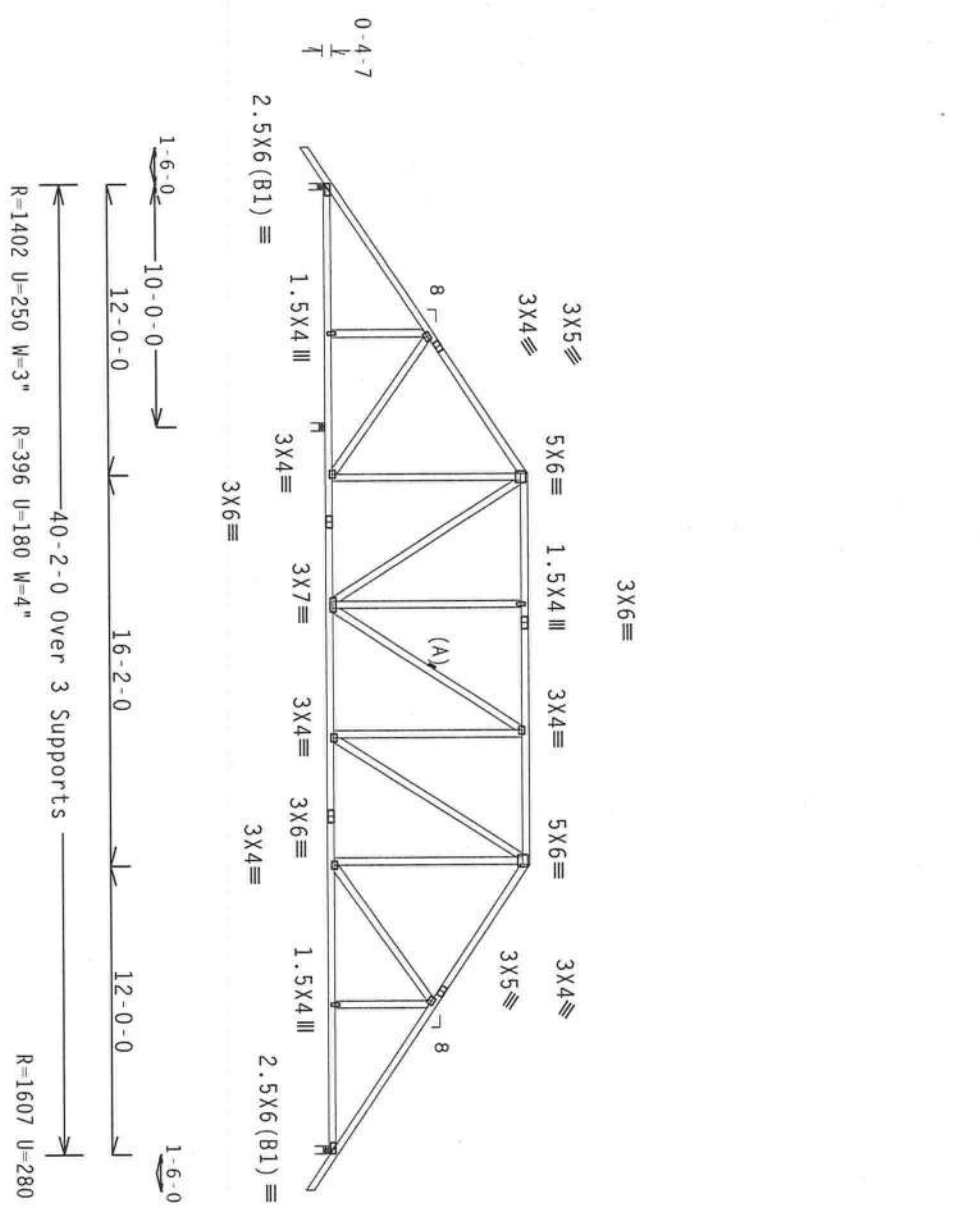
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BC DL	10.0 PSF	DRW HCUSR487 05266077
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEON- 6025
DUR. FAC.	1.25	

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

110 mph wind, 13.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 6.50 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.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI

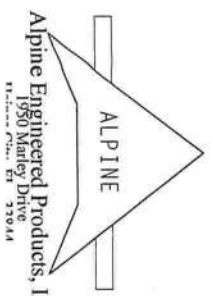
Design Crit: TPI-1995 (STD)/FBC

7.04.0805

QTY: 1

FL/-/3/-/R/-

Scale = .125"/ft.



**ALPINE Engineered Products, Inc.**  
 1950 Marley Drive  
 Ft. Worth, TX 76104

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 8300 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.

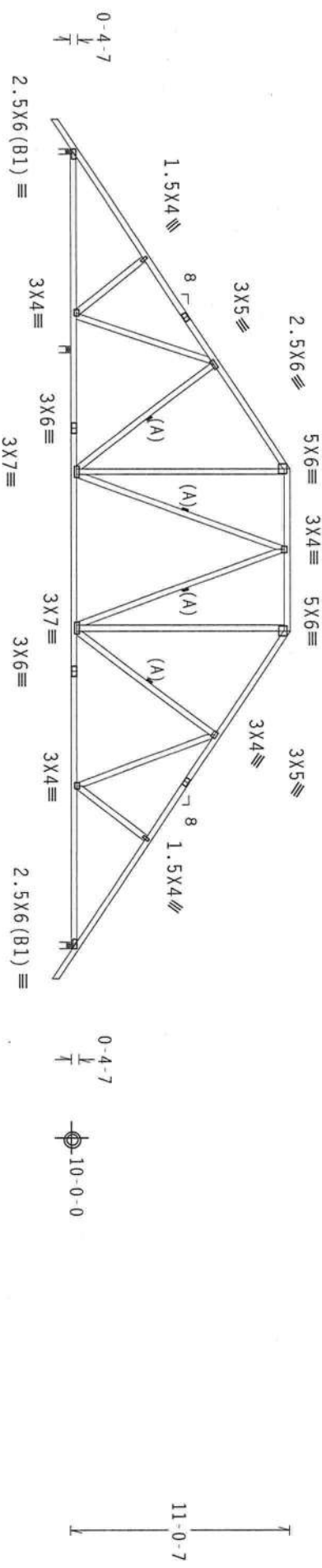
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD AND STEEL), ALPINE CONNECTION TABLE FOR TRUSS CHORDS (W/MS), ASYNCHRONOUS CONNECTIONS (W/MS), ALPINE TRUSS PLATE CONNECTIONS (W/MS) AND TRUSS CHORDS (W/MS). THIS DESIGN IS A PROFESSIONAL ENGINEERING DESIGN PER DRAWINGS 1004-2, 1004-3, 1004-4, 1004-5, 1004-6, 1004-7, 1004-8, 1004-9, 1004-10, 1004-11, 1004-12, 1004-13, 1004-14, 1004-15, 1004-16, 1004-17, 1004-18, 1004-19, 1004-20, 1004-21, 1004-22, 1004-23, 1004-24, 1004-25, 1004-26, 1004-27, 1004-28, 1004-29, 1004-30, 1004-31, 1004-32, 1004-33, 1004-34, 1004-35, 1004-36, 1004-37, 1004-38, 1004-39, 1004-40, 1004-41, 1004-42, 1004-43, 1004-44, 1004-45, 1004-46, 1004-47, 1004-48, 1004-49, 1004-50, 1004-51, 1004-52, 1004-53, 1004-54, 1004-55, 1004-56, 1004-57, 1004-58, 1004-59, 1004-60, 1004-61, 1004-62, 1004-63, 1004-64, 1004-65, 1004-66, 1004-67, 1004-68, 1004-69, 1004-70, 1004-71, 1004-72, 1004-73, 1004-74, 1004-75, 1004-76, 1004-77, 1004-78, 1004-79, 1004-80, 1004-81, 1004-82, 1004-83, 1004-84, 1004-85, 1004-86, 1004-87, 1004-88, 1004-89, 1004-90, 1004-91, 1004-92, 1004-93, 1004-94, 1004-95, 1004-96, 1004-97, 1004-98, 1004-99, 1004-100.



TC LL	20.0 PSF	REF R487--	16232
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266078
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT. LD.	40.0 PSF	SEQN-	12374
DUR. FAC.	1.25		
CDATING	94 0"		



A) Continuous lateral bracing equally spaced on member.  
 Deflection meets L/360 live and L/240 total load.



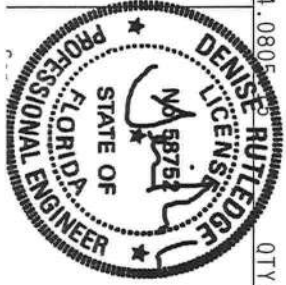
1-6-0  
 10-0-0  
 16-0-0  
 8-2-0  
 16-0-0  
 1-6-0  
 40-2-0 Over 3 Supports  
 R=1478 U=254 W=3" R=295 U=180 W=4"  
 R=1632 U=276 W=4"

LT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.080E QTY: 1 FL/-/3/-/-/R/- Scale = .125"/ft.

**\*\*WARNINGS\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BEST 1-03 (INCLUDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 663 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 & BRACING OF TRUSSES, CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. APPLY TO THE TRUSS CHORDS AND DIAGONALS. THE PRACTICE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS CONTRACTORS DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.



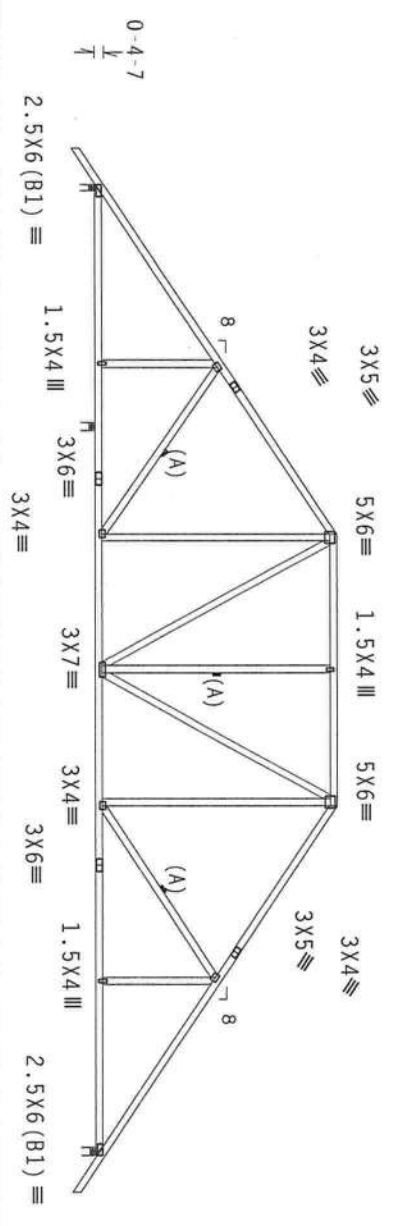
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TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266080
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 12390
DUR.FAC.	1.25	

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

110 mph wind, 14.69 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 6.50 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.

Deflection meets L/360 live and L/240 total load.



1-6-0  
 10-0-0  
 14-5-5  
 11-3-6  
 14-5-5  
 1-6-0  
 40-2-0 Over 3 Supports  
 R=1516 U=268 W=3" R=245 U=180 W=4"  
 R=1644 U=283 W=4"

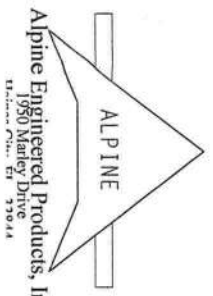
PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

QTY: 1

FL/-/3/-/R/-

Scale = .125" / Ft.



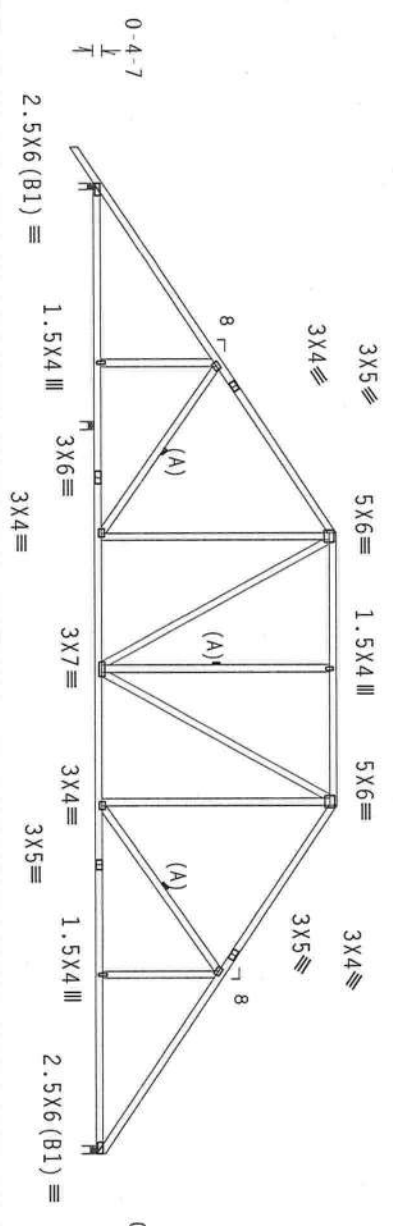
**ALPINE Engineered Products, Inc.**  
 1950 Marley Drive  
 Dallas, TX 75044

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS CONSTRUCTION. THIS TRUSS IS DESIGNED AND ENGINEERED BY ALPINE ENGINEERING, INC. FOR THE SPECIFIC APPLICATION AND CONDITIONS LISTED HEREON. THE USER OF THIS TRUSS SHALL BE RESPONSIBLE FOR VERIFYING THE TRUSS IS SUITABLE FOR THE INTENDED APPLICATION AND CONDITIONS. THE USER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

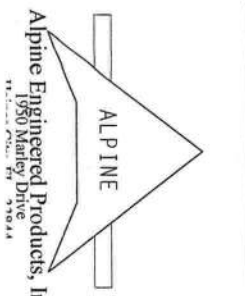
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE TRUSSES ARE MADE OF 20/18/16GA (G.M./S/G) ASTM A656 GRADE 40/50 (K.M./S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 1605-2. ANY INSPECTION OF PLATES AND CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE USER. THE TRUSS COMPONENTS ARE NOT TO BE USED FOR ANY OTHER APPLICATIONS WITHOUT THE WRITTEN PERMISSION OF ALPINE ENGINEERING. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOW.



TC LL	20.0 PSF	REF R487 - 16235
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266081
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEON- 12485
DUR.FAC.	1.25	

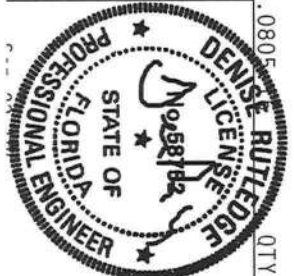


PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.080E QTY: 1 FL/-/3/-/-/R/- Scale = .125"/Ft.



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO THE FOLLOWING COMPONENT SAFETY INFORMATION: PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 BROMFIELD 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 IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS ONLY. ALL INSPECTION OF PLATES TO BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL ENGINEERING SOCIETY FOR THE TRUSS COMPONENTS. THE CONTRACTOR SHALL INDICATE THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.



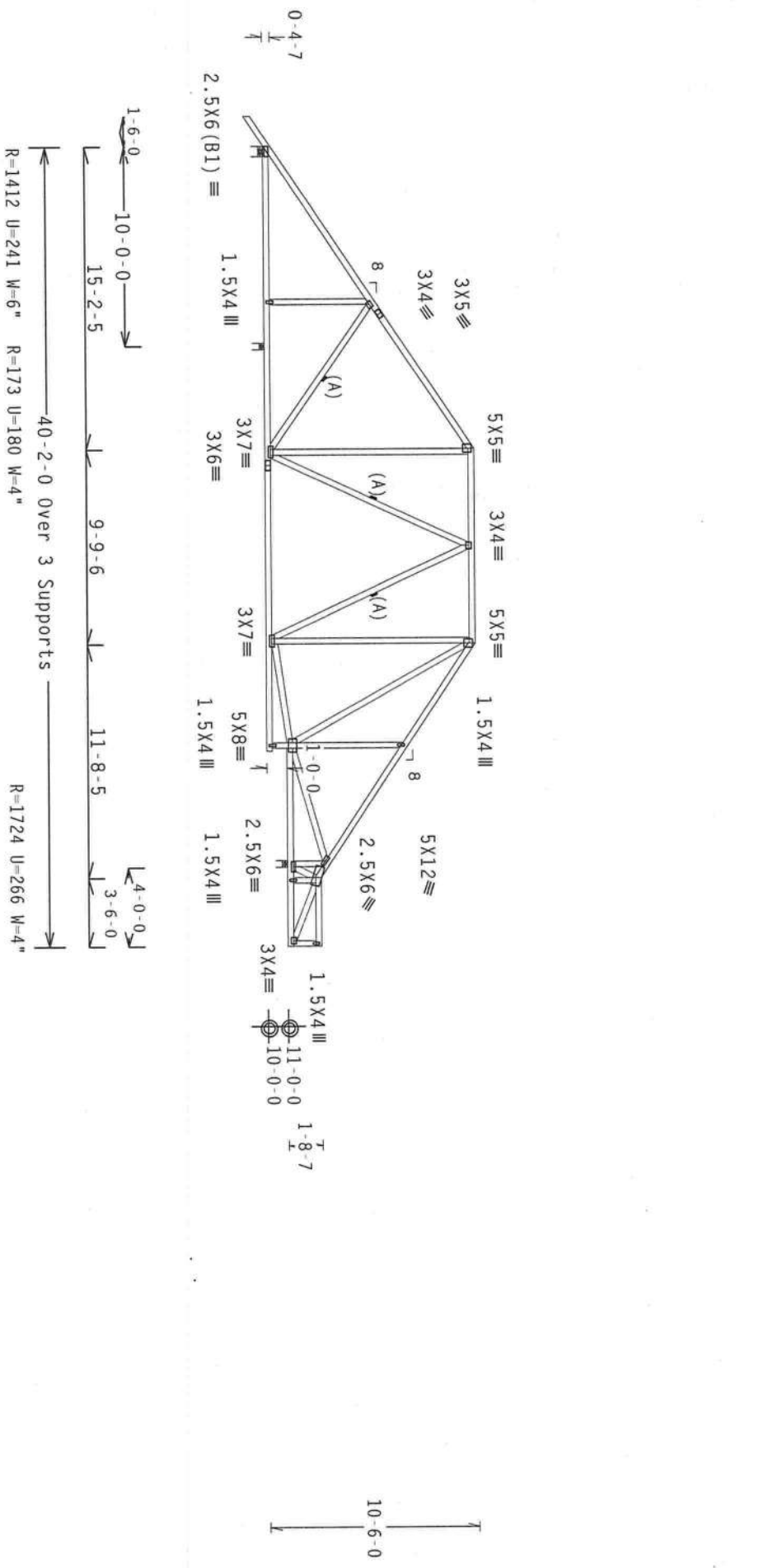
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TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266082
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 12496
DUR.FAC.	1.25	

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

110 mph wind, 14.94 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 6.50 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.

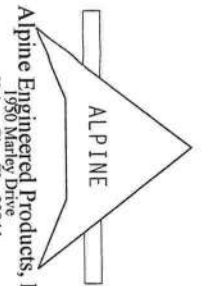
Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0800 QTY:1 FL/-/3/-/R/- Scale = .125"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BOLTING AND WELDING) PUBLISHED BY THE TRUSS PLATE INSTITUTE, 563 MADISON, VA 22129) FOR SAFETY PRACTICES PRIOR TO PREFORMING 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 AIAA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/T606 (W.A./S.K) ASTM A653 GRADE 40/60 OR K11/S1 GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 16072. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE THE ANNE RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT IDENTIFYING INDICATES ACCEPTANCE OF PROCESS AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.



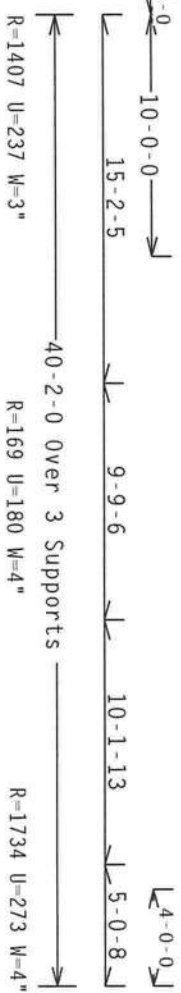
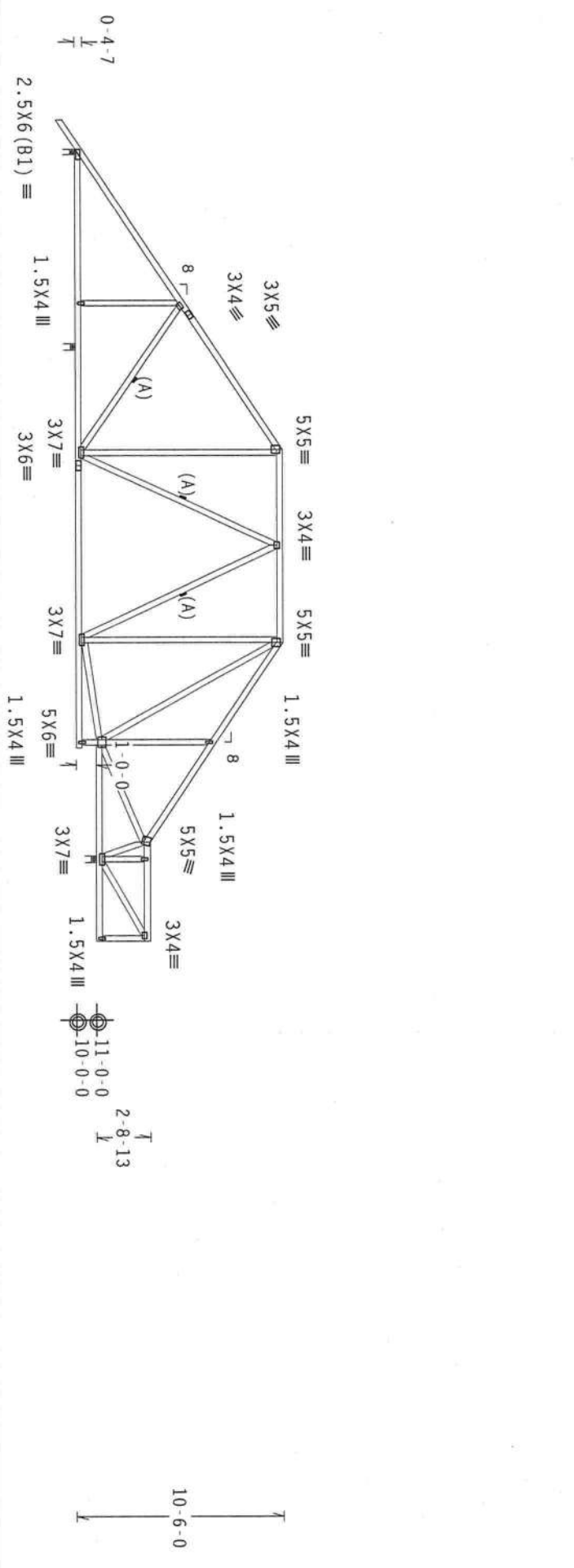
TC LL	20.0 PSF	REF R487- 16237
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCURS487 05266093
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEQN- 12526
DUR. FAC.	1.25	

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

110 mph wind, 14.94 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 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.  
 Deflection meets L/360 live and L/240 total load.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.080

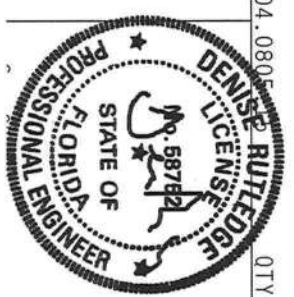
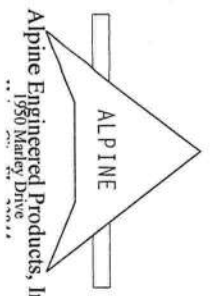
OTV:1

FL/-/3/-/R/-

Scale = .125" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATION, SAFETY AND PROTECTION. TRUSS ELEMENTS SHALL BE CONSIDERED AS MEMBERS OF THE TRUSS SYSTEM AND SHALL BE PROTECTED AGAINST COLLISION AND IMPACT. TOP CHORDS 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 AFRPA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/4/5/6) ASTM A653 GRADE 40/50 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AFRPA 2.3 OF TPI-2002, SECTION 2.3. THE DESIGN OF THIS TRUSS IS BASED ON THE ASSUMPTIONS AND CONDITIONS INDICATED. THE DESIGNER ACCEPTS RESPONSIBILITY FOR THE DESIGN AND THE RESPONSIBILITY OF THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



TC LL	20.0 PSF	REF	R487 - -	16238
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266084
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT.LD.	40.0 PSF	SEON-	12522	
DUR.FAC.	1.25			

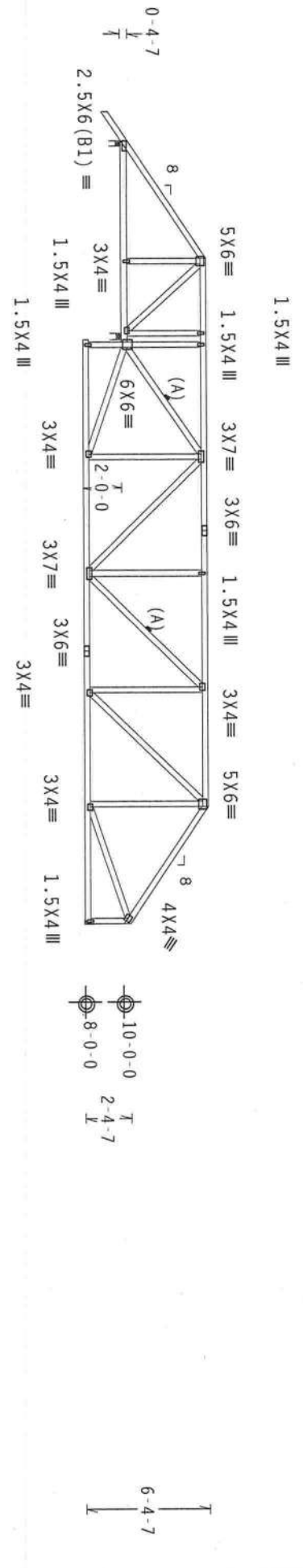




I = recommended connection based on manufacturer tested capacities and  
 calculations. Conditions may exist that require different connections  
 than indicated. Refer to manufacturer publication for additional information.

