

DATE03/08/2006

Columbia County Building Permit

PERMIT000024203

This Permit Expires One Year From the Date of Issue

APPLICANTMELANIE RODER

PHONE752-2281

ADDRESS387SW KEMP CT

LAKE CITYFL32024

OWNERGEORGE & FAYE SMALL

PHONE719-7143

ADDRESS1629SW ANDERSON

LAKE CITYFL32024

CONTRACTORISAAC BRATKOVICH

PHONE719-7143

LOCATION OF PROPERTY

PINEMOUNT RD, L GODBOLD, L FKA(TOMPKINS), R SW MARCIS

LOT ON RIGHT CORNER OF MARCIS & ANDERSON

TYPE DEVELOPMENTSFD,UTILITY

ESTIMATED COST OF CONSTRUCTION79500.00

HEATED FLOOR AREA1590.00

TOTAL AREA2362.00

HEIGHT19.90

STORIES1

FOUNDATIONCONCRETE

WALLSFRAMED

ROOF PITCH8/12

FLOORSLAB

LAND USE & ZONINGAG-3

MAX. HEIGHT35

Minimum Set Back Requirments:

STREET-FRONT30.00

REAR25.00

SIDE25.00

NO. EX.D.U.0

FLOOD ZONEX

DEVELOPMENT PERMIT NO.

PARCEL ID14-4S-15-00370-008

SUBDIVISION

LOT

BLOCK

PHASE

UNIT

TOTAL ACRES2.50

CBC059323

Melanie Roder

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

WAIVER

06-0118-N

BK

JH

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD

SECTION 14.9 SPECIAL FAMILY LOT PERMIT

Check # or Cash2449

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power

Foundation

Monolithic

date/app. by

date/app. by

date/app. by

Under slab rough-in plumbing

Slab

Sheathing/Nailing

date/app. by

date/app. by

date/app. by

Framing

Rough-in plumbing above slab and below wood floor

date/app. by

date/app. by

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

date/app. by

date/app. by

date/app. by

Permanent power

C.O. Final

Culvert

date/app. by

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

Pool

date/app. by

date/app. by

Reconnection

Pump pole

Utility Pole

date/app. by

date/app. by

date/app. by

M/H Pole

Travel Trailer

Re-roof

date/app. by

date/app. by

date/app. by

BUILDING PERMIT FEE \$400.00

CERTIFICATION FEE \$11.81

SURCHARGE FEE \$11.81

MISC. FEES \$0.00

ZONING CERT. FEE \$50.00

FIRE FEE \$0.00

WASTE FEE \$

FLOOD DEVELOPMENT FEE \$

FLOOD ZONE FEE \$25.00

CULVERT FEE \$

TOTAL FEE498.62

INSPECTORS OFFICE

CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

George & Faye Small

Columbia County Building Permit Application

498.62
CL 2449
Revised 9-23-04

For Office Use Only Application # 0602-01 Date Received 2/1 By JW Permit # 24203/991
Application Approved by - Zoning Official BLK Date 07.02.06 Plans Examiner OK JTH Date 3-2-06
Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
Comments NOC and EA missing Section 14.9 Special Family Lt Permit

Applicants Name ~~George and Faye Small~~ Melanie Roder Phone 386-752-2281
Address 387 S.W. Kemp Ct. Lake City FL 32024
Owners Name George and Faye Small Phone _____
911 Address 1629 S.W. Anderson Lake City FL 32024
Contractors Name Isaac Bratkovich of Isaac Construction Phone 386-719-7143
Address 1005 S.W. Watter Ave. Lake City FL 32024
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Will Myers / Nick Geister
Mortgage Lenders Name & Address NA

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

Property ID Number 14-45-B-00370-008 parcel C Estimated Cost of Construction 90,000

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

Driving Directions S.W. Pinemont Rd (252) L on Goobold, L on FKA Tomkins Rd, R on S.W. Marcis Terrace, Stop at S.W. Anderson St. Lot on R, corner of Marcis & Anderson St.

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 2.50 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 100' Side 97'-7" Side 97'-8" Rear 294'-2"

Total Building Height 19'-9" Number of Stories 1 Heated Floor Area 1590 Roof Pitch 8-12
Porch 227 6A 042 5 4/5 TOTAL 2362

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



Commission # DD329279
Expires July 2, 2008
Bonded Troy Pain Insurance, Inc. 800-368-7010

Contractor Signature Isaac Bratkovich
Contractors License Number CBC 09323
Competency Card Number _____
NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me
this 13 day of December 2005
Personally known ✓ or Produced Identification _____