Right end vertical not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.

Reflection meets L/360 live and L/240 total load.



Design Crit: TPI-1995 (STD)/FBC

7.04.080

QTY: 1

FL/-/3/-/R/-

Scale = .125"/Ft.

REF R487-- 16241

DATE 09/23/05

DRW HCUR487 05266087

HC-ENG JB/ADR

SEQN- 12345

**ALPINE**

Alpine Engineered Products, Inc.  
 1950 Menley Drive

**PROFESSIONAL ENGINEER**  
 DENISE RUTLEDGE  
 LICENSE # 58752  
 STATE OF FLORIDA

ALPINE ENGINEERED 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 ALPINE PRODUCTS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE DESIGN COMPARES WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2019/1562A (Q195) ASH 4050 GRADE 40/60 (Q195) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY AN INDIVIDUAL QUALIFIED TO CONDUCT SUCH INSPECTIONS. ACCEPTANCE OF PROFESSIONAL THROUGH THE DESIGN AND CONSTRUCTION OF THE TRUSS COMPONENTS INDICATES ACCEPTANCE OF PROFESSIONAL THROUGH THE DESIGN AND CONSTRUCTION OF THE TRUSS COMPONENTS. THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.

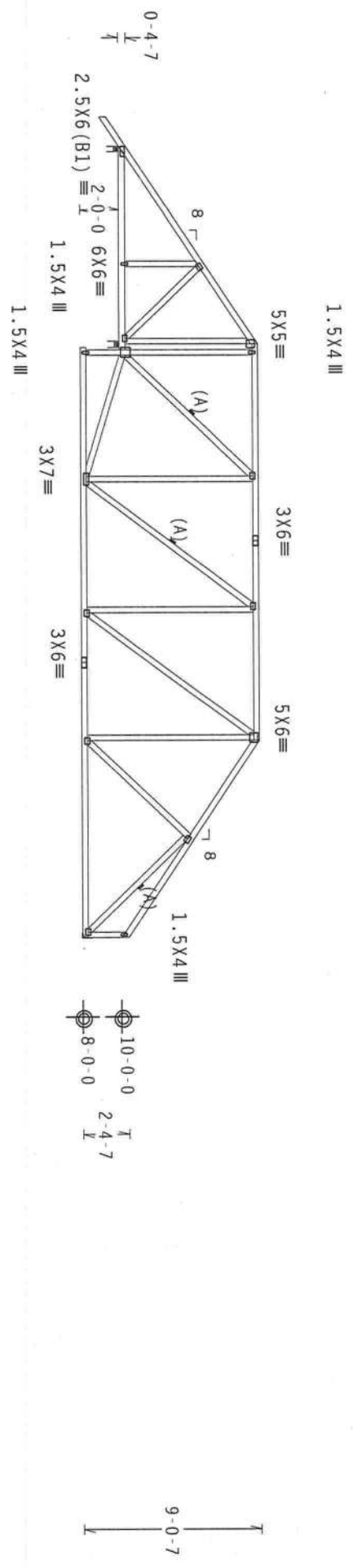


Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 13.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.  
 Deflection meets L/360 live and L/240 total load.

Right end vertical not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.

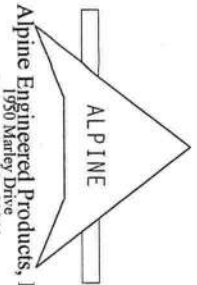


Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0806 QTY: 1 FL/-/3/-/-/R/- Scale = .125"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 3830 TORONTO DR., SUITE 200, HAMILTON, ONTARIO, CANADA L8N 3K7 AND WOODWORK TRUSS FUNCTIONS, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 3830 TORONTO DR., SUITE 200, HAMILTON, ONTARIO, CANADA L8N 3K7 FOR SAFETY PRECAUTIONS AND BRACING REQUIREMENTS. ALL TRUSSES, UNLESS OTHERWISE INDICATED, MUST BE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, H/S/T) ASTM A653 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE RESPONSIBILITY OF THE DESIGNER INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



TC LL	20.0 PSF	REF R487-- 16243
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266089
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 12362
DUR.FAC.	1.25	

Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense : B1 2x8 SP SS:  
 Webs 2x4 SP #3

110 mph wind, 14.49 ft mean hgt, ASCE 7-98, 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.

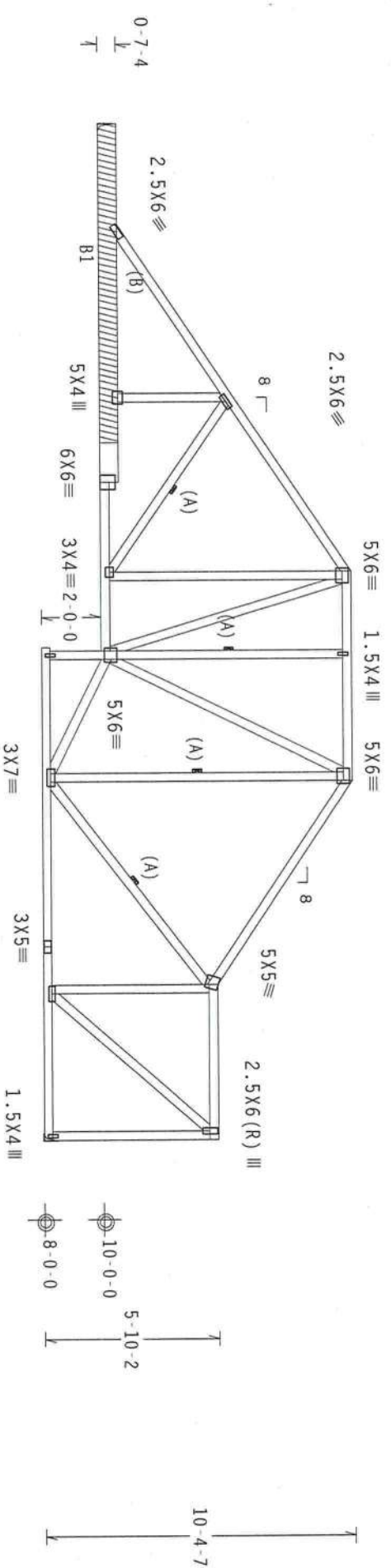
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Right end vertical not exposed to wind pressure.  
 (J) hanger connection not found in inventory file for this condition. Provide connection.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.

(2) 2x8x10-8-0 SP SS scabs at left end. Attach one scab to each outer face of chord with: 10d Common (0.148"x3" min.) nails @ 8" OC, Plus additional nail clusters at: BRG.: (3), heel: (5), 1st panel point: (2).  
 NOTE: 3-PLY HANGER REQUIRED



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.080

OTY: 1

Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC'S 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 2000 RIVER RD., SUITE 200, HOUSTON, TX 77058 AND WHICH ARE PART OF THE TPI SAFETY MANUAL. UNLESS OTHERWISE INDICATED, HOUSTON, TX 77058) FOR SAFETY PRACTICES AND WHICH APPLY TO THESE CONNECTIONS. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



TC LL	20.0 PSF	REF R487-- 16244
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266090
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEON- 12438
DUR. FAC.	1.25	



**Alpine Engineered Products, Inc.**  
 1950 Marney Drive  
 ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CORRECTIONS WITH APPLICABLE PROVISIONS OF BOB (NATIONAL DESIGN SPEC. BY AIA/AV) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/T606 (4/H/S/K) ASTM A653 GRADE 40/60 (G, K/H/S) GALV. STEEL. ALPINE 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 AMEX AS OF TPI-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.

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

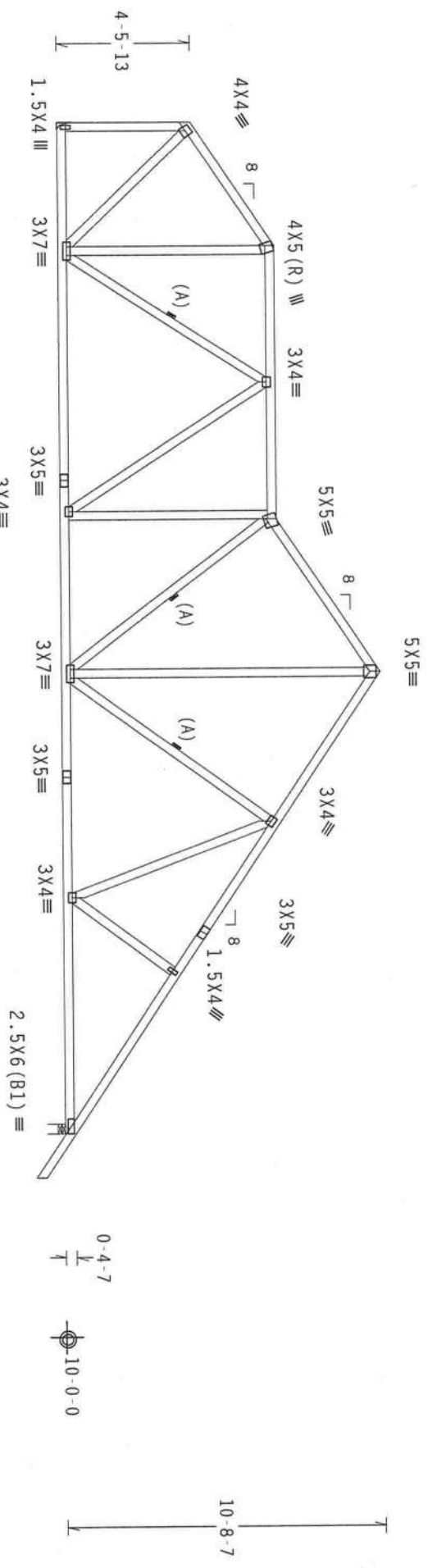
Left end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.04 ft mean hgt, ASCE 7-98, 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.

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.



4-2-0 | 9-2-0 | 5-2-0 | 15-6-0

34-0-0 Over 2 Supports

1-6-0

R=1471 U=237 W=4"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0800

QTY: 1

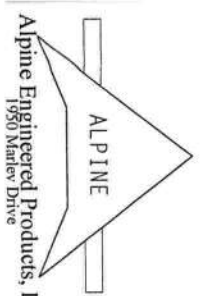
FL/-/3/-/1-/R/-

Scale = .1875"/Ft.

R=1345 U=233 H=Simpson HUS26  
 W/ (6) 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

\*\*\*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 THE DESIGN OF THE TRUSS OR THE CONNECTIONS TO THE BUILDING. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE CONNECTIONS TO THE BUILDING. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS OR THE CONNECTIONS TO THE BUILDING. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE CONNECTIONS TO THE BUILDING.



Alpine Engineered Products, Inc.  
 1950 Marley Drive



TC LL	20.0 PSF	REF	R487--	16245
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266091
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT. LD.	40.0 PSF	SEQN-	6010	
DUR. FAC.	1.25			

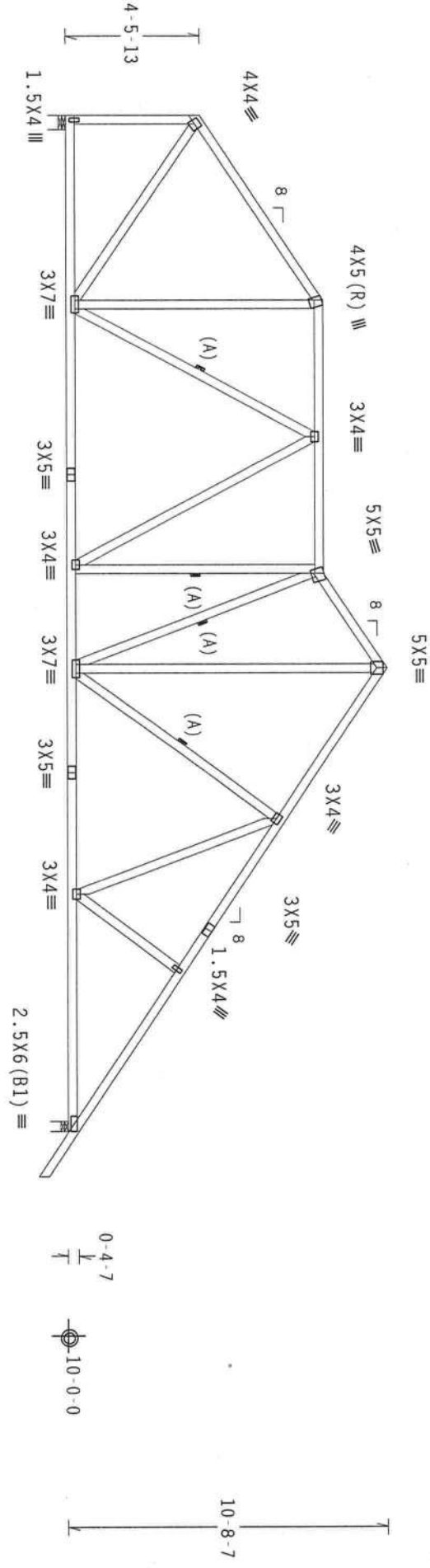
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 15.04 ft mean hgt, ASCE 7-98, 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.

Left end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.



R=1345 U=232 W=5.657"

R=1471 U=238 W=4"

PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0805 QTY:1 FL/-/3/-/1/-/1- Scale = .1875"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I 1-03 (BUILDING COMPONENT SAFETY IMPROVEMENT), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BRACE OR DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AISC) AND TPI-1995 (TRUSS PLATE INSTITUTE). UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE ASTM A36 STEEL. UNLESS OTHERWISE INDICATED, ALL CONNECTIONS SHALL BE MADE OF 20/19/16GA (4-1/2X) ASTM A653 GRADE 40/60 (4, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



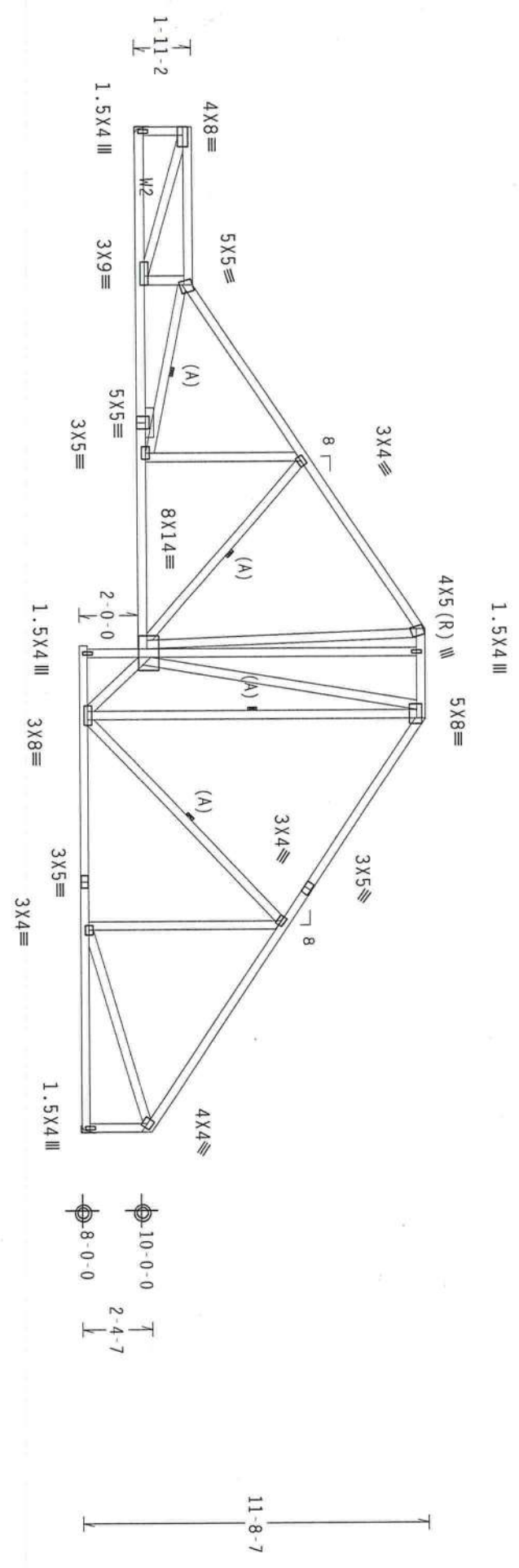
TC LL	20.0 PSF	REF	R487--	16246
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUR487	05266069
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT. LD.	40.0 PSF	SEQN-	6019	
DUR. FAC.	1.25			

Alpine Engineered Products, Inc.  
 1950 Marley Drive

op chord 2x4 SP #2 Dense  
 ot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:  
 Lt Splice Block 2x4 SP #3:

ax JT VERT DEFL: LL: 0.18" DL: 0.18" recommended camber 1/4"  
 A) Continuous lateral bracing equally spaced on member.  
 deflection meets L/360 Tive and L/240 total load.

110 mph wind, 15.04 ft mean hgt, ASCE 7-98, 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.  
 Right end vertical not exposed to wind pressure.  
 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.



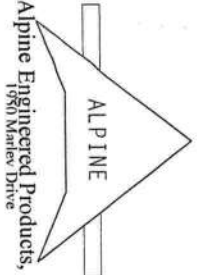
R=1360 U=230 H=Simpson HUS26  
 W/ (6) 10d Common, 0.148"x3.0" nails in Truss  
 W/ (14) 10d Common, 0.148"x3.0" nails in Girder  
 Girder ts (1)2X6 min. So.Pine

R=1360 U=218 H=Simpson HUS26  
 W/ (6) 10d Common, 0.148"x3.0" nails in Truss  
 W/ (14) 10d Common, 0.148"x3.0" nails in Girder  
 Girder ts (1)2X6 min. So.Pine

LT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0805 QTY:1 FL/-/3/-/R/- Scale = .1875"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXPERT 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'ORFORD DR., SUITE 200, MADISON, WI 53719 AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6100 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 THE DESIGN OR CONSTRUCTION OF TRUSSES.  
 TRUSSES IN CONFORMANCE WITH THE PROVISIONS OF AOS NATIONAL DESIGN SPEC. BY AEP/PAI AND TPI. ALPINE  
 CEILING PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/66 (W, K/H/S) GALV. STEEL. ALPINE  
 CEILING 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 ON THIS  
 COMPANING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
 THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



Alpine Engineered Products, Inc.  
 1950 Marley Drive



TC LL	20.0 PSF	REF	R487-- 16247
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05266092
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT.LD.	40.0 PSF	SEON-	12448
DUR.FAC.	1.25		

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

End verticals not exposed to wind pressure.

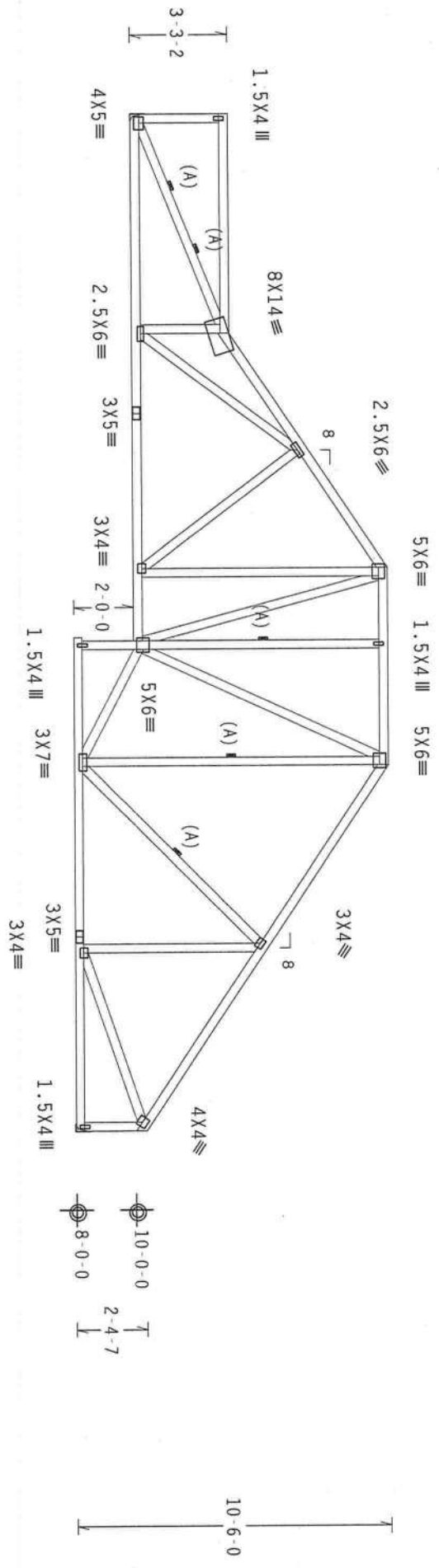
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

110 mph wind, 14.44 ft mean hgt, ASCE 7-98, 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.

Max JT VERT DEFL: LL: 0.16" DL: 0.16" recommended camber 1/4"

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

QTY: 1

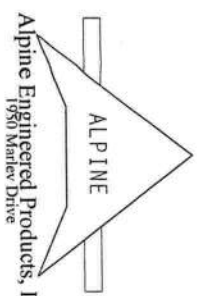
FL/-/3/-/R/-

Scale = .1875"/ft.

R-1360 U=239 H=Simpson HUS26  
w/ (6) 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

R-1360 U=220 H=Simpson HUS26  
w/ (6) 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

\*\*\*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 COMPANY, 6800 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 DETAIL, FABRICATION, OR INSTALLATION ERRORS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ALPINE PRODUCTS ARE NOT TO BE USED IN ANY MANNER NOT SPECIFICALLY INTENDED BY THE MANUFACTURER. ALPINE PRODUCTS ARE NOT TO BE USED IN ANY MANNER NOT SPECIFICALLY INTENDED BY THE MANUFACTURER. ALPINE PRODUCTS ARE NOT TO BE USED IN ANY MANNER NOT SPECIFICALLY INTENDED BY THE MANUFACTURER.



TC LL	20.0 PSF	REF R487--	16248
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCURS487	05266093
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT. LD.	40.0 PSF	SEON-	5986
DUR. FAC.	1.25		



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

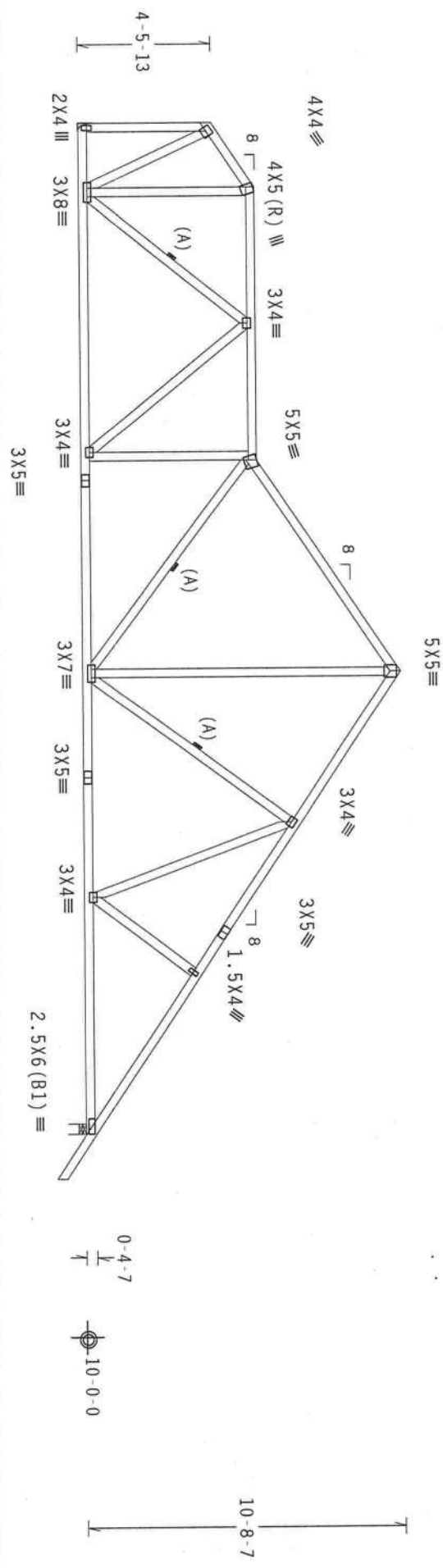
Left end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.04 ft mean hgt, ASCE 7-98, 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.

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.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

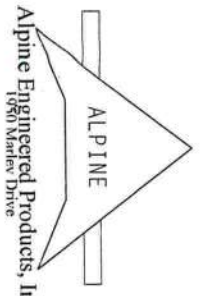
QTY: 1

FL/-/3/-/-/R/-

Scale = .1875"/ft.

R=1345 U=234 H=Simpson HUS26  
 W/(6) 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

**\*\*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'AMORENO DR., SUITE 200, MADISON, WI 53719) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PREPARING THESE TRUSSES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



ALPINE  
 Alpine Engineered Products, Inc.  
 1950 Marlev Drive

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING OR MODIFICATIONS MADE BY THE INSTALLATION CONTRACTOR. BRASS IN CORNER PLATES IS APPLICABLE. PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/EA) AND TPI. DESIGNER'S PLATES ARE MADE OF 2018/2160A (W/H/S/K) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. 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 AMEX A3 OF 1911-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



TC LL	20.0 PSF	REF	R487--	16250
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266095
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT. LD.	40.0 PSF	SEQN-	6014	
DUR. FAC.	1.25			

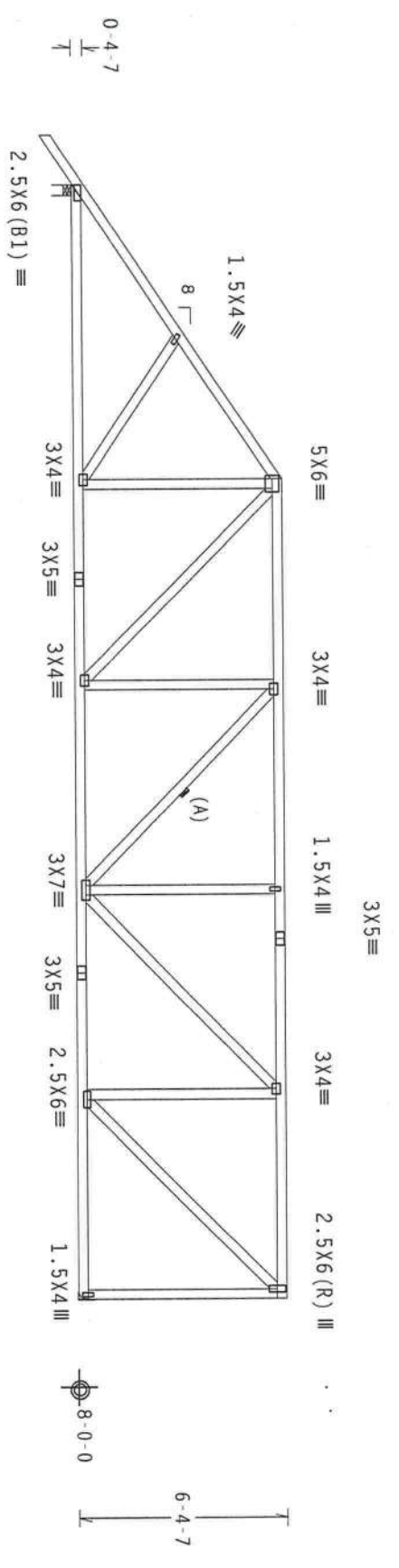
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 10.87 ft mean hgt, ASCE 7-98, 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.

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.

Right end vertical not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

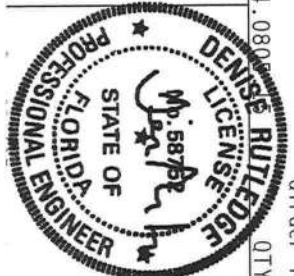
7.04.080

QTY: 1 FL/-/3/-/-/R/-

Scale = .1875"/ft.

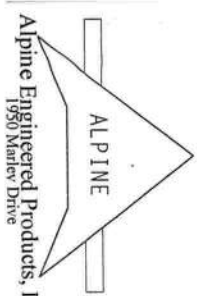
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 566 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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 FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/EA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/1564 (W-H/S/K) ASTM A563 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY ALPINE 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 ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



R=1345 U=261 H=Stimpson HUS26  
 W/ (6) 10d Common, 0.148"x3.0" nails in Truss  
 W/ (14) 10d Common, 0.148"x3.0" nails in girder  
 Girders (1) 2X6 min. So. Pine

TC LL	20.0 PSF	REF R487- 16251
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUR487 05266096
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEGN- 5950
DUR. FAC.	1.25	



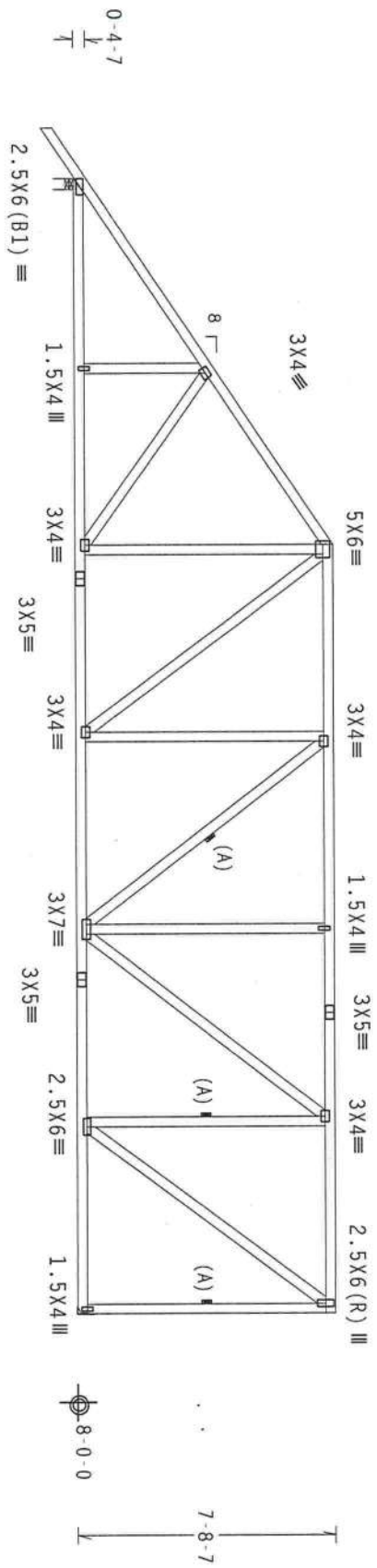
Alpine Engineered Products, Inc.  
 1950 Marley Drive

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

110 mph wind, 11.54 ft mean hgt, ASCE 7-98, 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.

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.  
 Deflection meets L/360 live and L/240 total load.

Right end vertical not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.



R=1471 U-235 W=4"

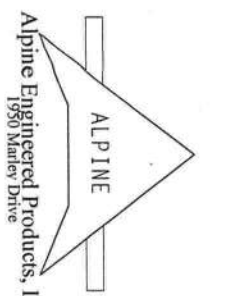
PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

QTY: 1 FL/-/3/-/R/-

Scale = .1875"/ft.



**ALPINE ENGINEERED PRODUCTS, INC.**  
 1950 Marney Drive  
 \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
 REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583  
 DUNFORD DR., SUITE 200, MADISON, WI 53719 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 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 THE DESIGN OF THE TRUSS OR THE CONNECTIONS TO THE BUILDING.  
 DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ARBA) AND TPI. ALPINE  
 CONNECTOR PLATES ARE MADE OF 20/18/16GA. (W./H./S.) ASTM A653 GRADE 40/60 (W./H./S.) GALV. STEEL. APPLY  
 PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.  
 ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A4 OF TPI-2002 SEC.3. A SEAL ON THIS  
 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
 DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



TC LL	20.0 PSF	REF	R487--	16252
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCSR487	05266097
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT.LD.	40.0 PSF	SEON-	5957	
DUR.FAC.	1.25			

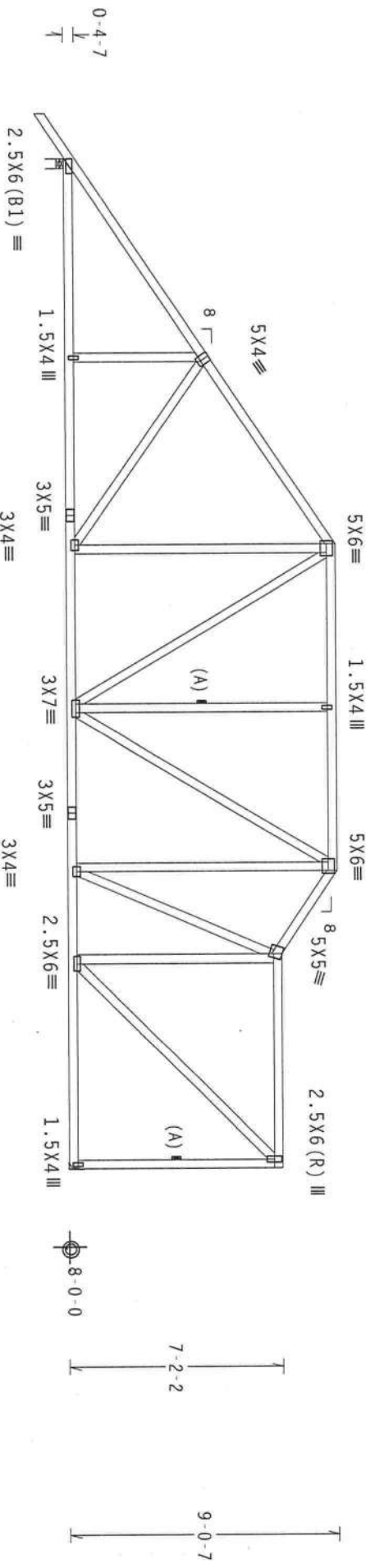
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 12.20 ft mean hgt, ASCE 7-98, 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.

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.

Right end vertical not exposed to wind pressure.  
 (A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.



1-6-0  
 13-0-0  
 11-0-0  
 2-9-8  
 7-2-8  
 34-0-0 Over 2 Supports  
 R=1471 U=233 W=4"

R=1345 U=257 H=Simpson HUS26  
 W/ (6) 10d Common, 0.148"x3.0" nails in Truss  
 W/ (14) 10d Common, 0.148"x3.0" nails in Girder  
 Girder ts (1)2X6 min. So.pine

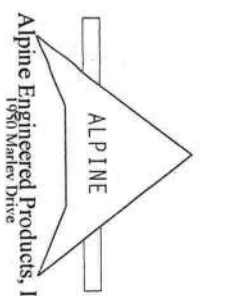
PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.080

QTY: 1 FL/-/3/-/R/-

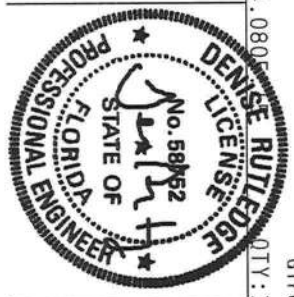
Scale = .1875"/Ft.



**ALPINE**  
 Alpine Engineered Products, Inc.  
 1650 Manley Drive  
 Madison, WI 53719

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDORIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6900 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 DURING INSTALLATION OR BRACING OF TRUSSES IN CONFORMANCE WITH THE PROVISIONS OF ANY ADDITIONAL DESIGN SPEC. BY AERVA AND TPI. DESIGN OF TRUSSES AND 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 AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.



TC LL	20.0 PSF	REF	R487--	16253
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCSR487	05266098
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT. LD.	40.0 PSF	SEON-	5964	
DUR. FAC.	1.25			

OP Chord 2x6 SP #2 :T1 2x4 SP #2 Dense:  
 ot chord 2x6 SP #2 :B2 2x6 SP #1 Dense:  
 Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

10 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located  
 nywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0  
 sf.

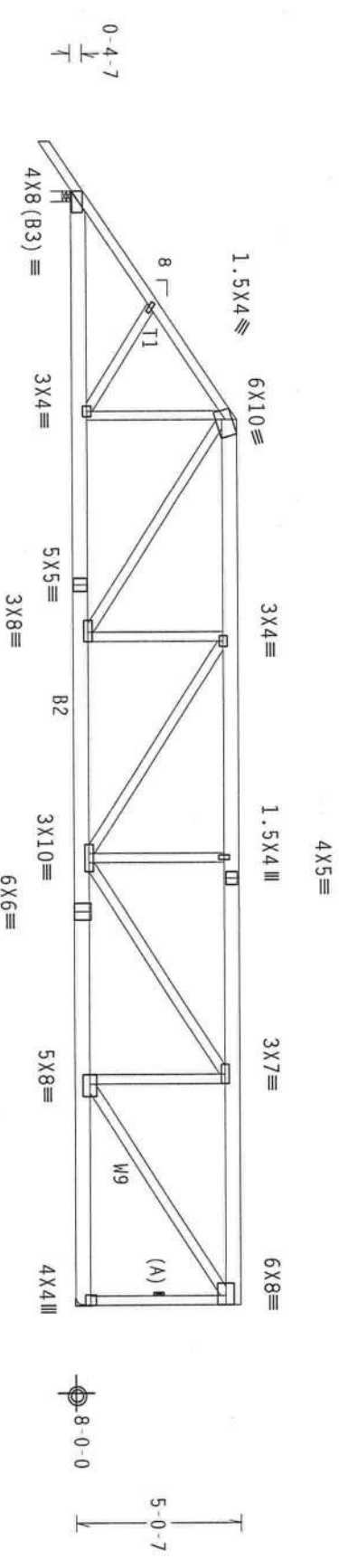
= recommended connection based on manufacturer tested capacities and  
 alculations. Conditions may exist that require different connections  
 han indicated. Refer to manufacturer publication for additional information.

A) Continuous lateral bracing equally spaced on member.  
 eflexion meets L/360 live and L/240 total load.

SPECIAL LOADS

TC - From	DUR.FAC. = 1.25 / PLATE	DUR.FAC. = 1.25
60 PLF at -1.50 to	60 PLF at 34.00	
4 PLF at -1.50 to	4 PLF at 0.00	
20 PLF at 0.00 to	20 PLF at 34.00	
TC - From	Load at 7.06, 9.06, 11.06, 13.06, 15.06	
17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06, 33.06		
BC - From	423 LB Conc. Load at 7.00	
BC - From	74 LB Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06	
BC - From	21.06, 23.06, 25.06, 27.06, 29.06, 31.06, 33.06	

Right end vertical not exposed to wind pressure.  
 #1 hip supports 7-0-0 jacks with no webs.



LT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

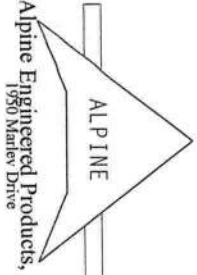
7.04.0805

QTY: 1 FL-/3/-/R/-

Scale = .1875"/ft.

R-3214 U=528 W=4"

R=3491 U=514 H=Simpson HGS26  
 w/ (8) 10d Common, 0.148"x3.0" nails in Truss  
 w/ (20) 10d Common, 0.148"x3.0" nails in Girder  
 Girder is (2)2X6 min. So. Pine



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THE DESIGN. ANY FAILURE OF THE TRUSS OR CONNECTIONS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AREA) AND TPI. ALPINE CONNECTIONS ARE MADE OF 2018/16GA (W/H/S/D) ASTM A563 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



TC LL	20.0 PSF	REF R487- 16254
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUR487 05266099
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEON- 12649
DUR.FAC.	1.25	

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

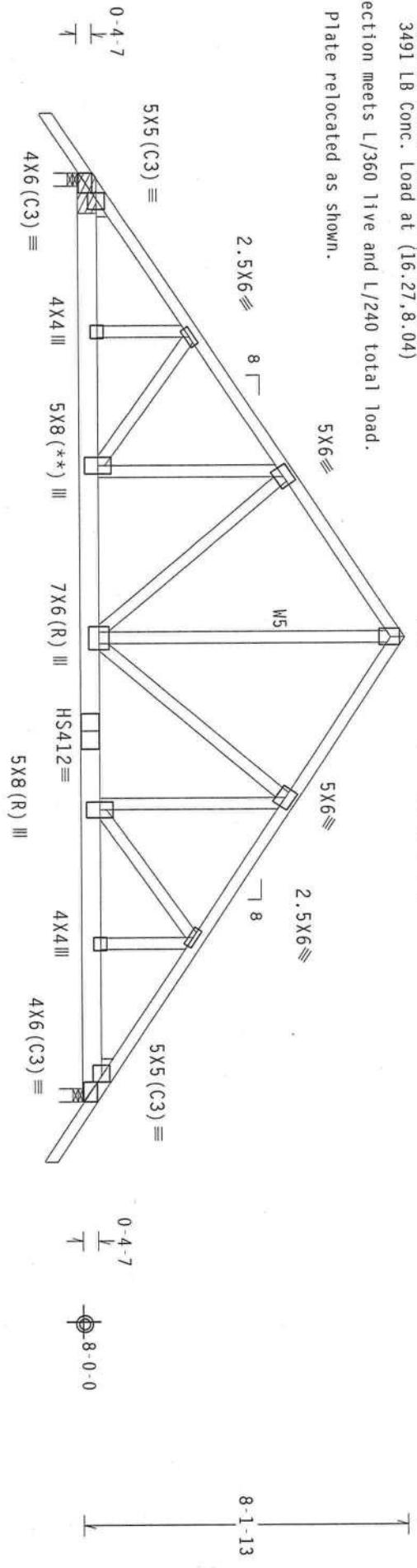
**SPECIAL LOADS**

DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	60 PLF at -1.50 to	60 PLF at 24.83
BC - From	4 PLF at -1.50 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 23.33
BC - From	4 PLF at 23.33 to	4 PLF at 24.83
PLB - 1360 LB Conc.	Load at (2.27, 8.04)	
PLB - 1360 LB Conc.	Load at (4.27, 8.04)	
PLB - 1360 LB Conc.	Load at (6.27, 8.04)	
PLB - 1360 LB Conc.	Load at (8.27, 8.04)	
PLB - 1345 LB Conc.	Load at (10.27, 8.04)	
PLB - 1345 LB Conc.	Load at (12.27, 8.04)	
PLB - 1345 LB Conc.	Load at (14.27, 8.04)	
PLB - 3491 LB Conc.	Load at (16.27, 8.04)	

Deflection meets L/360 live and L/240 total load.

(\*\*) Plate relocated as shown.



**2 COMPLETE TRUSSES REQUIRED**

Nailing Schedule: (10d Common, (0.148"x3", 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: 10d Common (0.148"x3", min.) nails  
 BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
 1 0.000' 1 12" 4 Match Truss  
 Refer to drawing CNBRG1103 for additional information.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

PLT TYP. 20 Gauge HS.Wave TPI

Design Crft: TPI-1995 (STD)/FBC

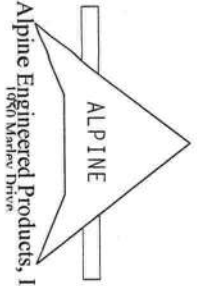
7.04.080

QTY: 1

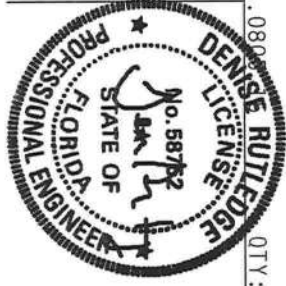
FL/-/3/-/R/-

Scale = .25" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOGHUE 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.



Alpine Engineered Products, Inc. 1450 Marlow Drive



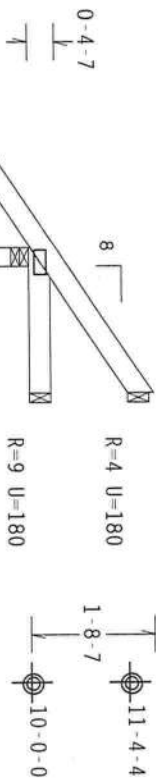
TC LL	20.0 PSF	REF R487--	16255
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266100
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	12594
DUR.FAC.	1.25		

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 10.54 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



≤1-6-0  
2-0-0 Over 3 Supports  
R=242 U=180 W=3"

PLT TYP. Wave TPI

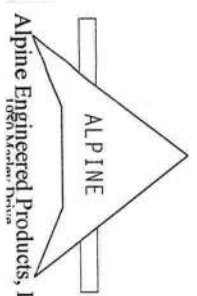
Design Crit: TPI-1995(STD)/FBC

7.04.080

QTY: 1

FL-/3/-/R/-

Scale = .375"/ft.



Alpine Engineered Products, Inc. 1500 Woodland Drive

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 688 DUNFORD DR., SUITE 200, MADISON, WI 53719 AND WPCA (WOOD PRODUCT 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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (ANSTEEL), AIA (WOOD), AND AIA (STEEL) SHALL APPLY. CONNECTOR PLATES ARE MADE TO THE TRUSS DESIGN. OTHERS LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. A SEAL ON THIS DRAWING IS REQUIRED. THE SEAL SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND NOT FOR THE ENTIRE PROJECT. THE SEAL DOES NOT CONSTITUTE AN ENDORSEMENT OF THE RESPONSIBILITY OF THE

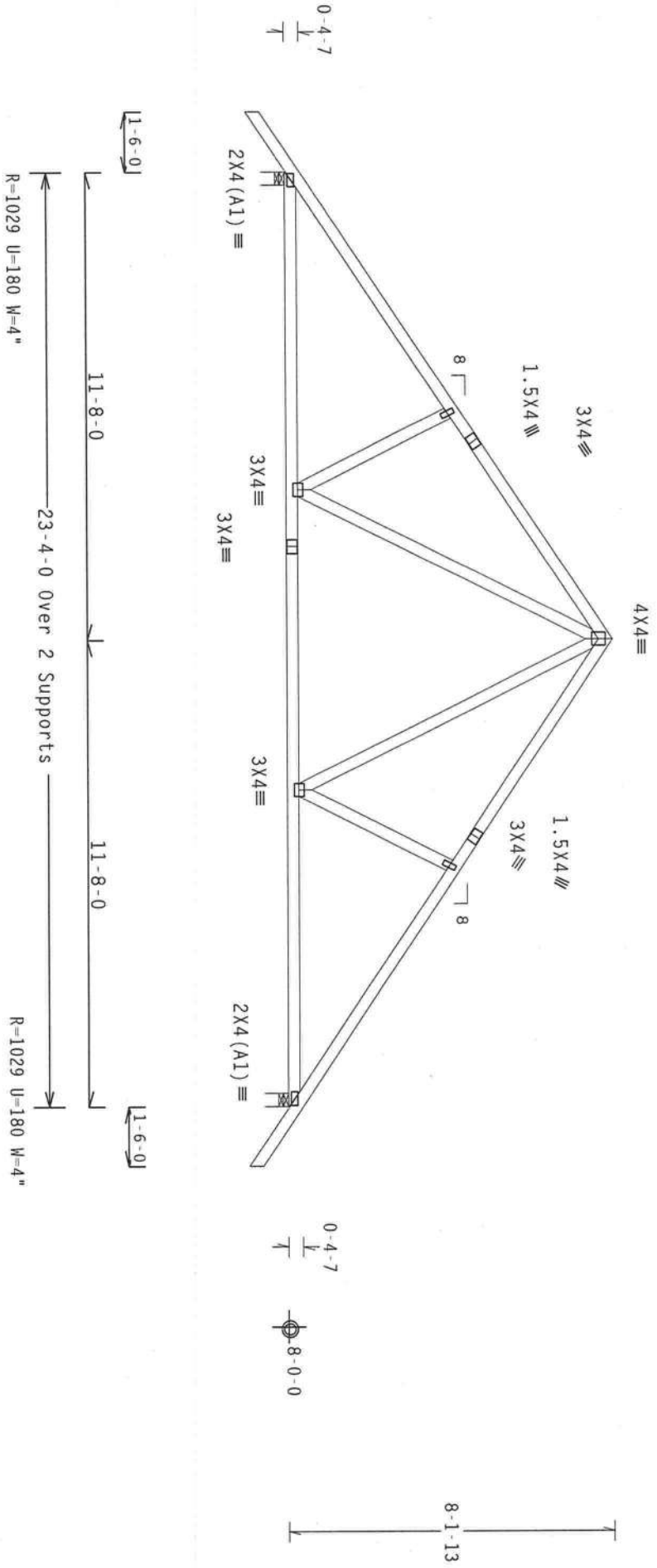


TC LL	20.0 PSF	REF R487--	16256
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCURS487	05266123
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT. LD.	40.0 PSF	SEQN-	5908
DUR. FAC.	1.25		

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 11.76 ft mean hgt, ASCE 7-98, 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.