Notary Signature Barbara C. Webster
Melanie advised 3-20

ATT: Waggie

**Columbia County Building Department
Culvert Waiver**

**Culvert Waiver No.
000000991**

DATE: 03/08/2006 BUILDING PERMIT NO. 24203

APPLICANT MELANIE RODER 387SW KEMP CT PHONE 752-2281

ADDRESS 38 SW KEMP CT LAKE CITY FL 32024

OWNER GEORGE AND FAYE SMALL PHONE _____

ADDRESS 1629 SW ANDERSON LAKE CITY FL 32024

CONTRACTOR ISAAC BRATKOVICH PHONE 719-7143

LOCATION OF PROPERTY PINEMOUNT RD, L GODBOLD, L FKA(TOMPKINS), R SW MARCIS

OM RIGHT CORNER OF MARCIS & ANDERSON

SUBDIVISION/LOT/BLOCK/PHASE/UNIT _____

PARCEL ID # 14-4S-15-00370-008

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: Melanie Roder

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:

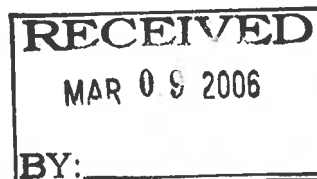
✓ APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: _____

SIGNED: Perry Little DATE: 3/13/06

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160





24203

Phone (386) 755-3611

Fax (386) 752-5381

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.**(386) 755-3611****State License # - JB109476****State Certification # - JF104376****Small 1629, SW Anderson, Lake City, FL 32024**

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.


Authorized Signature
Date

STUSS

Mayo, FL 32066

Ph. 386-294-3988

Toll-Free 877-558-6262

Fax 386-294-3981

24203

July 19, 2006

To Whom It May Concern:

Re: T06060436 (repair for D4)

I have reviewed the repair made and have spoken with the Robbins engineer, and the following changes must be made to be compliant with the engineer's specifications. The 2x4 #2 SYP header must be attached to the A4 and uncut D4 truss with an LUS24 or equivalent hanger. The repaired D4 truss must be attached to the 2x4 header with an LUS24 hanger or equivalent hanger. If you have any questions, please call me at 386-294-3988.

Thank you.

Michelle Murray
Michelle Murray
Head Truss Designer

Truss Fabricator: Mayo Truss Company, Inc

Job Reference: SAAC-SMALL, T06050242, (T1: A3.), SMALL - N/A

ROBBINS
ENGINEERING, INC.

P.O. Box 280055
Tampa, FL 33682-0055
Phone: (813) 972-1135

Engineering Index Sheet
Index Page 1 of 1

Job Number
T06071821

Date
07/20/2006

FBC - 2001 Chapter 16 and 23
Specification Quantity
1

A Professional Engineer's seal affixed to this Index Sheet indicates the acceptance of Professional Engineering responsibilities for individual truss components fabricated in accordance with the listed and attached Truss Specification Sheets. Determination as to the suitability of these individual truss components for any structure is the responsibility of the Building Designer, as defined in ANSI/APA 1-2002, Section 2.2. Permanent files of the original Truss Specification Sheets are maintained by Robbins Engineering, Inc. Questions regarding this Index Sheet and/or the attached Specification Sheets may be directed to the truss fabricator listed above or Robbins Engineering, Inc. (Software - Online Plus)

Date Mark
2 07/20/06 AS-FXAY

Date Mark

Date Mark

Date Mark

QUANTITY LISTING:
T.C. Dead 20 psf
T.C. Live 10 psf
B.C. Live 0 psf
B.C. Dead 40 psf
Total 70 psf

ANSI/APA 1-2002
Wind Speed - 110 MPH
Mean Roof Ht. - 15 ft
Exposure Category - B
Occupancy Factor - 1.00
MWPRS
E included

Notes: Refer to individual
truss design drawings for
special loading
conditions.

Truss Design Engineer: Philip J. O'Regan
License # 58126
Address: P.O. Box 280055, Tampa, FL 33682



LUMBER, PLATES, ETC., NOT SHOWN REFER TO DRG. # T06050242-A3.
IS BASED ON INFORMATION RECEIVED FROM TRUSS FABRICATOR.
MUST BE IN ORIGINAL UNDEFLECTED POSITION PRIOR TO CARRYING OUT THE

TEMPORARY SUPPORT TO TRUSS.

PROBLEM:

CUT AND REMOVE PORTION OF TRUSS WHERE SHOWN DASHED.