PLT TYP. Wave TPI

Design Cr't: TPI-1995 (STD)/FBC

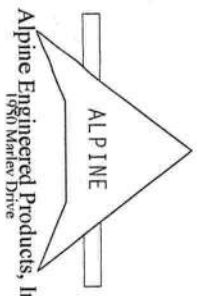
7.04.0805

QTY: 5 FL/-/3/-/R/-

Scale = .25" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, WAUWATON, WI 53719) AND WTA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, WAUWATON, 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 SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGNER'S DESIGN FOR PLATES ARE MADE OF 2017/01/06 (04/15/02) ASTM A563 GRADE 40/50 (U, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2-160B AND 160C. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AGENCY AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE CONTRACTOR'S USE OF THIS PROGRAM FOR ANY BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.



Alpine Engineered Products, Inc.  
 1980 Marlow Drive



TC LL	20.0 PSF	REF	R487--	16257
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266070
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	5894	
DUR.FAC.	1.25			

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

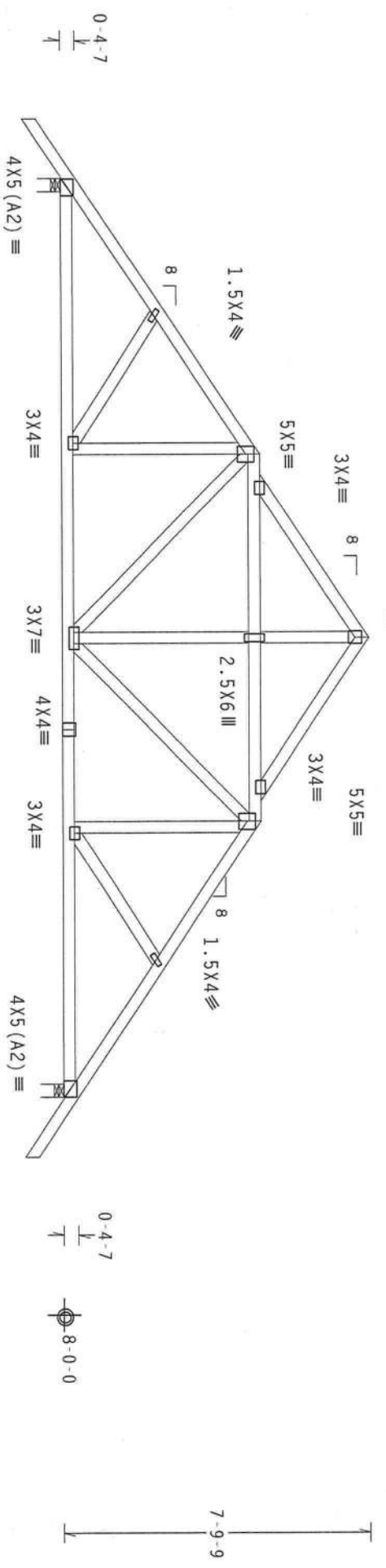
110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Deflection meets L/360 live and L/240 total load.

SPECIAL LOADS

TC - From	DUR.	FAC.	=1.25 /	PLATE	DUR.	FAC.	=1.25)
60 PLF at -1.50 to				60 PLF at			24.83
4 PLF at -1.50 to				4 PLF at			0.00
20 PLF at 0.00 to				20 PLF at			23.33
4 PLF at 23.33 to				4 PLF at			24.83
179 LB Conc. Load at (7.06,13.00)				179 LB Conc. Load at (9.06,14.01)			
179 LB Conc. Load at (11.06,15.09)				179 LB Conc. Load at (12.27,15.09)			
179 LB Conc. Load at (14.27,14.01)				179 LB Conc. Load at (16.27,13.00)			
423 LB Conc. Load at (7.00,8.04)				74 LB Conc. Load at (9.06,8.04)			
74 LB Conc. Load at (11.06,8.04)				74 LB Conc. Load at (12.27,8.04)			
74 LB Conc. Load at (14.27,8.04)				74 LB Conc. Load at (16.33,8.04)			



R=2137 U=455 W=4"

R=2137 U=455 W=4"

PLT TYP. Wave TPI

Design Cr1t: TPI-1995(Std)/FBC

7.04.0805

QTY: 1 FL/-/3/-/R/-

Scale = .25" / Ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OR DAMAGE TO THE TRUSS OR TO THE BUILDING SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.



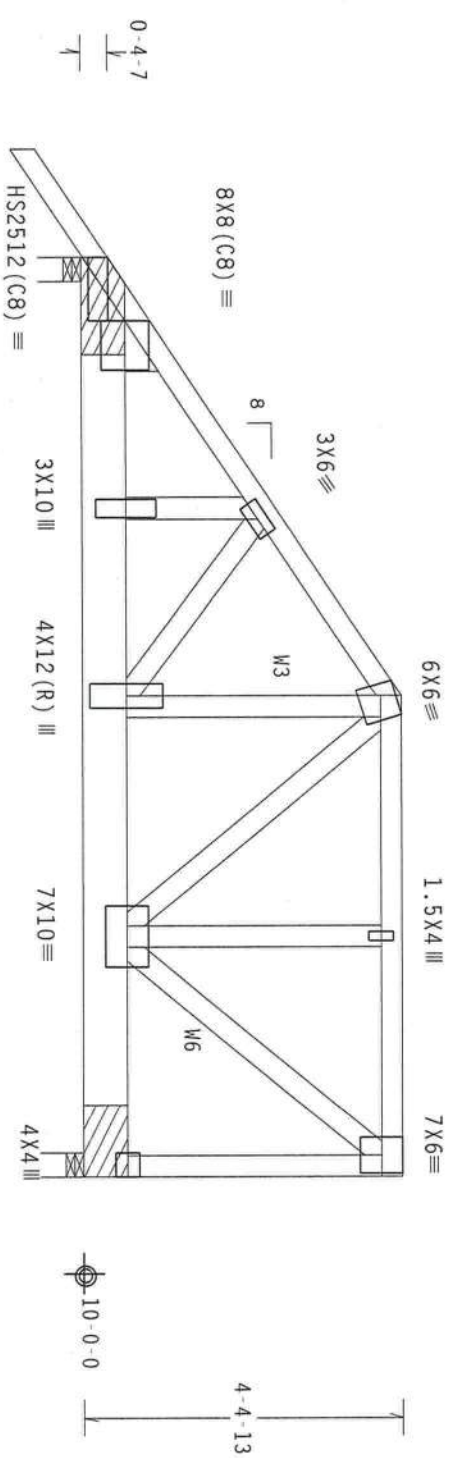
TC LL	20.0 PSF	REF	R487--	16258
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCSR487	05266101
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	12673	
DUR.FAC.	1.25			

Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x8 SP SS  
 Webs 2x4 SP #3 :W3, W6 2x4 SP #2 Dense:  
 Lt Wedge 2x6 SP #2:

Bearing blocks: Nail type: 10d Common (0.148"x3", min.) nails  
 BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
 1 0.000' 1 16" Match Truss  
 2 12.333' 4 12" Match Truss  
 Bearing block to be same size and species as bottom chord.  
 Refer to drawing CNBRGblk1103 for additional information.

Deflection meets L/360 Tive and L/240 total load.

**SPECIAL LOADS**  
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 60 PLF at -1.50 to 60 PLF at 12.67  
 BC - From 4 PLF at -1.50 to 4 PLF at 0.00  
 BC - From 20 PLF at 0.00 to 20 PLF at 12.67  
 BC - 1360 LB Conc. Load at 0.40, 2.40, 4.40, 6.40  
 BC - 1345 LB Conc. Load at 8.40, 10.40  
 110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind  
 BC DL=5.0 psf.  
 Right end vertical not exposed to wind pressure.



1-6-0  
 6-0-8  
 6-7-8  
 12-8-0 Over 2 Supports  
 R=5409 U=997 W=4"  
 R=3831 U=746 W=4"

PLT TYP. 20 Gauge HS.Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

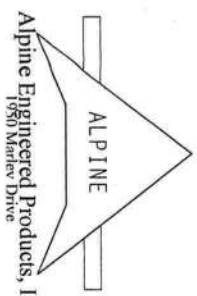
QTY:1

FL/-/3/-/R/-

Scale = .375"/Ft.

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

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI FABRICATING, INSTALLING, SHIPPING, INSTALLING AND BRACING, DESIGN AND BRACING MANUALS, INCLUDING, BUT NOT LIMITED TO, THE TPI TRUSS FABRICATING AND BRACING MANUALS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT.



Alpine Engineered Products, Inc.  
 1950 Marley Drive



TC LL	20.0 PSF	REF	R487--	16259
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266102
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT. LD.	40.0 PSF	SECN	-	12615
DUR. FAC.	1.25			

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

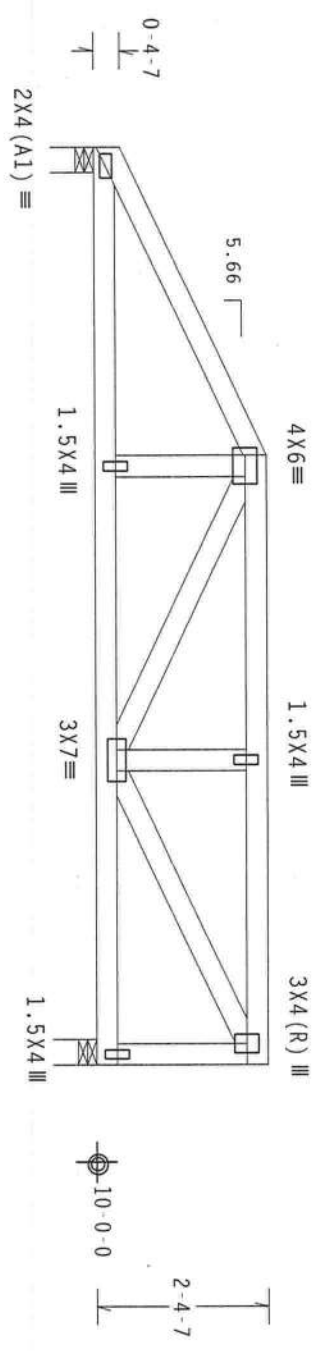
110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load.

**SPECIAL LOADS**

TC - From	60 PLF at 0.00 to 20 PLF at 12.67	DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25
BC - From	20 PLF at 0.00 to 48 LB Conc. Load at 4.31, 26 LB Conc. Load at 4.31,	60 PLF at 12.67, 20 PLF at 12.67, 6.06, 8.06, 10.06, 12.06, 6.06, 8.06, 10.06, 12.06

Right end vertical not exposed to wind pressure.



4-2-15  
 8-5-1  
 12-8-0 Over 2 Supports  
 R=666 U=259 W=4.157"  
 R=724 U=310 W=4.157"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.080

QTY: 1

FL/-/3/-/R/-

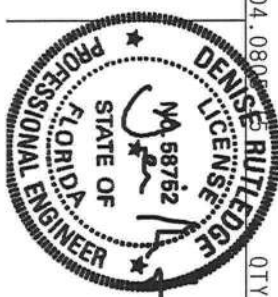
Scale = .375" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS 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.  
 1950 Marley Drive

**\*\*IMPORTANT\*\*** Furnish a copy of this design to the installation contractor. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THE DESIGN, INSTALLING AND BRACING. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/10GA. (U-4/W/5/E) ASTM A553 GRADE 40/60 (U- K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



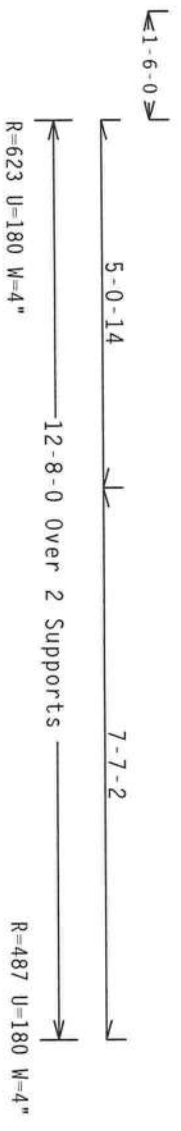
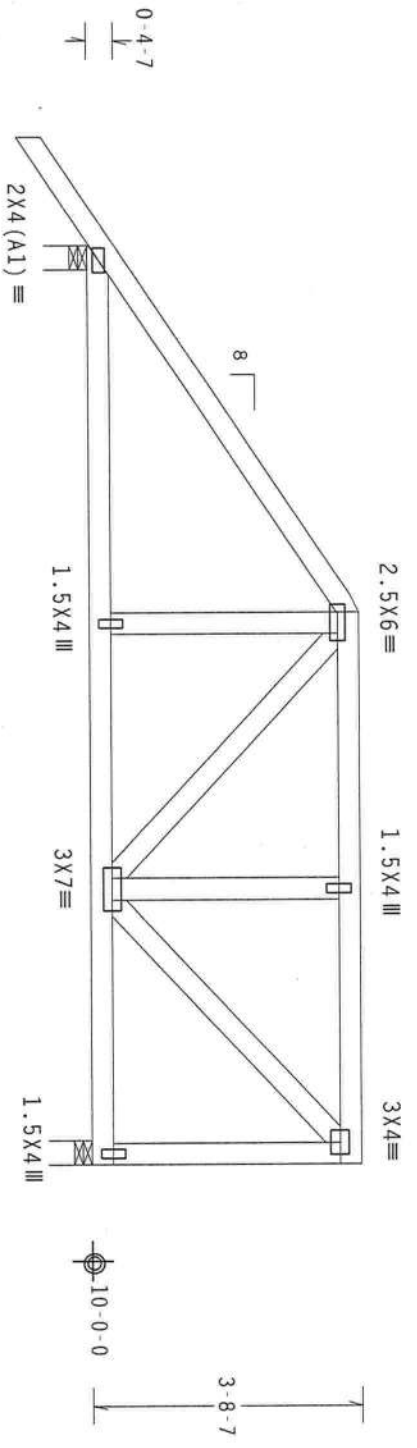
TC LL	20.0 PSF	REF R487--	16260
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266103
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	5926
DUR.FAC.	1.25		

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 11.54 ft mean hgt, ASCE 7-98, 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.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave TPI

Design Crft: TPI-1995 (STD)/FBC

7.04.0805

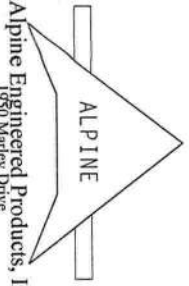
QTY: 1

FL/-/3/-/R/-

Scale = .375"/ft.

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENTS.



Alpine Engineered Products, Inc.  
 1650 Marlow Drive



TC LL	20.0 PSF	REF R487--	16261
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266071
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEON-	5904
DUR.FAC.	1.25		

Top chord 2x4 SP #2 Dense  
 Bot chord 2x8 SP SS  
 Webs 2x4 SP #3  
 : Lt Wedge 2x6 SP #2:: Rt Wedge 2x6 SP #2:

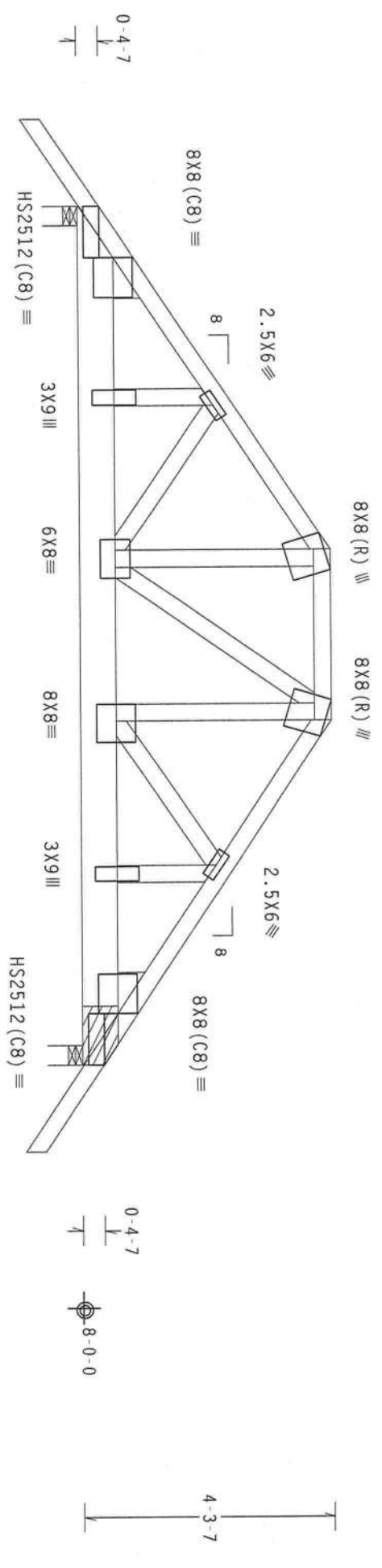
Bearing blocks: Nail type: 10d Common (0.148"x3", min.) nails  
 BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
 2 14.333' 1 12" 9  
 Bearing block to be same size and species as bottom chord.  
 Refer to drawing CNBRGRLK1103 for additional information.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

**SPECIAL LOADS**

TC - From	DUR.	FAC.	=1.25 / PLATE	DUR.	FAC.	=1.25
BC - From	60 PLF	at -1.50 to		60 PLF	at 16.17	
BC - From	4 PLF	at -1.50 to		4 PLF	at 0.00	
BC - From	20 PLF	at 0.00 to		20 PLF	at 14.67	
BC - From	4 PLF	at 14.67 to		4 PLF	at 16.17	
BC - 2410 LB Conc.	Load at	7.13				
BC - 1099 LB Conc.	Load at	9.06				
BC - 1110 LB Conc.	Load at	11.06				
BC - 1107 LB Conc.	Load at	13.06				

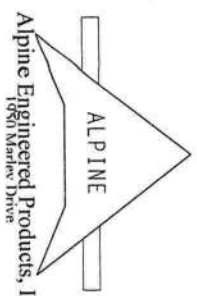
Deflection meets L/360 Tive and L/240 total load.



PLT TYP. 20 Gauge HS.Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0805 QTY:1 FL/-/3/-/R/- Scale = .375"/ft.

**\*\*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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD JOINT 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 DETAILING FROM THIS DESIGN. ANY PLATING OR BRACING PRODUCTS IN COMPLIANCE WITH THE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE DESIGN CONTRACTORS SHALL MAKE OF 20/18/16GA. (A/H/S/S) ASIN A653 GRADE 40/60 (H, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT PROVIDED. THE SUITABILITY AND USE OF THIS DRAWING IS THE RESPONSIBILITY OF THE USER.



Alpine Engineered Products, Inc.  
 1650 Marlow Drive



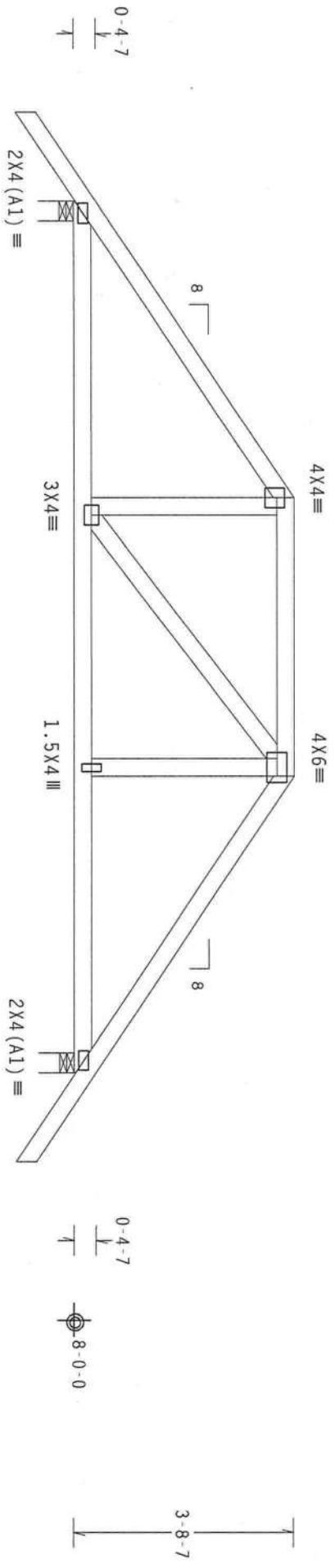
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TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCSR487 05266104
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT. LD.	40.0 PSF	SEON-	12471
DUR. FAC.	1.25		

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

#1 hip supports 5-0-0 jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

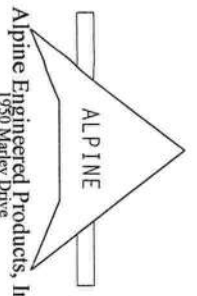
Deflection meets L/360 live and L/240 total load.



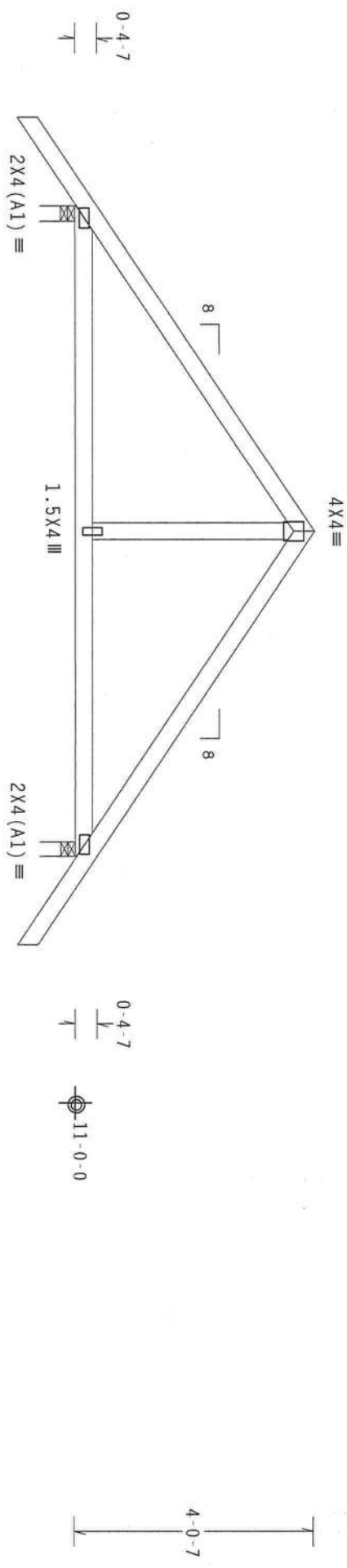
PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.0800 QTY: 1 FL/-/3/-/R/- Scale = .375"/Ft.

\*\*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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* 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 PRODUCT FABRICATING, MANUFACTURING, SHIPPING, INSTALLING AND BRACING INSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. CONNECTOR PLATES ARE MADE OF 20/18/16GA. (40/45/28) ASTM A653 GRADE 40/60. (4) (K18-5) 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 ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE CONTRACTOR AND USE OF THIS COMPONENT END ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



TC LL	20.0 PSF	REF	R487 - 16263
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05266105
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT.LD.	40.0 PSF	SEQN-	5900
DUR.FAC.	1.25		



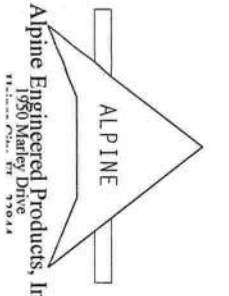
PLT TYP. Wave TPI

Design Crit: TPI-1995 (STD)/FBC

7.04.08

QTY: 1 FL/-/3/-/R/-

Scale = .375" / Ft.



**ALPINE Engineered Products, Inc.**  
 1950 Marley Drive  
 Tallahassee, FL 32314

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PROPER BRACING IS ESSENTIAL TO THE STABILITY OF THE TRUSS. THE DESIGNER SHALL PROVIDE A BRACING PLAN TO THE CONTRACTOR. THE CONTRACTOR SHALL FOLLOW THE BRACING PLAN THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE TRUSS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE TRUSS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE TRUSS THROUGHOUT CONSTRUCTION.

**\*\*IMPORTANT\*\*** REVISIONS 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 AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA. (W/H/S/PT) ASTM A653 GRADE 40/50 (W/ K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF 11-11-2002 SEC. 3. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE TRUSS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE TRUSS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE TRUSS THROUGHOUT CONSTRUCTION.



TC LL	20.0 PSF	REF R487 -- 16264
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUR487 05266072
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEQN - 12333
DUR. FAC.	1.25	

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

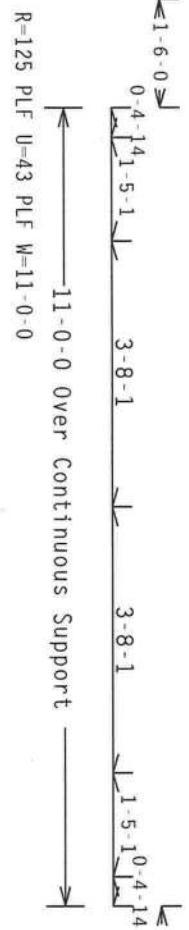
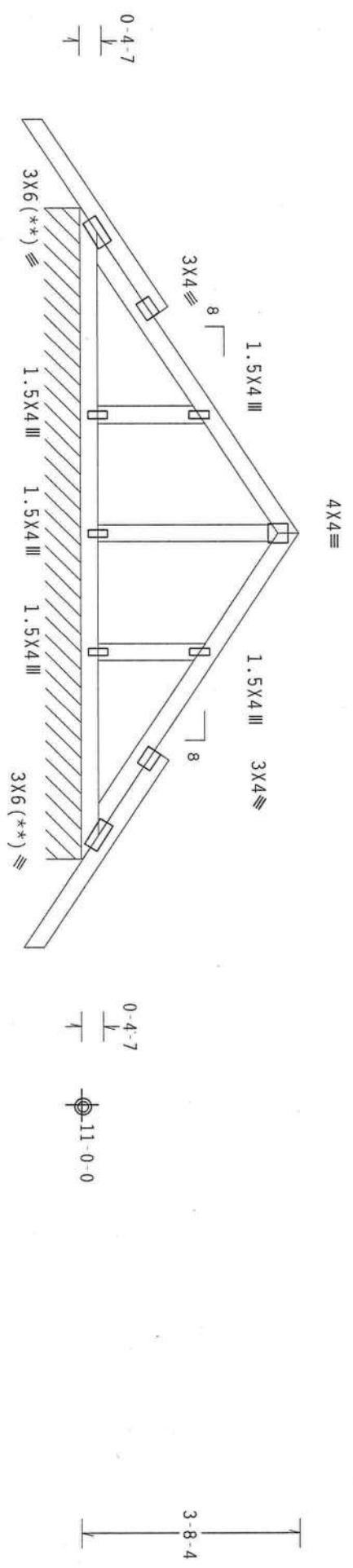
**SPECIAL LOADS**

TC - From	82 PLF at -1.50 to	82 PLF at 12.50
BC - From	4 PLF at -1.50 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 11.00
BC - From	4 PLF at 11.00 to	4 PLF at 12.50

(\*\*) Plate relocated as shown.

110 mph wind, 12.53 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

See DWGS A11015EC1103 & GBLLETIN0405 for more requirements.  
 Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI Design Cr't: TPI-1995(STD)/FBC 7.04.08.00 QTY: 1

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDORF DR., SUITE 200, MADISON, WI 53719) AND NITA (WOOD TRUSS COUNCIL OF AMERICA, 6200 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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OR TRUSS DESIGN CONFORMS HAVE MADE THE CONTRACTOR RESPONSIBLE FOR THE DESIGN. THE CONTRACTOR SHALL APPLY TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1006-2. ANY INSPECTION OF TRUSS FOLLOWED BY (1) SHALL BE PER AMEA AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE CONTRACTOR AND USE OF THIS DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR.



TC LL	20.0 PSF	REF R487 - 16265
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266106
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 12329
DUR.FAC.	1.25	

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 1950 Marley Drive

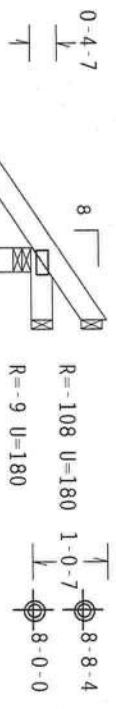
Scale = .375" / Ft.



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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 8.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



1-6-0  
1-0-0 Over 3 Supports

R=294 U=180 W=4"

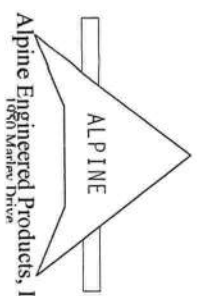
PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

QTY:10 FL/-/3/-/R/-

Scale = .375" / Ft.



**ALPINE**  
Alpine Engineered Products, Inc.  
1650 Marlow Drive  
Madison, WI 53719

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 589 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, BRACING, INSTALLING AND BRACING THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, BRACING, INSTALLING AND BRACING THE TRUSS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE DESIGN OR FABRICATING, BRACING, INSTALLING AND BRACING THE TRUSS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE DESIGN OR FABRICATING, BRACING, INSTALLING AND BRACING THE TRUSS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE DESIGN OR FABRICATING, BRACING, INSTALLING AND BRACING THE TRUSS.

DESIGN CONFORMS WITH APPLIED CODES: PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2003 EDITION, AS AMENDED BY AREA AND TPI. APPLY 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. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE DESIGN OR FABRICATING, BRACING, INSTALLING AND BRACING THE TRUSS.



TC LL	20.0 PSF	REF R487--	16267
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCSR487 05266124
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT. LD.	40.0 PSF	SEQN-	5849
DUR. FAC.	1.25		

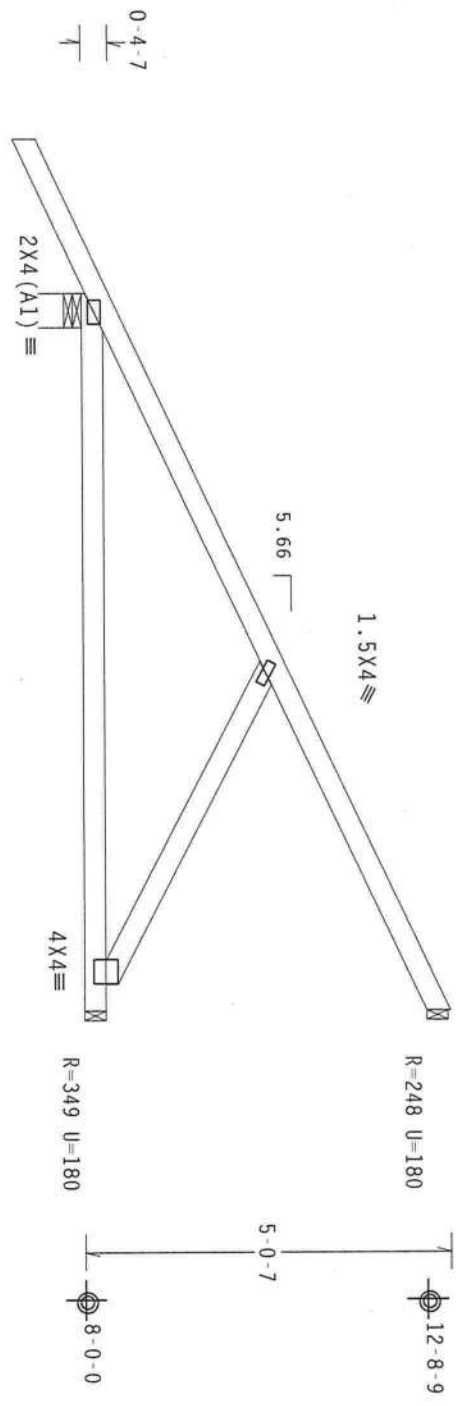
Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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/360 live and L/240 total load.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.080

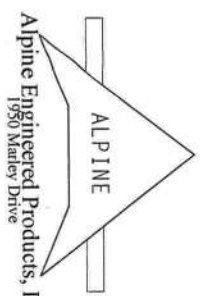
QTY:3

FL/-/3/-/R/-

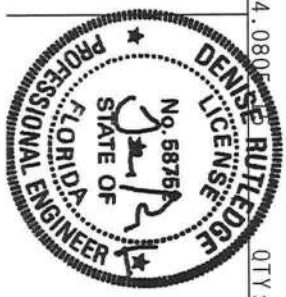
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS FABRICTION, 588 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WPCA (WOOD TRUSS COUNCIL OF AMERICA, 6800 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 THE CONTRACTOR'S DESIGN. ANY FAILURE TO BUILD THE TRUSS COMPONENTS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S) ASTM A653 GRADE 40/60 (W. K/N/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



Alpine Engineered Products, Inc.  
 1950 Marley Drive



TC LL	20.0 PSF	REF R487--	16268
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266107
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEON-	5866
DUR.FAC.	1.25		

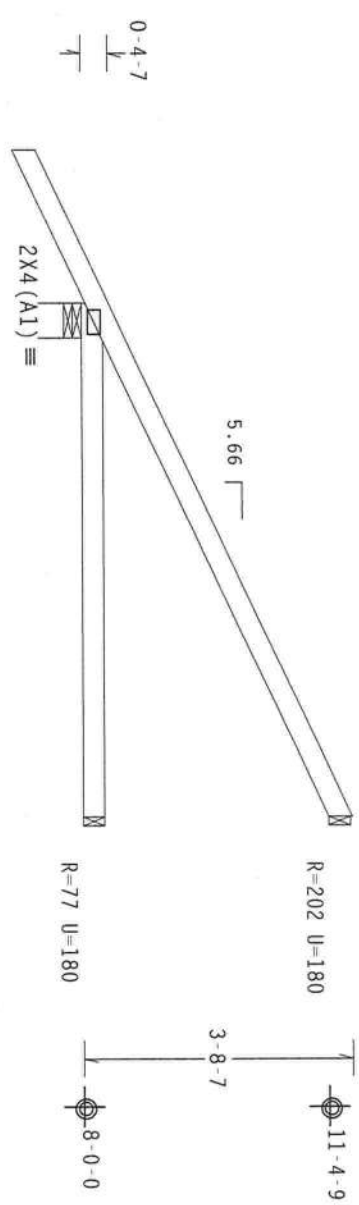
Top Chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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/360 live and L/240 total load.



7-0-14 Over 3 Supports  
2-1-7  
R-302 U=180 W=5.657"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

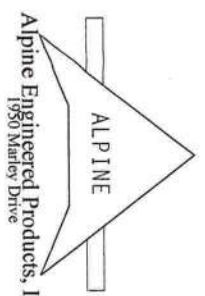
7.04.0805

QTY: 2 FL/-/3/-/1-/R/-

Scale = .375"/Ft.

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 883 DUNBAR RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6800 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 BE RESPONSIBLE FOR THE DESIGNER'S DESIGN. THE DESIGNER'S DESIGN SHALL BE THE BASIS FOR THE CONTRACTOR'S FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ARMY) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA. (W/H/S) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS BRACING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER SHOWN.



Alpine Engineered Products, Inc.  
1950 Marney Drive

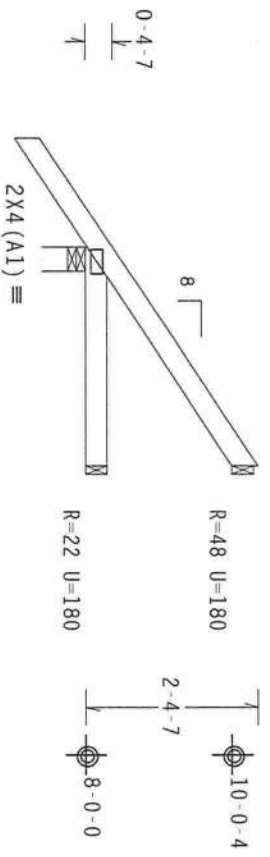


TC LL	20.0 PSF	REF R487-- 16269
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266108
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 5870
DUR.FAC.	1.25	

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 8.87 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



3-4-14 2-7-2  
3-0-0 Over 3 Supports  
R=266 U=180 W=4"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

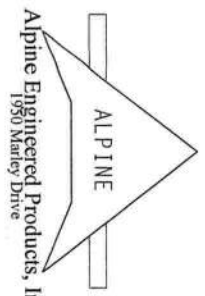
7.04.080

QTY: 10 FL/-/3/-/R/-

Scale = .375"/Ft.

**\*\*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, 593 DUNSTON 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 CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORDS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR ANY DEFLECTION 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 AERAI AND TPI. ALPINE 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 ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



Alpine Engineered Products, Inc.  
1950 Marley Drive

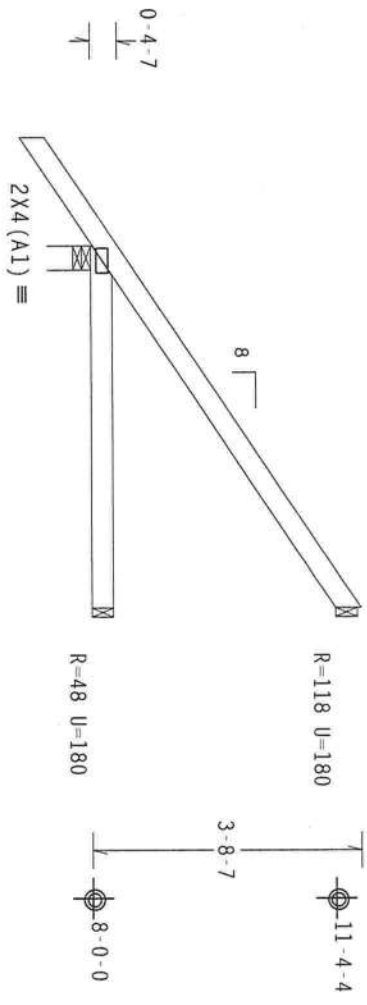


TC LL	20.0 PSF	REF	R487--	16270
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266074
BC LL	0.0 PSF	HC-ENG	JB/ADR	*
TOT.LD.	40.0 PSF	SEQN-	5855	
DUR.FAC.	1.25			

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 9.54 ft mean hgt, ASCE 7-98, 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.  
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→  
←5-0-0 Over 3 Supports →  
R=330 U=180 W=4"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

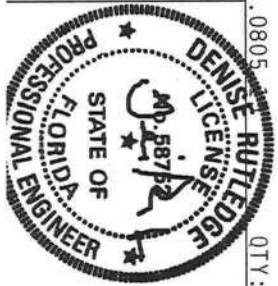
QTY: 10 FL/-/3/-/R/-

Scale = .375"/ft.

**\*\*WARNING\*\*** BRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDORF 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 EVALUATION FROM THIS DESIGN. INSTALLING & BRACING OF TRUSSES MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE NATIONAL DESIGN SPEC. BY AREA) AND TPI. TRUSSES AND BRUSSES WILL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/10GA. (W, H/S/R) ASTM A653 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABLE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE USER.



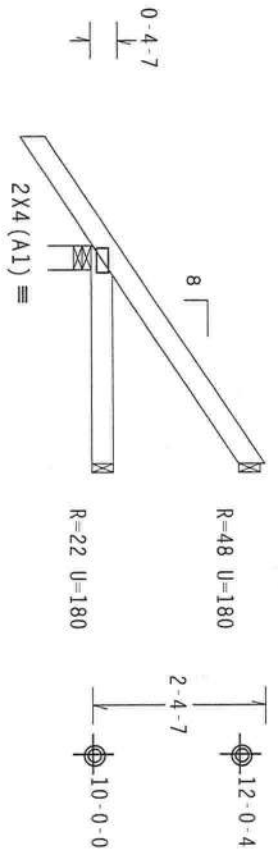
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TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266109
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	5859
DUR.FAC.	1.25		

Alpine Engineered Products, Inc.  
1950 Marley Drive

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 10.87 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



1-6-0  
3-0-0 Over 3 Supports  
R=266 U=180 W=4"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

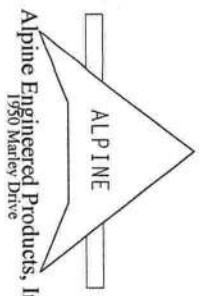
7.04.0805

QTY: 5 FL/-/3/-/R/-

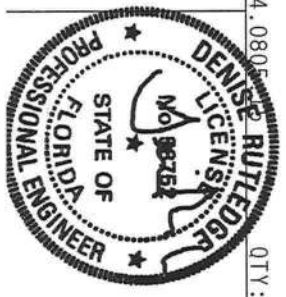
Scale = .375" /ft.

**\*\*WARNING\*\*** BRUSSES 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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTA (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 DELAYS OR DAMAGES TO THE PROJECT CAUSED BY THE CONTRACTOR'S FAILURE TO FOLLOW THE DESIGN AND INSTALLATION INSTRUCTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



Alpine Engineered Products, Inc.  
1950 Marley Drive

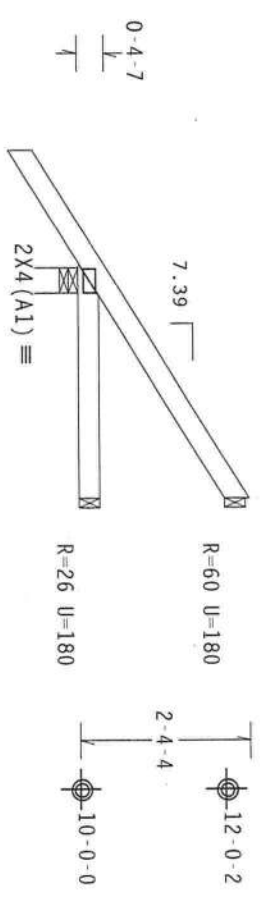


TC LL	20.0 PSF	REF R487--	16272
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCUSR487 0526110
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT.LD.	40.0 PSF	SEQN-	5875
DUR.FAC.	1.25		

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 10.87 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



← 1-7-0-0-5  
3-2-10 Over 3 Supports  
R=274 U=180 W=4.33"

PLT TYP. Wave TPI

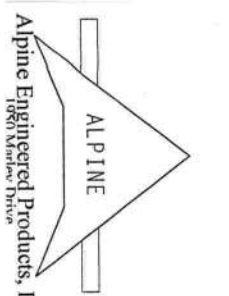
Design Crit: TPI-1995(STD)/FBC

7.04.080

QTY: 1

FL/-/3/-/R/-

Scale = .375"/ft.



**ALPINE Engineered Products, Inc.**  
1650 Marlow Drive  
Farmingdale, NY 11737  
Tel: 631-253-8800  
Fax: 631-253-8801  
www.alpineeng.com

**\*\*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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WPCA (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. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND TPI SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE 2003 INTERNATIONAL RESIDENTIAL CODE BOARDS (IRC) AND THE 2003 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2006 AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) AND THE 2006 AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) AND THE 2006 AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). APPLY TO THE CONTRACTOR FOR THE LOCATION OF THE 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 TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE TRUSS COMPONENT.



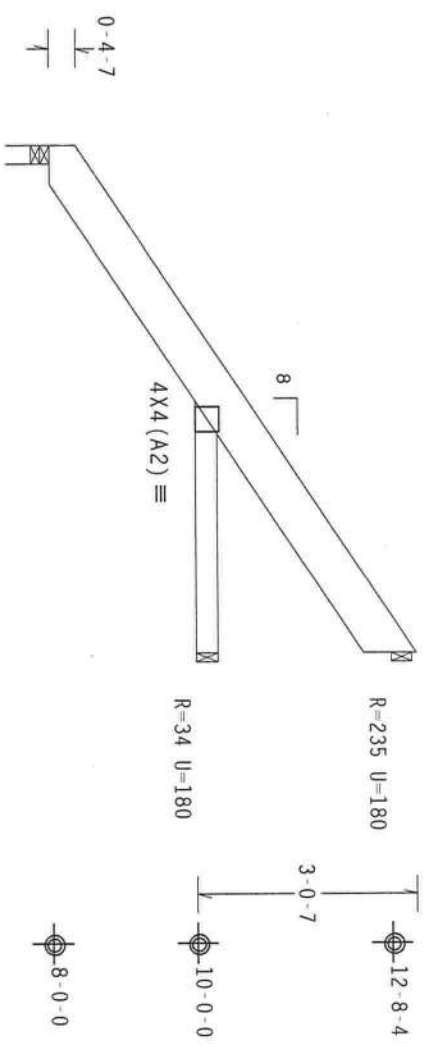
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TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05266111
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT. LD.	40.0 PSF	SEQN-	5882
DUR. FAC.	1.25		

op chord 2x8 SP SS  
ot chord 2x4 SP #2 Dense

effecton meets L/360 Tive and L/240 total load.

110 mph wind, 10.70 ft mean hgt, ASCE 7-98, 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.

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.



3-6-6  
7-0-0 Over 3 Supports  
R=290 U=180 W=3"

LT TYP. Wave TPI

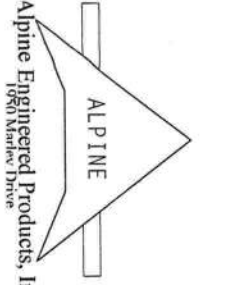
Design Crit: TPI-1995(STD)/FBC

7.04.0805

QTY:3

FL/-/3/-/R/-

Scale = .375" /ft.



**ALPINE ENGINEERED PRODUCTS, INC.**  
150 Markov Drive  
Madison, WI 53719

**WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONGORIO DR., SUITE 200, MADISON, WI 53719) AND WCCA (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 BE ADVISED THROUGH IN CONFORMANCE WITH TPI. PROVIDE TO THE CONTRACTOR, MANUFACTURER, INSTALLER AND TPI OF THE TRUSS DESIGN DRAWINGS AND SPECIFICATIONS. DESIGN CONDITIONS TAKE MADE OF 20/18/16GA (K/4/S/3) ASTM A653 GRADE 40/60 (K/4/S/3) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS END. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNE X AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE CREDIBILITY AND USE OF THIS DOCUMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.



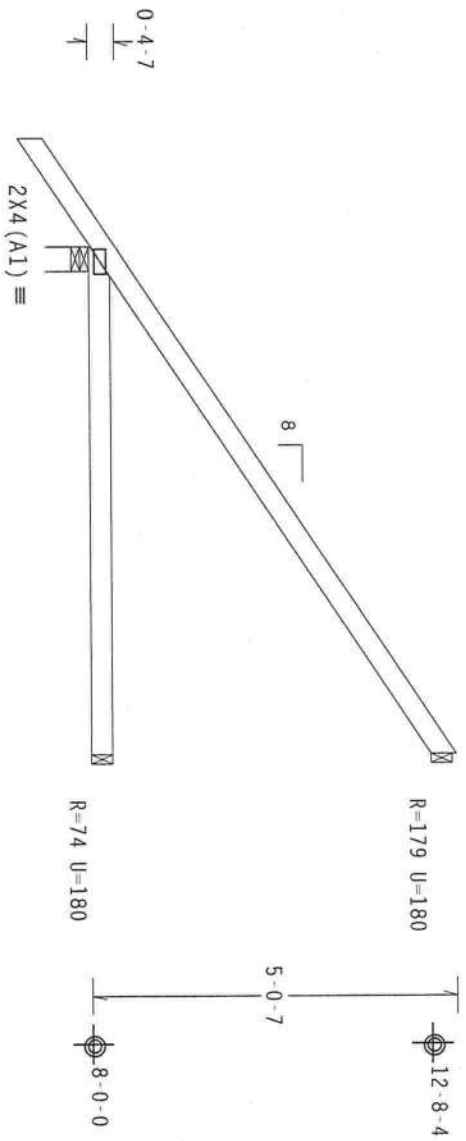
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TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266112
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 5886
DUR.FAC.	1.25	

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 10.20 ft mean hgt, ASCE 7-98, 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.

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



7-0-0 Over 3 Supports

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

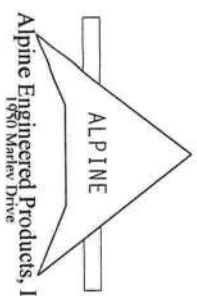
7.04.0805

QTY:35 FL/-/3/-/R/-

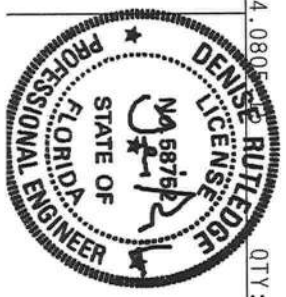
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNN RD., 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 DETAILING FROM THIS DESIGN. CALLING & BRACING OF TRUSSES IN COMBINATION WITH CEILING PROVIDERS OF NON-TRADITIONAL DESIGN SPEC. BY AERAAV AND TPI. ALPINE DESIGN OR PLATES ARE MADE OF 20/18/16GA. (U/H/S/S) ASTM A653 GRADE 40/60 (H, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE USER.



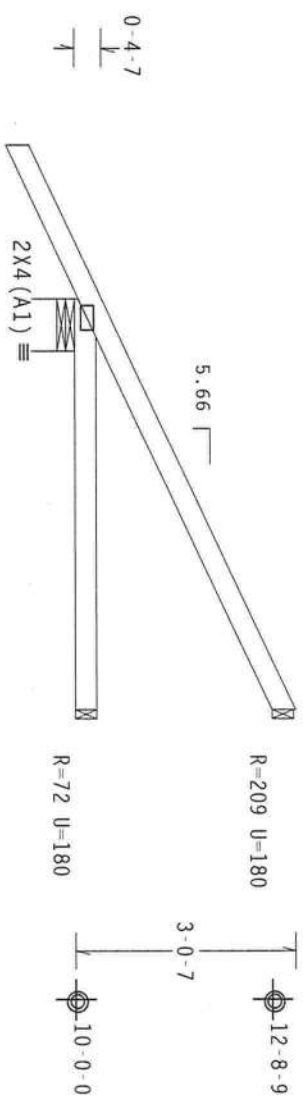
Alpine Engineered Products, Inc.  
1650 Marlev Drive



TC LL	20.0 PSF	REF R487--	16275
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05266113
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT.LD.	40.0 PSF	SEQN-	5842
DUR.FAC.	1.25		

op chord 2x4 SP #2 Dense  
 ot chord 2x4 SP #2 Dense  
 10 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located  
 nywhere in roof, CAT II, EXP B, Wind TC DL=5.0 psf, Wind BC DL=5.0  
 sf.  
 deflection meets L/360 live and L/240 total load.

SPECIAL LOADS  
 -----(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 60 PLF at -2.12 to 60 PLF at 5.66  
 BC - From 4 PLF at -2.12 to 4 PLF at 0.00  
 PL - From 20 PLF at 0.00 to 20 PLF at 5.66  
 PLB - 180 LB Conc. Load at (2.95,11.72)  
 PLB - 24 LB Conc. Load at (2.95,10.04)  
 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.



←-2-1-7-→  
 ←-5-7-14 Over 3 Supports →  
 R=511 U=246 W=8.485"

LT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.080 QTY:1 FL/-/3/-/R/- Scale = .375" /ft.

**\*\*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 DUNDURLO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 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 SHALL BE RESPONSIBLE FOR THE FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. TRUSSES CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASI AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA. (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 180A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AIA/ASI OF TPI-2002 SEC.3.3. A SEAL ON THIS BRACING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



TC LL	20.0 PSF	REF R487-- 16276
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266114
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN - 5921
DUR.FAC.	1.25	

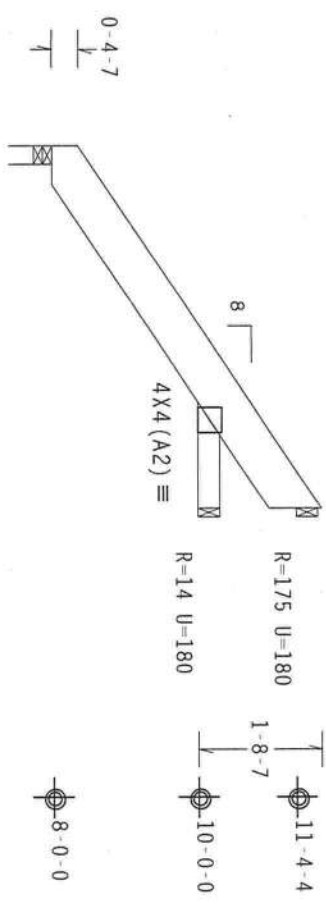
ALPINE  
 Alpine Engineered Products, Inc.  
 1950 Mabey Drive

op chord 2x8 SP SS  
 of chord 2x4 SP #2 Dense

reflection meets L/360 live and L/240 total load.

110 mph wind, 10.04 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



3-6-6  
 5-0-0 Over 3 Supports  
 R=211 U=180 W=3"

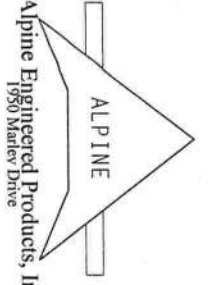
LT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0805

QTY:1 FL/-/3/-/R/-

Scale = .375" / Ft.



**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAIL, FABRICATION, SHIPPING, INSTALLING AND BRACING. REFER TO RCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ORFORD 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\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAIL, FABRICATION, SHIPPING, INSTALLING AND BRACING. REFER TO RCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ORFORD 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 DETAIL, FABRICATION, SHIPPING, INSTALLING AND BRACING. REFER TO RCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ORFORD 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-- 16277
TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266115
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEQN- 5913
DUR. FAC.	1.25	

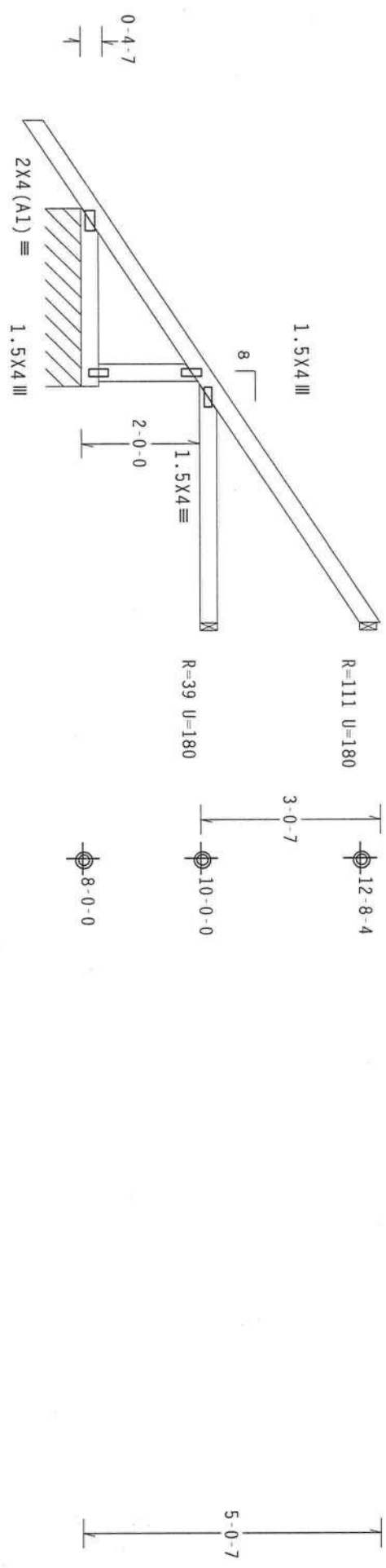
Alpine Engineered Products, Inc.  
 1950 Marley Drive

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 10.20 ft mean hgt, ASCE 7-98, 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.

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=169 PLF U=60 PLF W=3-0-0

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

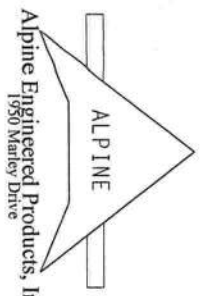
7.04.08

QTY: 1 FL/-/3/-/R/-

Scale = .375" / Ft.

**\*\*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, 563 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719 AND WTC (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 THE DESIGN OR CONSTRUCTION OF THE TRUSS OR FOR THE DESIGN CONTRACTOR'S FAILURE TO FOLLOW THE DESIGN OR FOR THE DESIGN CONTRACTOR'S FAILURE TO FOLLOW THE DESIGN. DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&A) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA. (4/4.5/5/6) ASTM A553 GRADE 40/60 (4, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



Alpine Engineered Products, Inc.  
 1950 Marley Drive



TC LL	20.0 PSF	REF R487--	16278
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266116
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	12315
DUR.FAC.	1.25		

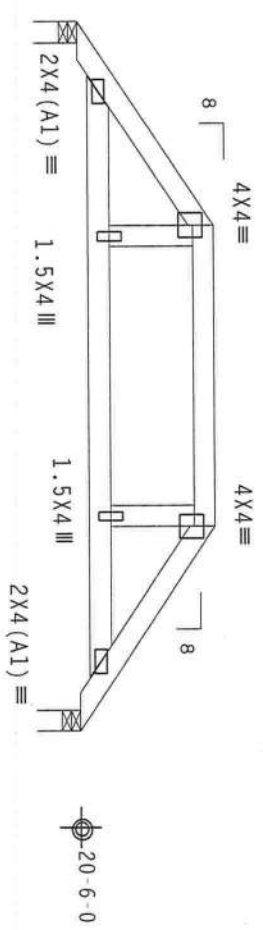
(5-406-ISAAC CONSTRUCTION / CALLAWAY LOT 102 - H21AP)

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

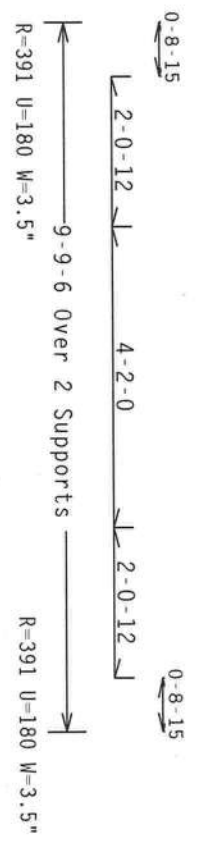
110 mph wind, 21.44 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind  
 BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load.

REFER TO DWG PIGBACK80204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO  
 BE BRACED @ 24" O.C., UNLESS OTHERWISE SPECIFIED



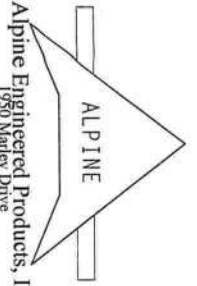
1-8-11



PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FBC 7.04.080 QTY: 1 FL/-/3/-/R/- Scale = .375"/ft.

**\*\*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, 503 DUNFORD DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS CONFLICT OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING OR CONSTRUCTION ERRORS. ANY FAILURE OF BUILDING THE TRUSS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND BRACING OF THE TRUSS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AREA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA. (W./H./S.) ASTM A653 GRADE 40/60 (W./H./S.) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN.



Alpine Engineered Products, Inc.  
 1950 Nantley Drive



TC LL	20.0 PSF	REF R487--	16279
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266117
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	12407
DUR.FAC.	1.25		

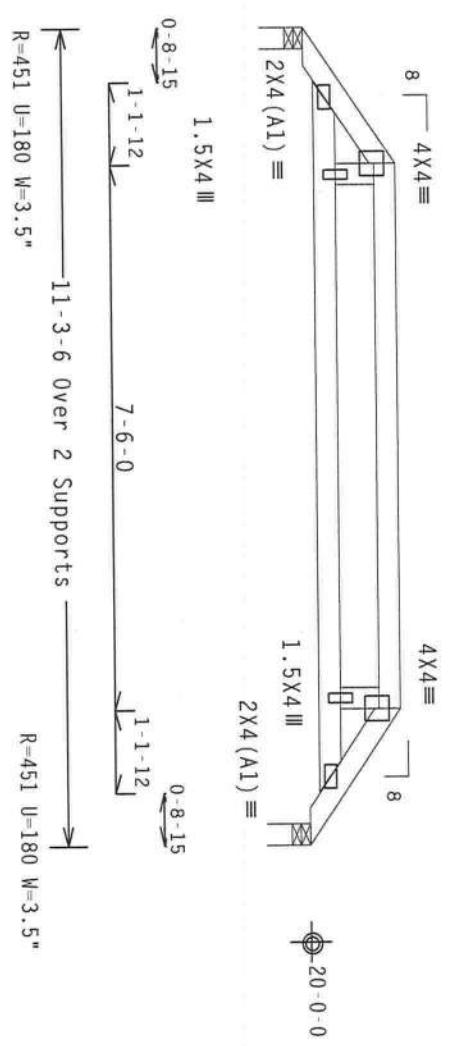
(5-406-ISAAC CONSTRUCTION / CALLAWAY LOT 102 - APP)

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

110 mph wind, 20.63 ft mean hgt, ASCE 7-98, 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/360 Tive and L/240 total load.

REFER TO DWG PIGBACKB0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO  
 BE BRACED @ 24" O.C., UNLESS OTHERWISE SPECIFIED



PLT TYP. Wave TPI

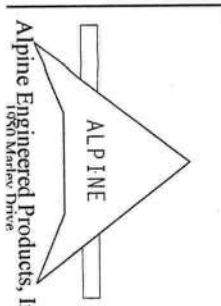
Design Crit: TPI-1995(STD)/FBC

7.04.088

QTY: 1

FL/-/3/-/1/R/-

Scale = .375"/ft.



Alpine Engineered Products, Inc.  
 1050 Marlowe Drive  
 \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
 REFER TO BC#1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583  
 B'ONGRIFD DR., SUITE 200, MAJORITY, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN,  
 MAJORITY, 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 THE DESIGN. ANY FAILURE TO BUILD THE  
 TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLER. INSTALLING & BRACING OF TRUSSES-  
 DESIGN CONCEPTS ARE MADE OF 20/18/16GA. (4.1/5/2X) ASH A653 GRADE 40/60 (4.1/4.5) GALV. STEEL. APPLY 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 ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS  
 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
 THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

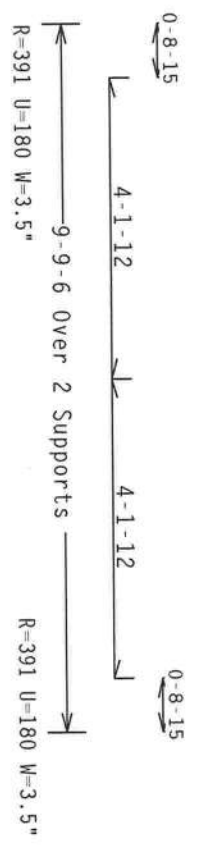
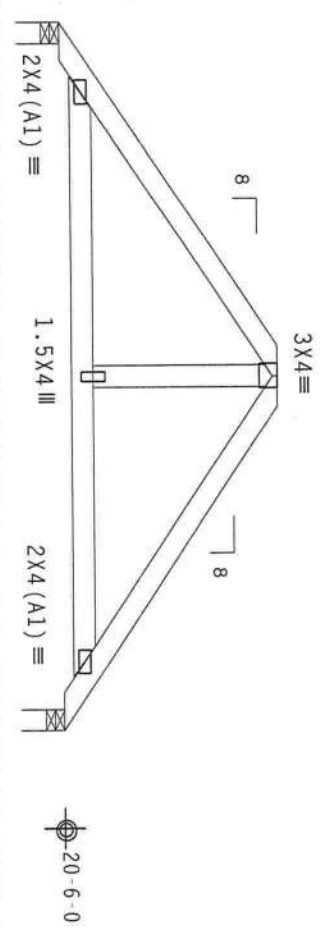


TC LL	20.0 PSF	REF	R487--	16280
TC DL	10.0 PSF	DATE	09/23/05	
BC DL	10.0 PSF	DRW	HCUSR487	05266118
BC LL	0.0 PSF	HC-ENG	JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	12477	
DUR.FAC.	1.25			

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

110 mph wind, 21.99 ft mean hgt, ASCE 7-98, 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/360 live and L/240 total load.  
 REFER TO DWG PIGGYBACK0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO  
 BE BRACED @ 24" O.C., UNLESS OTHERWISE SPECIFIED



2-10-1

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

7.04.0800

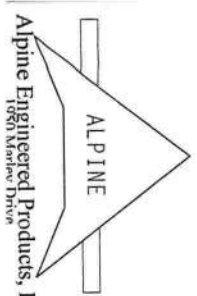
QTY: 1

FL/-/3/-/1-/R/-

Scale = .375" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXPERT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 568 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 DETAILING FROM THIS DESIGNING & BRACING OF TRUSSES. TRUSSES IN CONFORMANCE WITH THE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE DESIGN CONDITIONS ARE MADE OF 30D/18/16GA (W/H/S/L) ASTM A653 GRADE 40/66 (W, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE CREATIVITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



Alpine Engineered Products, Inc.  
 1550 Marlow Drive



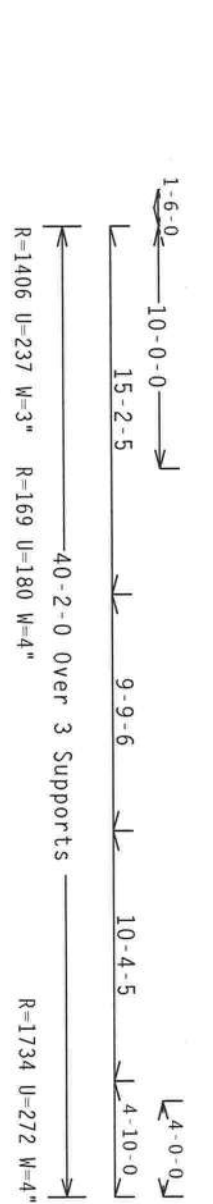
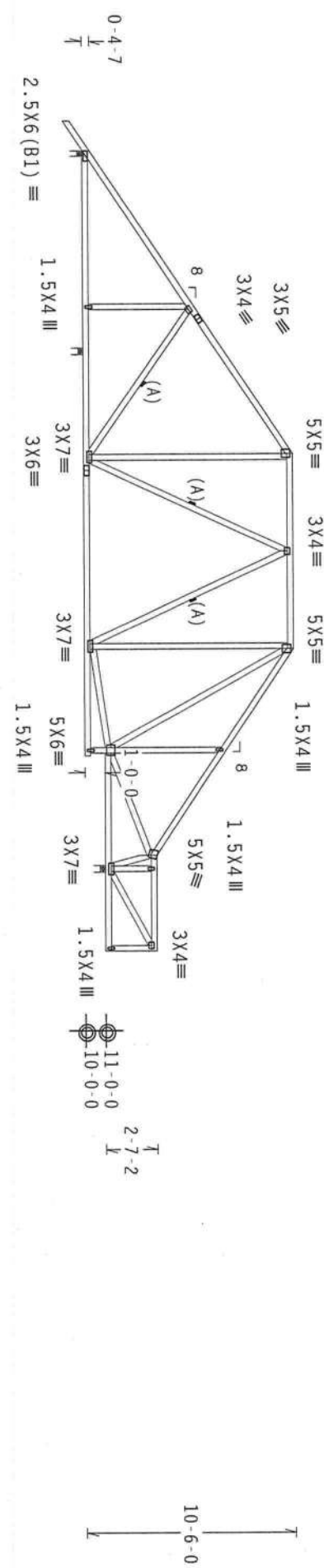
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BC DL	10.0 PSF	DRW HCUR487 05266125
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT. LD.	40.0 PSF	SEON- 12502
DUR. FAC.	1.25	

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

110 mph wind, 14.94 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind  
 BC DL=5.0 psf.

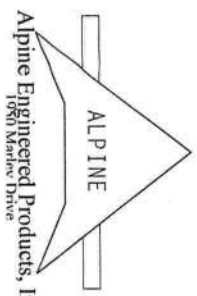
(A) Continuous lateral bracing equally spaced on member.  
 Deflection meets L/360 live and L/240 total load.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave TPI Design Crit: TPI-1995 (STD)/FBC 7.04.0805 QTY: 1 FL/-/3/-/R/- Scale = .125"/ft.

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



**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO FOLLOW THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. INSTALLATION OF TRUSSES SHALL BE IN ACCORDANCE WITH THE DESIGN. DESIGN CONFORMS WITH MODEL CODES: BOULDER COUNTY (1998), COLORADO (1998), ILLINOIS (1998), INDIANA (1998), IOWA (1998), KANSAS (1998), MICHIGAN (1998), MINNESOTA (1998), MISSOURI (1998), NEBRASKA (1998), NEVADA (1998), NEW YORK (1998), NORTH CAROLINA (1998), NORTH DAKOTA (1998), OHIO (1998), OKLAHOMA (1998), PENNSYLVANIA (1998), SOUTH CAROLINA (1998), SOUTH DAKOTA (1998), TEXAS (1998), UTAH (1998), VIRGINIA (1998), WISCONSIN (1998), WYOMING (1998). ANY INSPECTION OF TRUSSES AND TRUSS PLATES TO EXISTING STRUCTURES SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER. A SEAL ON THIS DRAWING IS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES AND TRUSS PLATES TO EXISTING STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES AND TRUSS PLATES TO EXISTING STRUCTURES.



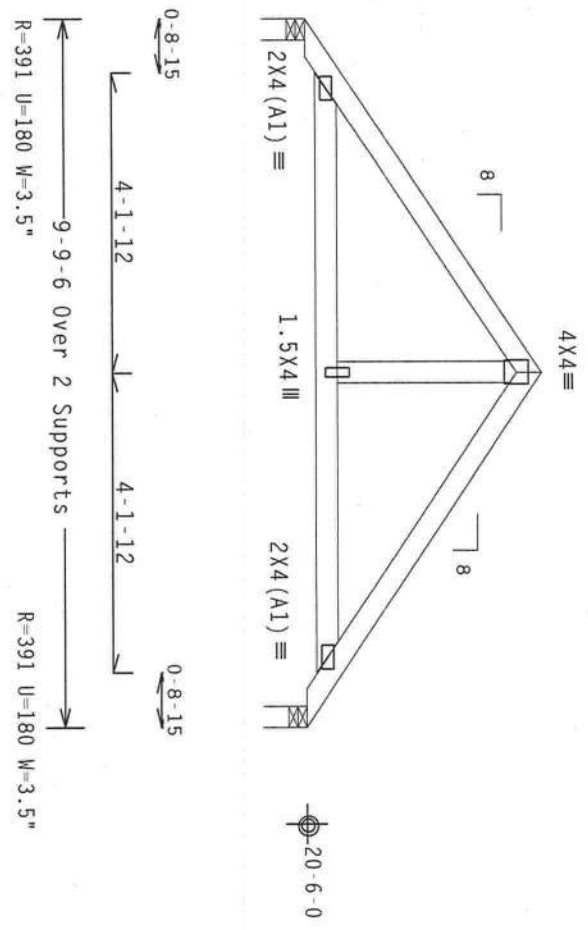
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TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW HCUSR487	05266119
BC LL	0.0 PSF	HC-ENG JB/ADR	
TOT.LD.	40.0 PSF	SEQN-	12540
DUR.FAC.	1.25		

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

110 mph wind, 22.13 ft mean hgt, ASCE 7-98, 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/360 live and L/240 total load.

REFER TO DWG PIGBACKR0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO  
 BE BRACED @ 24" O.C., UNLESS OTHERWISE SPECIFIED



PLT TYP. Wave TPI

Design Cmt: TPI-1995(STD)/FBC

7.04.0805

QTY: 5 FL/-/3/-/1/-/R/-

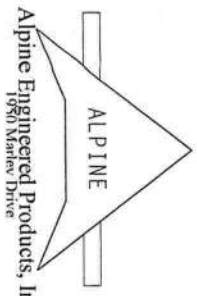
Scale = .375"/ft.

**\*\*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'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** 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 COMPONENTS HAVE MADE (CEN 20/19/1664 (CAJ/SX) ASTM A653 GRADE 40/60 (N, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWS BY (1) SHALL BE PER AMES A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE CONTRACTOR AND USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



TC LL	20.0 PSF	REF R487--	16283
TC DL	10.0 PSF	DATE	09/23/05
BC DL	10.0 PSF	DRW	HCUSR487 05266120
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT.LD.	40.0 PSF	SEQN-	12401
DUR.FAC.	1.25		



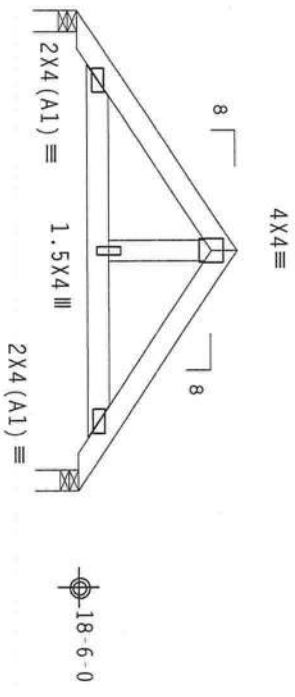
Alpine Engineered Products, Inc.  
 1950 Marlow Drive

406-ISAAC CONSTRUCTION / CALLAWAY LOT 102 - BP)  
 Top Chord 2x4 SP #2 Dense  
 Bottom Chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

110 mph wind, 19.60 ft mean hgt, ASCE 7-98, CLOSED bldg, not located  
 within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind  
 BC DL=5.0 psf.

Refer to DWG PIGBACK0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO  
 BE BRACED @ 24" O.C., UNLESS OTHERWISE SPECIFIED

Reaction meets L/360 live and L/240 total load.



6-7-6 Over 2 Supports  
 R=265 U=180 W=3.5"

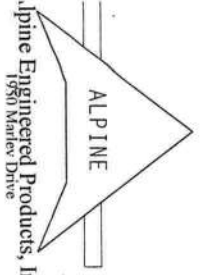
LT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

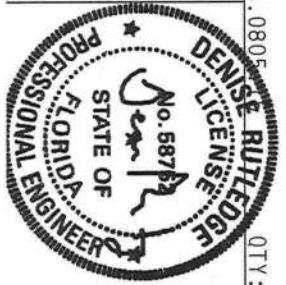
7.04.0805

QTY: 2 FL/-/3/-/1/-/1/-

Scale = .375"/ft.



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUTLER THE TRUSS IN CONFORMANCE WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT.



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TC DL	10.0 PSF	DATE 09/23/05
BC DL	10.0 PSF	DRW HCUSR487 05266121
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	40.0 PSF	SEQN- 5998
DUR.FAC.	1.25	



# 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.

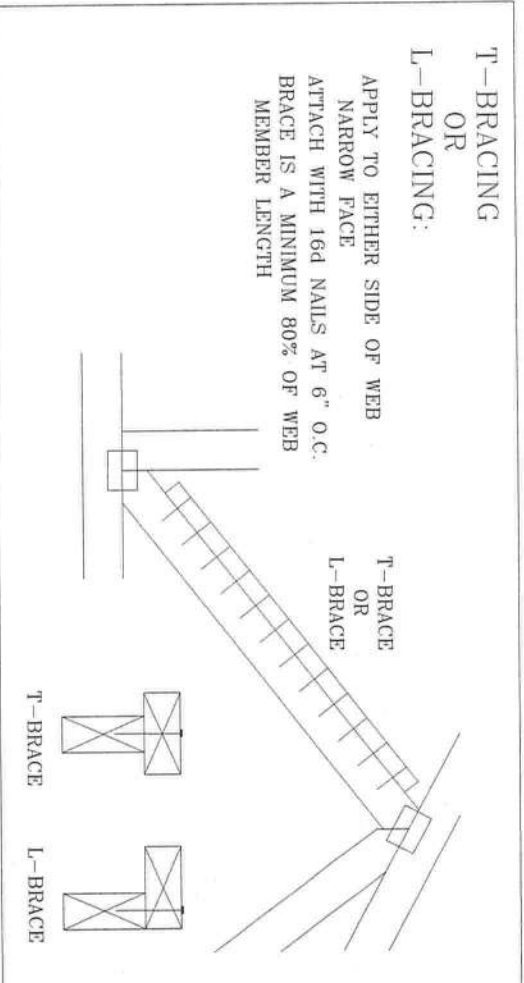
**NOTES:**

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 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(*)

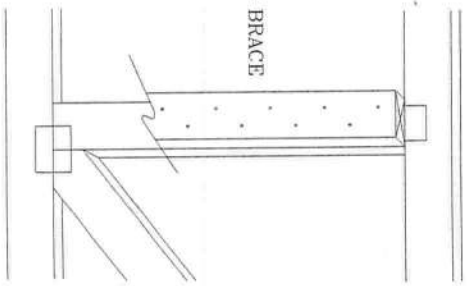
T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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



**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 579.6410

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
 POLIPRANO BEACH, FLORIDA

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE ROYAL SOCIETY OF ARCHITECTS, 6800 WHITEHALL ROAD, LONDON, ENGLAND) AND THE NATIONAL BUILDING CODE OF AMERICA, 6300 ENTERPRISE LN, HANSON, MD 21076 FOR THE LATEST REQUIREMENTS REGARDING THESE FUNCTIONS. UNLESS NOTED OTHERWISE, ALL TOP CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORDS 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 DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONCEPTS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR STEEL BUILDINGS AND THE ALPINE CONNECTIONS DESIGN GRADAR BY AEP&I AND TPL. ALPINE CONNECTION PLATES ARE MADE OF 100% STEEL UNLESS OTHERWISE INDICATED ON THIS DESIGN. USE THE INDICATED MATERIALS TO BE USED IN THIS DESIGN. UNLESS OTHERWISE INDICATED ON THIS DESIGN, USE THE 1-2000 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 CONTRACTOR. REF. ARCH 7001.1, CFF. 3

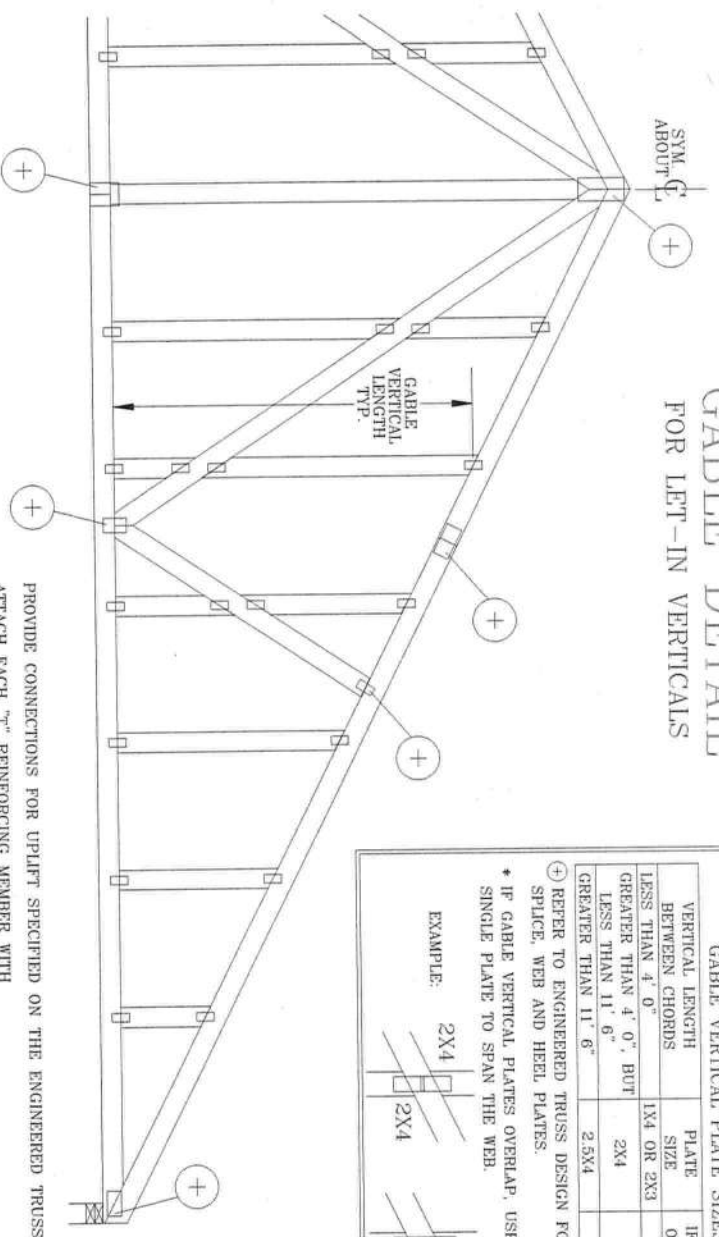


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			





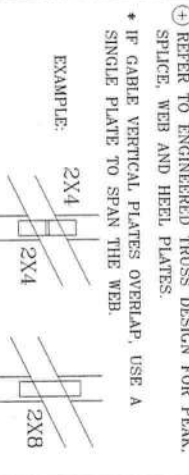
# GABLE DETAIL FOR LET-IN VERTICALS



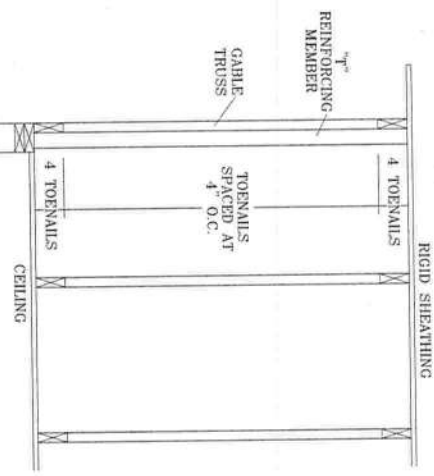
**GABLE VERTICAL PLATE SIZES**

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.



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN. ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS: 10d COMMON TOENAILS AT 4" O.C. PLUS (4) 16d COMMON TOENAILS IN TOP AND BOTTOM CHORD. GUN DRIVEN NAILS - 0.131" X 3". TOENAILS AT 4" O.C. PLUS (4) TOENAILS IN TOP AND BOTTOM CHORD.

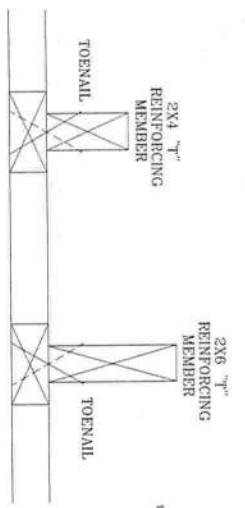
THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS  
 A11015EN1103, A10015EN1103, A08015EN1103, A07015EN1103  
 A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103  
 ASCE 7-98 GABLE DETAIL DRAWINGS  
 A13015EC1103, A12015EC1103, A11015EC1103, A08515EC1103  
 A13030EC1103, A12030EC1103, A11030EC1103, A08530EC1103  
 SBCCI GABLE DETAIL DRAWINGS  
 S09015EN1103, S08015EN1103, S07015EN1103  
 S11015EN1103, S10015EN1103, S09030EN1103, S08030EN1103, S07030EN1103  
 S11030EN1103, S10030EN1103, S09030EN1103, S08030EN1103, S07030EN1103

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

TO CONVERT FROM "T" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "T" 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 "T" BRACE LENGTH = 6' 7"  
 MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH  
 1.10 x 6' 7" = 7' 3"

THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA

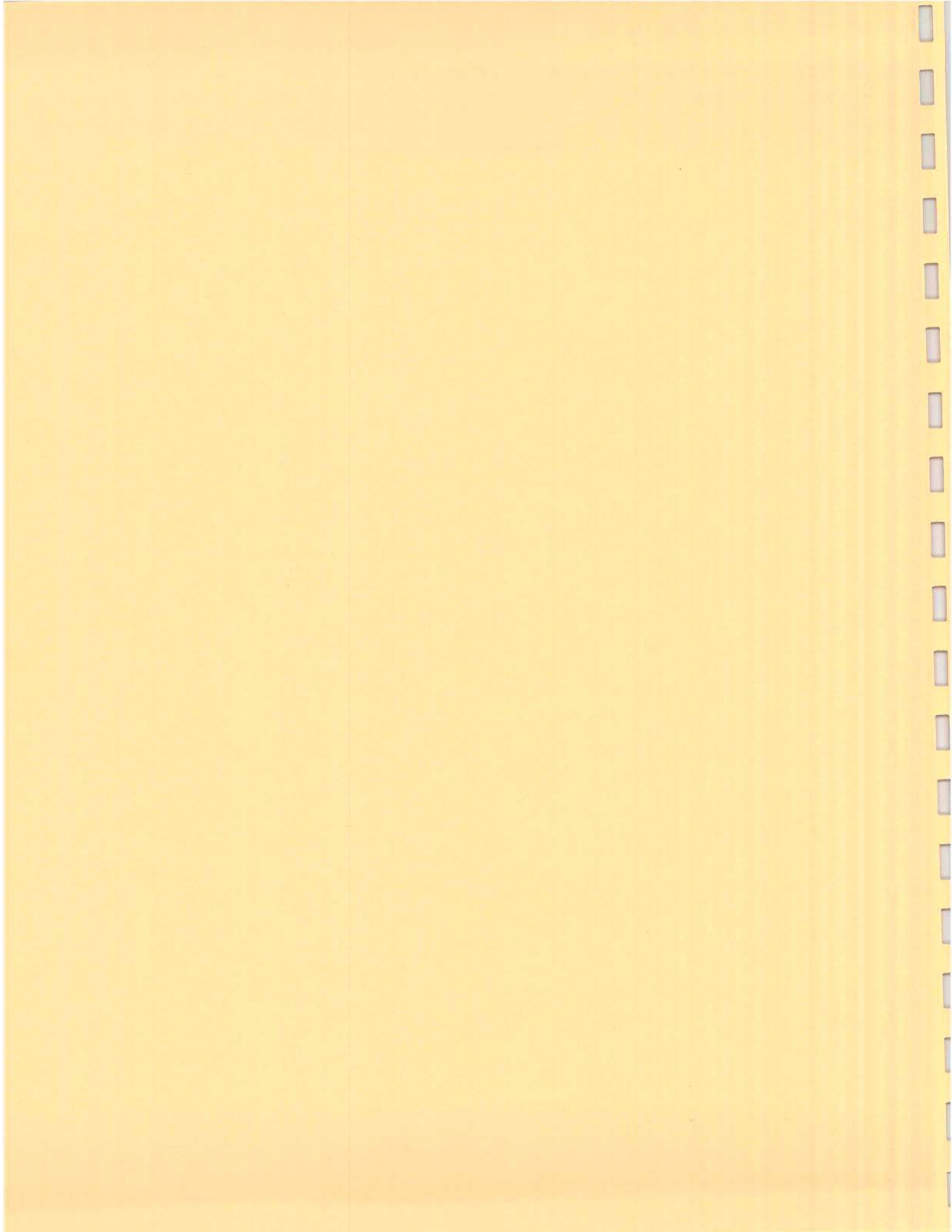
**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-1-03 (BUILDING COMPONENT SAFETY INFORMATION), ALPINE TRUSS SYSTEMS TRUSS CONSTRUCTION MANUAL, 6200 ENTERPRISE, LINDSEY DRIVE, SUITE 200, POMPANO BEACH, FLORIDA 33062, TRUSS CONSTRUCTION MANUAL, 6200 ENTERPRISE, LINDSEY DRIVE, SUITE 200, POMPANO BEACH, FLORIDA 33062, TRUSS CONSTRUCTION MANUAL, 6200 ENTERPRISE, LINDSEY DRIVE, SUITE 200, POMPANO BEACH, FLORIDA 33062, TRUSS CONSTRUCTION MANUAL, 6200 ENTERPRISE, LINDSEY DRIVE, SUITE 200, POMPANO BEACH, FLORIDA 33062.

**\*\*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 THIS OR FABRICATING, HANDLING, SHIPPING, STORAGE, DESIGN, BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, AND ALL APPLICABLE ALPINE GABLE DETAIL DRAWINGS. DESIGN CONDUCTED BY ALPINE ENGINEERED PRODUCTS, INC. ALL DESIGN SPECIFICATIONS ARE SUBJECT TO THE DISCRETION OF ALPINE ENGINEERED PRODUCTS, INC. ALL DESIGN SPECIFICATIONS ARE SUBJECT TO THE DISCRETION OF ALPINE ENGINEERED PRODUCTS, INC. ALL DESIGN SPECIFICATIONS ARE SUBJECT TO THE DISCRETION OF ALPINE ENGINEERED PRODUCTS, INC. ALL DESIGN SPECIFICATIONS ARE SUBJECT TO THE DISCRETION OF ALPINE ENGINEERED PRODUCTS, INC.

**Denise Rutledge**  
 No. 58752  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

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

REF	LET-IN VERT
DATE	01/16/04
DRWG	GBLLETTIN1103
-ENG	DLJ/KAR



# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
 Florida Engineering Certificate of Authorization Number: 567  
 Florida Certificate of Product Approval # FL1999  
 Document ID: ISTR487-Z0311145834  
 Page 1 of 1

*Permit # 23980*

Anderson Truss Company  
 5-406- Isaac / Lot 102 Callaway

Truss Fabricator: Anderson Truss Company  
 Job Identification: 5-406- Isaac / Lot 102 Callaway  
 Truss Count: 9  
 Model Code: Florida Building Code  
 Truss Criteria: ANSI/TPI-1995(STD)/FBC  
 Engineering Software: Alpine Software, Version 7.22.  
 Structural Engineer of Record:  
 Address:  
 Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
 Floor - N/A  
 Wind - 110 MPH ASCE 7-98 - Closed

**Notes:**

- 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
- The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
- As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: BRCLBSUB

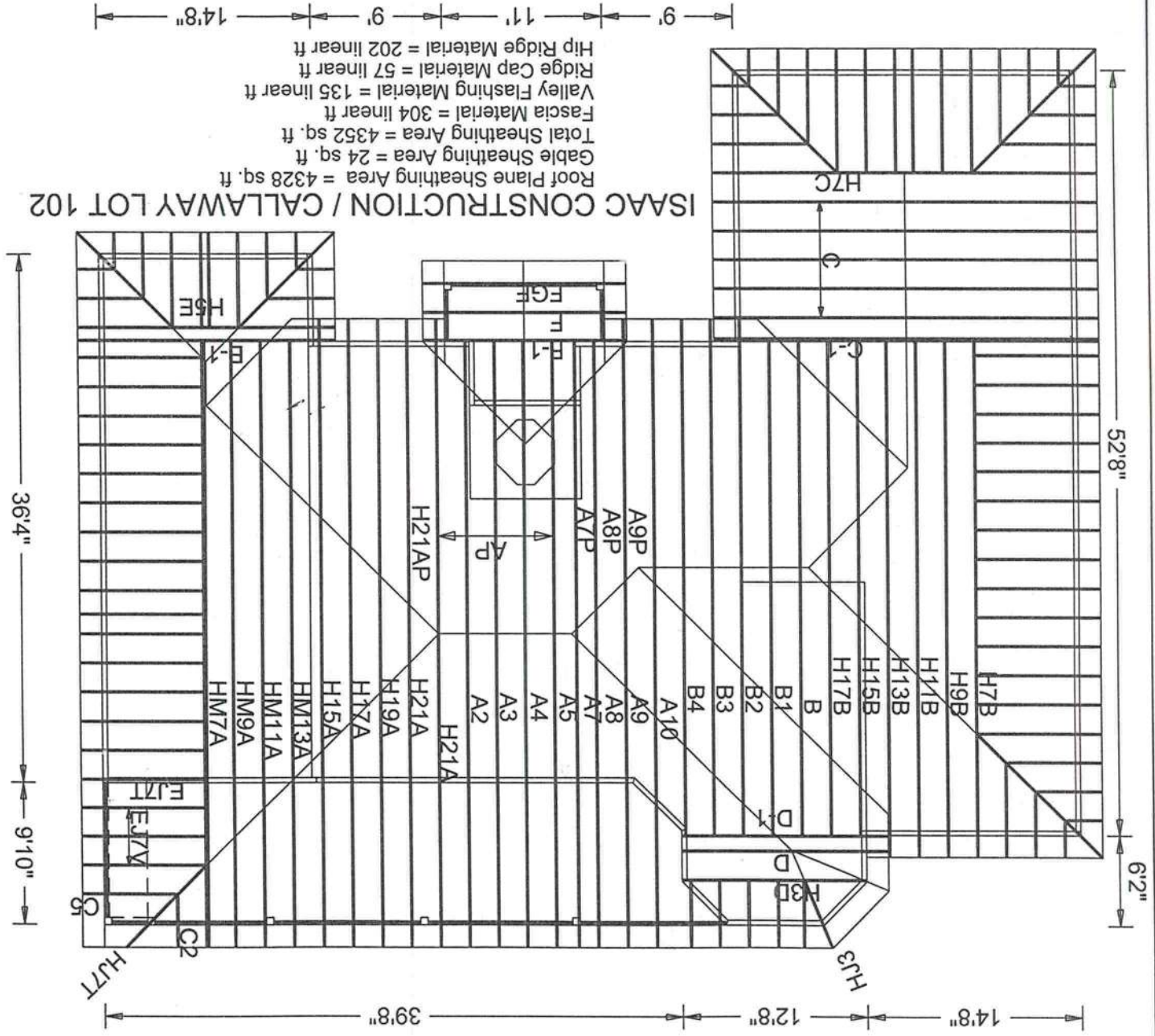
#	Ref	Description	Drawing#	Date
1	14131--H98		06011003	01/11/06
2	14132--H1B		06011004	01/11/06
3	14133--H7B		06011005	01/11/06
4	14134--EJ7T		06011006	01/11/06
5	14135--EJ7T1		06011007	01/11/06
6	14136--HJ7T		06011008	01/11/06
7	14137--CJ1		06011009	01/11/06
8	14138--J3T		06011010	01/11/06
9	14139--J5T		06011011	01/11/06



719-7143

Scale: 3/32" = 1'

ISAAC CONSTRUCTION / CALLAWAY LOT 102



- Roof Plane Sheathing Area = 4328 sq. ft.
- Gable Sheathing Area = 24 sq. ft.
- Total Sheathing Area = 4352 sq. ft.
- Fascia Material = 304 linear ft.
- Valley Flashing Material = 135 linear ft.
- Ridge Cap Material = 57 linear ft.
- Hip Ridge Material = 202 linear ft.

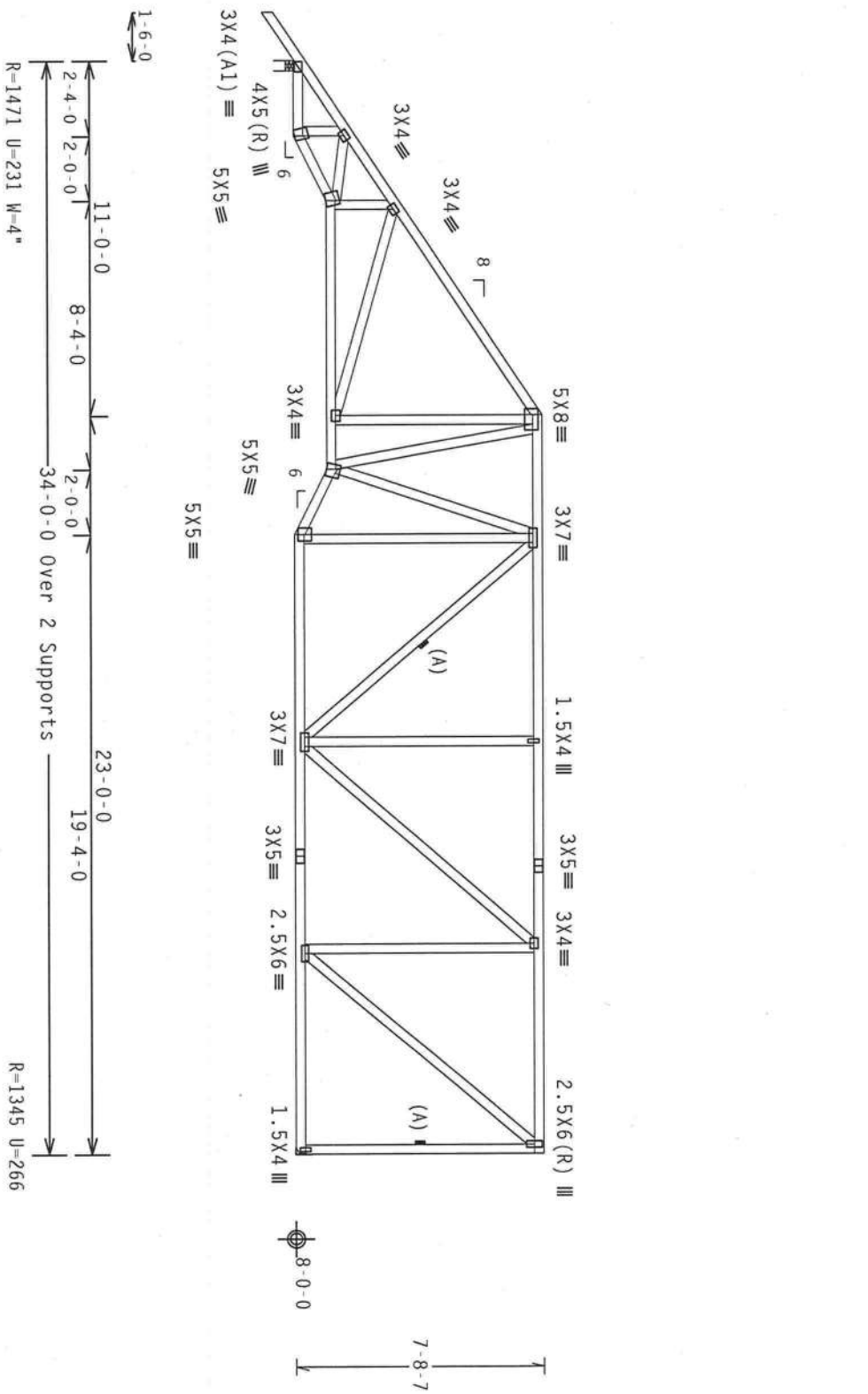


Top Chord 2x4 SP #2 Dense  
 Bot Chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.  
 Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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.

Right end vertical not exposed to wind pressure.



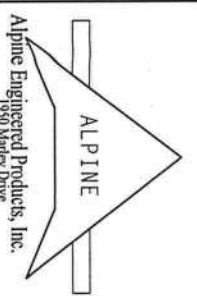
PLT TYP. Wave TPI

Design Crft: TPI-1995(STD)/FBC

7.22.11

Scale = .1875"/ft.

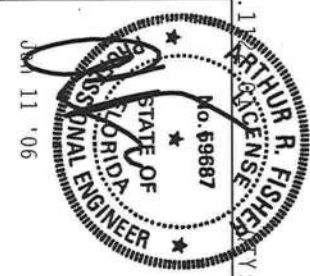
REF R487- 14132



Alpine Engineered Products, Inc.  
 1950 Marlen Drive

**\*\*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 0-DORFLO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 3200 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 THE 2003 INTERNATIONAL BUILDING CODE, OR 2006 INTERNATIONAL BUILDING CODES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 180A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN SOCIETY OF PROFESSIONAL ENGINEERS. A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT.



TC LL	20.0 PSF	REF R487- 14132
TC DL	10.0 PSF	DATE 01/11/06
BC DL	10.0 PSF	DRW HCUR487 06011004
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19579
DUR.FAC.	1.25	

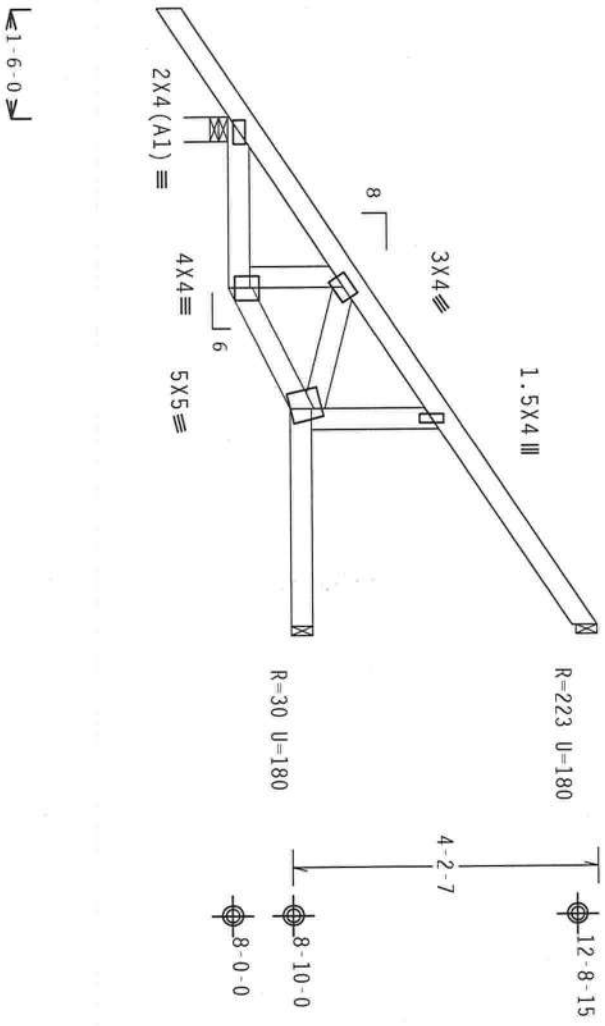




Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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.  
 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.



2-4-0 | 1-8-0 | 3-0-0  
 7-0-0 Over 3 Supports  
 R=403 U=180 W=4"

PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

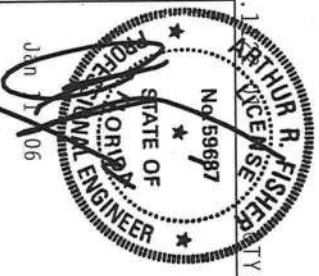
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FL/-/4/-/-/R/-

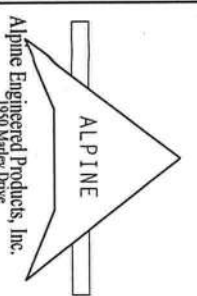
Scale = .375" / Ft.

**\*\*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, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 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 DETAILING, MODIFICATION, SHIPMENT, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 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 - 14135
TC DL	10.0 PSF	DATE 01/11/06
BC DL	10.0 PSF	DRW HCUSR487 06011007
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEON- 19613
DUR. FAC.	1.25	

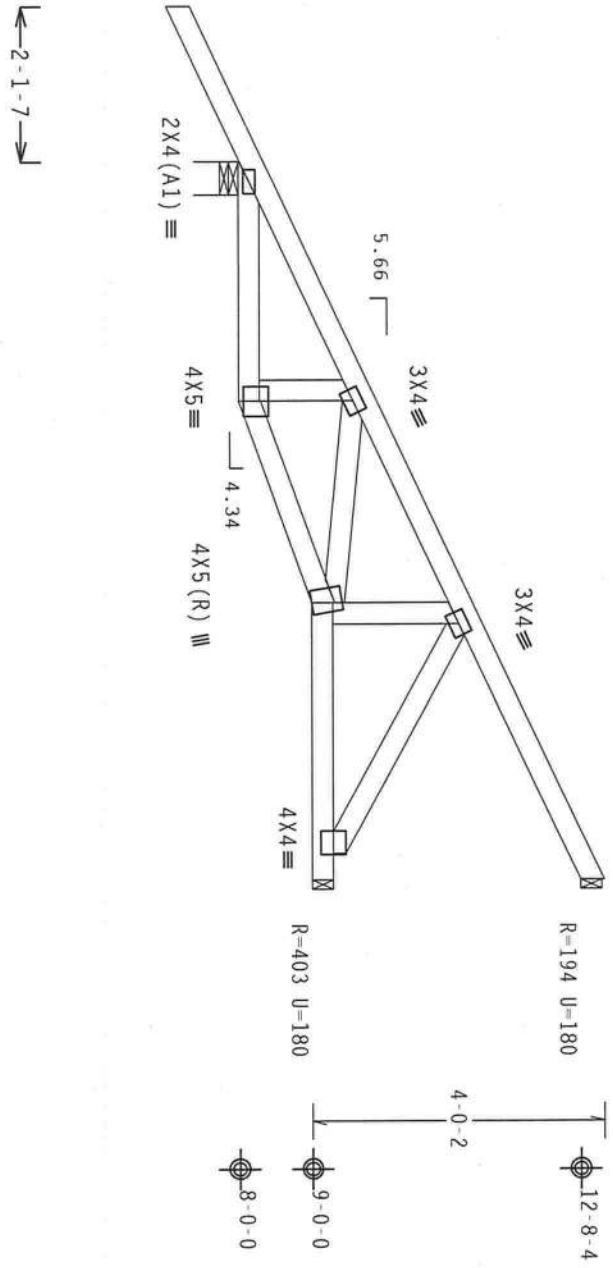


Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Hipjack supports 7-0-0 setback jacks with no webs.  
 Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



3-3-10      2-9-3      3-10-0  
 9-10-13 over 3 Supports  
 R-453 U=180 W=5.657"

PLT TYP. Wave TPI

Design Crt: TPI-1995(STD)/FBC

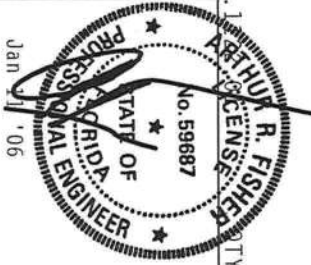
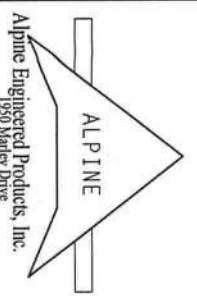
7.22.1

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

Scale = .375"/Ft.

**\*\*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 PONDFRID DR., SUITE 200, WAUWATON, WI 53719) AND WTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, WAUWATON, 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 OF BOLTED TRUSS CONNECTIONS OR MEMBER FAILURE, INCLUDING FAILURE OF MEMBER CONNECTIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIAL DESIGN SPEC. BY AFAPA) AND TPI. CONNECTOR PLATES ARE MADE OF 20/20/106A (4/4/5/2) ASTM A553 GRADE 40/60 (4, K1H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AFAPA AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.

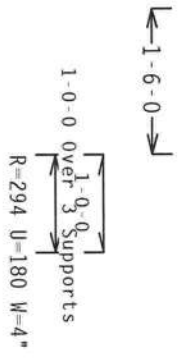
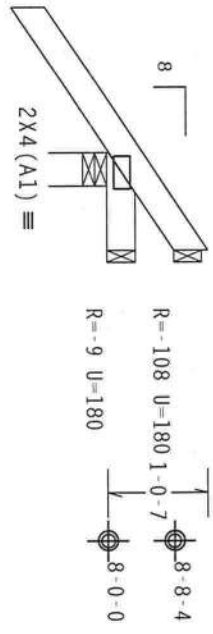


TC LL	20.0 PSF	REF R487--	14136
TC DL	10.0 PSF	DATE	01/11/06
BC DL	10.0 PSF	DRW HCUR487	06011008
BC LL	0.0 PSF	HC-ENG TCE/AF	
TOT.LD.	40.0 PSF	SEQN-	72529 REV
DUR.FAC.	1.25		

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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 8.20 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.



PLT TYP. Wave TPI

Design Crit: TPI-1995(STD)/FBC

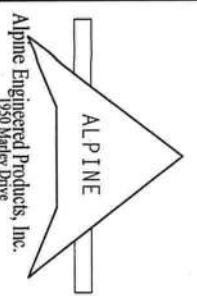
7.22.

QTY:10 FL/-/4/-/R/-

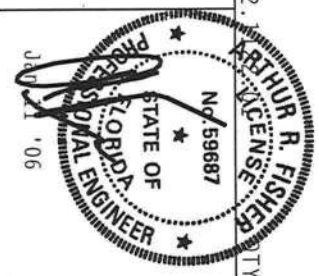
Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY EXISTING OR BOILING TRUSS IN CONFORMANCE WITH THE PROVISIONS OF THIS DESIGN SHALL BE REMOVED AND REPLACED WITH THE TRUSS IN CONFORMANCE WITH THE PROVISIONS OF THIS DESIGN. THE TRUSS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY ARAPI AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA. (44/45/50) ASTM A653 GRADE 40/60 (G, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



Alpine Engineered Products, Inc.  
1950 Mather Drive



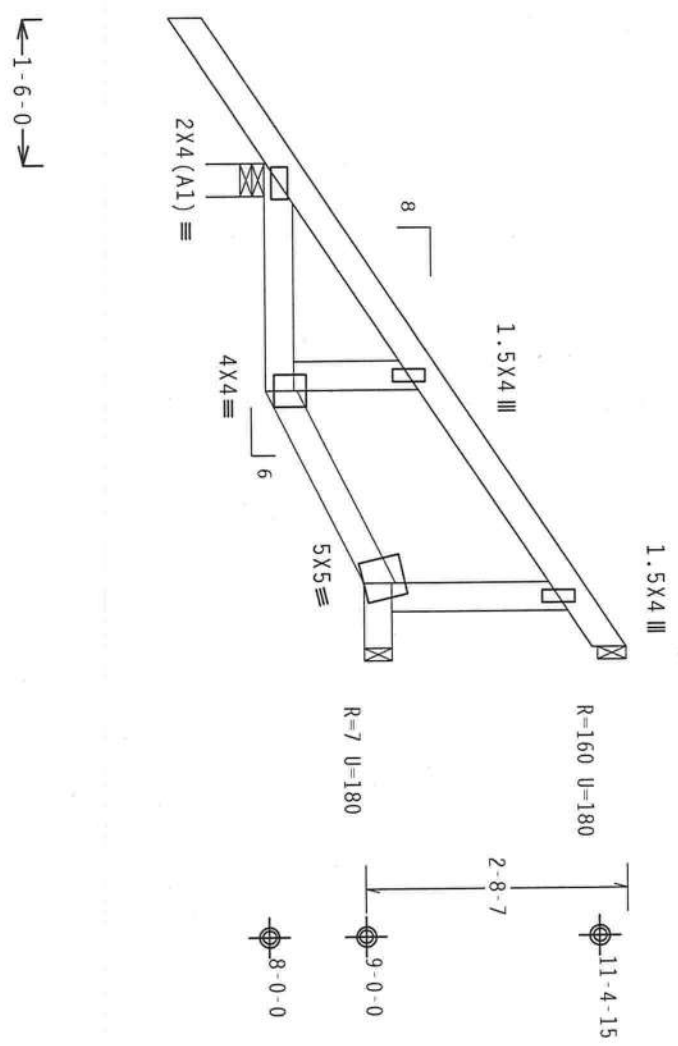
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BC DL	10.0 PSF	DRW HCUSR487 06011009
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19625
DUR.FAC.	1.25	



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

Deflection meets L/360 live and L/240 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, 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.  
 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 TPI

Design Crit: TPI-1995(STD)/FBC

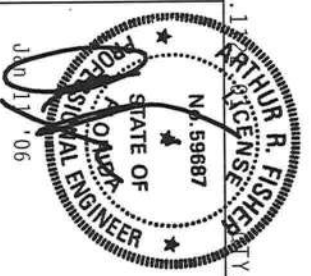
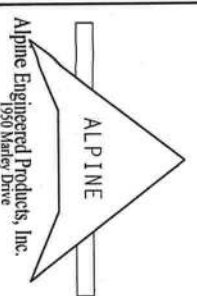
7.22.1

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

Scale = .5"/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, 884 D'ONOFRIO DR., SUITE 200, MADISON, MI 48719) AND WCCA (WOOD TRUSS COUNCIL OF AMERICA, 608 W. WASHINGTON, MI 53119) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS FABRICATION. 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 SHALL BE RESPONSIBLE FOR ANY DETAIL FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, THE TRUSS MANUFACTURER'S INSTRUCTIONS, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SUELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN.



TC LL	20.0 PSF	REF R487 - 14139
TC DL	10.0 PSF	DATE 01/11/06
BC DL	10.0 PSF	DRW HCUSR487 06011011
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT. LD.	40.0 PSF	SEQN- 19617
DUR. FAC.	1.25	

# 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.

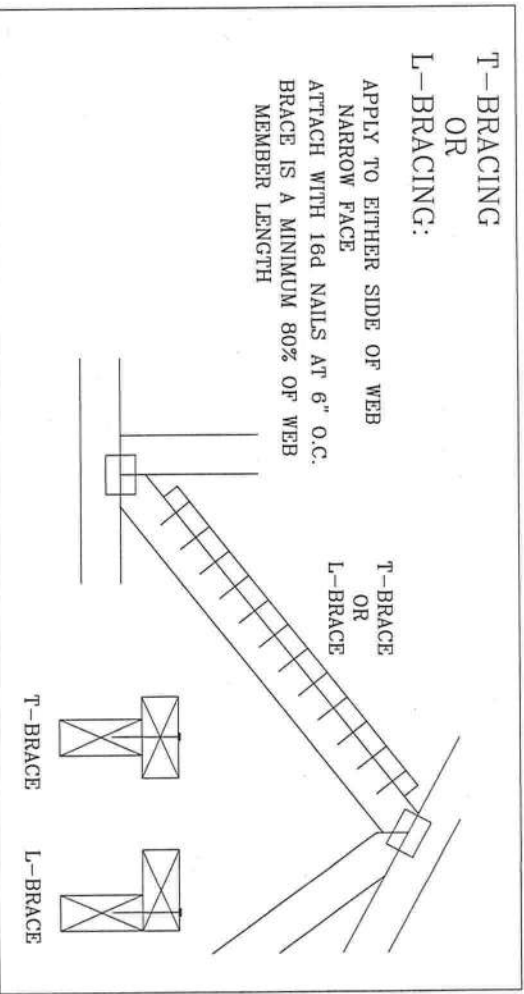
**NOTES:**

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.

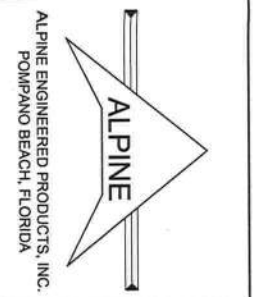
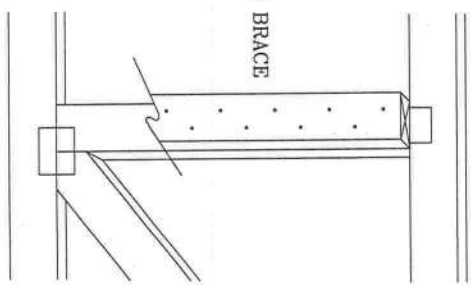


T-BRACING  
OR  
L-BRACING:

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



ALPINE ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA

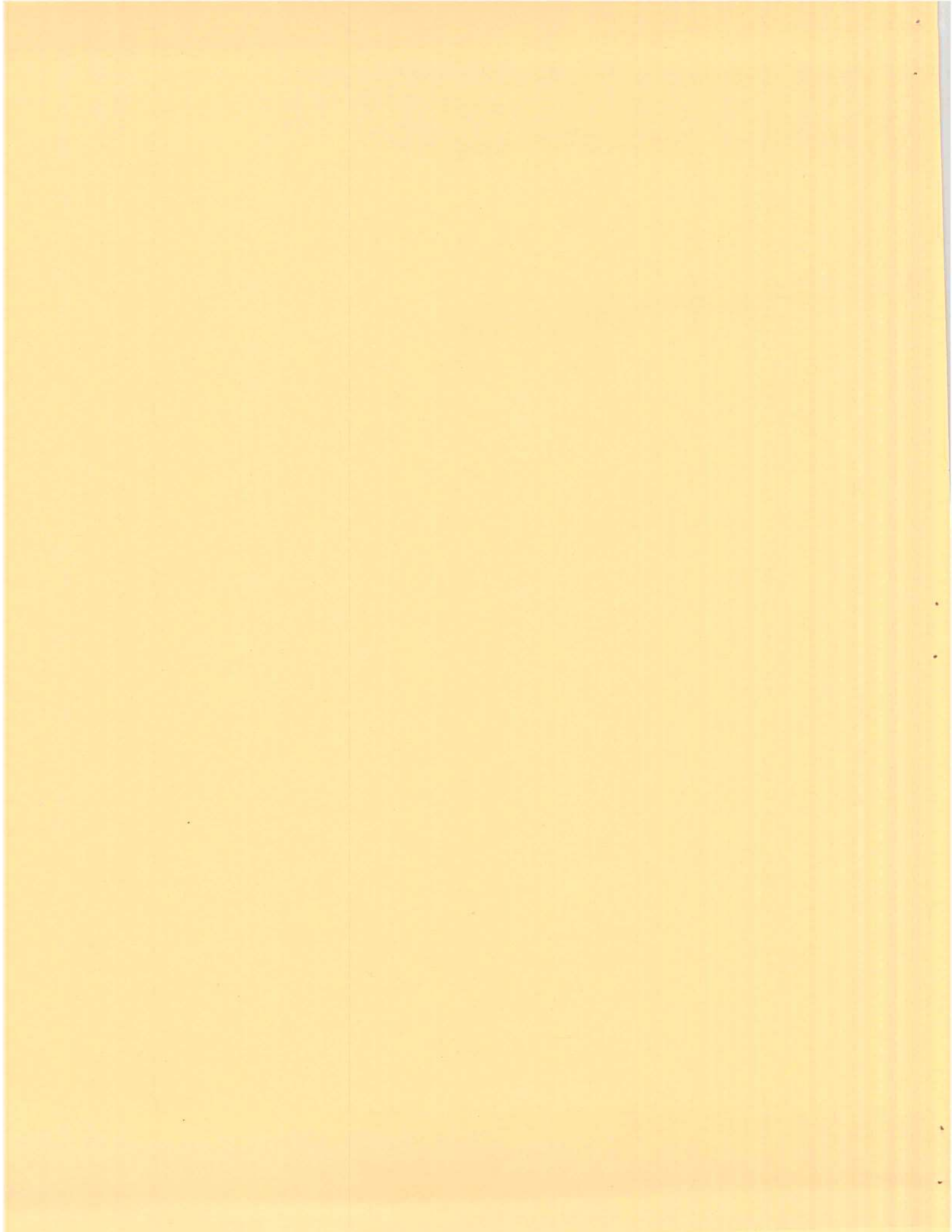
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DOWDRIDGE DR., SUITE 200, MADISON, WI 53719) AND WTC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TPI CHORD SHALL HAVE PROTECTIVE 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 CONNECTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2017B16G6 C/H/SX0 ASTM A639 GRADE 40/60 C/V/K/H/S GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWINGS 1606-2. ANY MODIFICATION OF THIS DESIGN SHALL BE PER ANNEX A4 OF DRAWING 1-1. PERMISSIBLE TO MODIFY THIS DESIGN TO MEET THE REQUIREMENTS OF A PROFESSIONAL ENGINEER. THE SIGNATURE AND SEAL OF THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE BUILDING



THIS DRAWING REPLACES DRAWING 579.640

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRCLBSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			



# New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525 (exp. 10/31/2005)

This form is completed by the licensed Pest Control Company.

**Public reporting burden** for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926(d)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

# 23980

## Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.  
 Company Address: 301 NW Cole Terrace  
 City: Lake City State: FL Zip: 32055  
 Company Business License No. JB109276  
 Company Phone No. 386-756-3611  
 FHA/VA Case No. (if any) \_\_\_\_\_

## Section 2: Builder Information

Company Name: Isaacs Zoning  
 Company Phone No. \_\_\_\_\_

## Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip): Taloney Sub Lot #5 Phoenix Way Lot #5  
 Type of Construction (More than one box may be checked)  Slab  Basement  Crawli  Other \_\_\_\_\_  
 Approximate Depth of Footing: Outside 12 Inside 24  
 Type of Fill  Dirt

## Section 4: Treatment Information

Date(s) of Treatment(s): 1-26-06  
 Brand Name of Product(s) Used: Pro-1A 7.2  
 EPA Registration No. 100-1006  
 Approximate Final Mix Solution % 0.25%  
 Approximate Size of Treatment Area: Sq. ft. 3169 Linear ft. 250  
 Approximate Total Gallons of Solution Applied 820  
 Was treatment completed on exterior?  Yes  No  
 Service Agreement Available?  Yes  No  
 Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) \_\_\_\_\_  
 Comments \_\_\_\_\_  
 Name of Applicator(s) Steve Brennan  
 Certification No. (if required by State law) JF104376  
 The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.  
 Authorized Signature Steve Brennan  
 Date 1-26-06