SOLUTION:

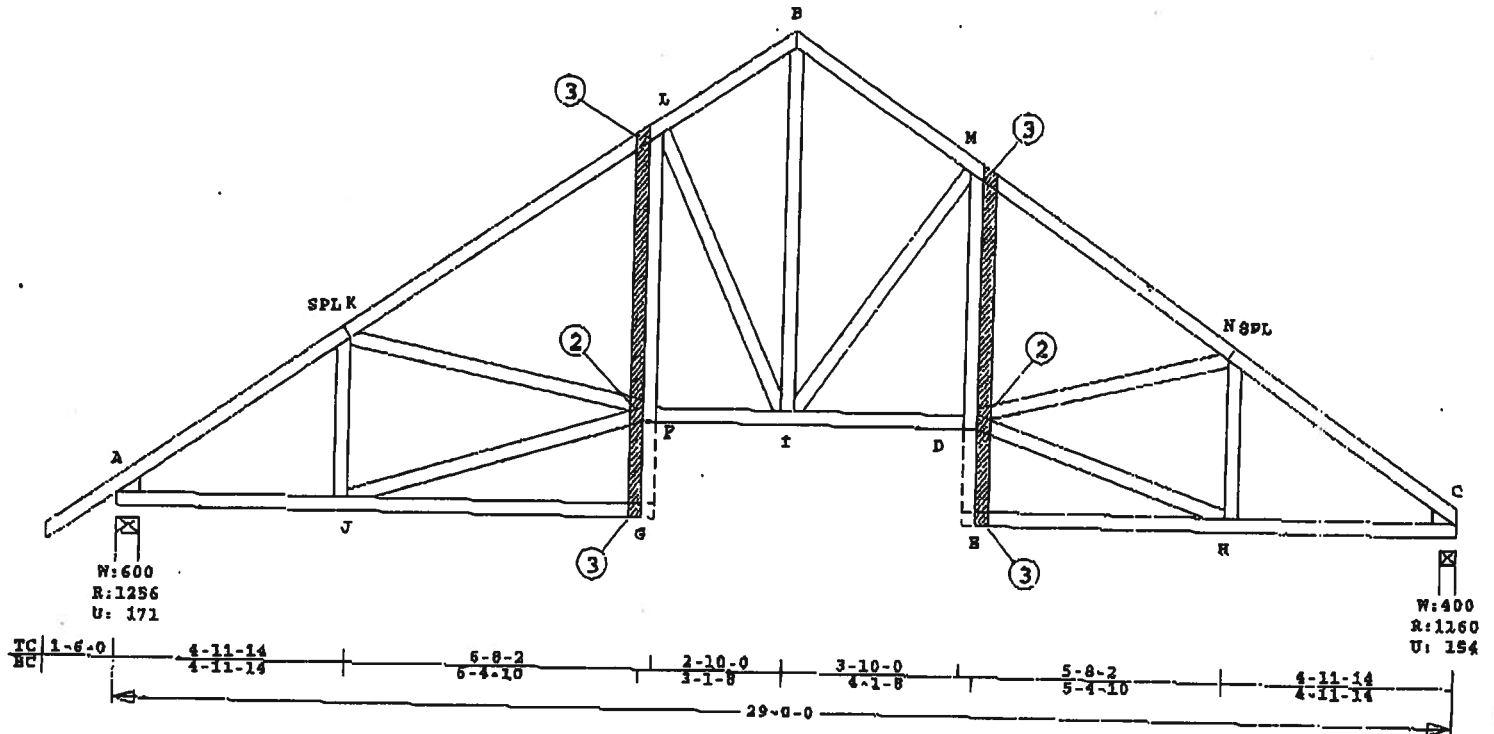
ALL NAILS SO AS TO AVOID DAMAGING OF LUMBER AND LOOSENING OF PLATES AT

1 2X4 SP#2 VERTICAL SCAB (SHADED) TO ONE FACE OF TRUSS USING CLUSTERS OF
IRON NAILS WHERE SHOWN CIRCLED.

CHARBIDE TIP BLADE TO CUT AND REMOVE PORTION OF CHORD SHOWN DASHED.
CUT PLATES AT JOINT F AND D AND REMAINING PLATES MUST BE INTACT AND
BEDDED AFTER CUTTING.



Date Sealed: 7/20/2006

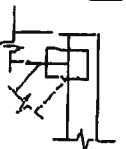


AC-SMALL SMALL

Robbins Engineering, Inc./Online Plus™

Scale

Mark	Quan	Type	Span	Pl-H1	Left OH	Right OH	Sin
A3-FXAV	6	SP	290000	8	1- 6- 0	0	T



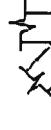
or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

(W) = Wide Face Plate
(N) = Narrow Face Plate

PLATE SIZE AND ORIENTATION

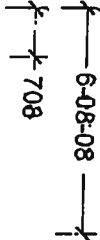
The first dimension is the width measured perpendicular to slots.

The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.



DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).

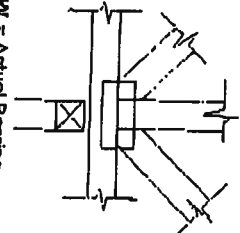


support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.



BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.



W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with "National Design Specifications for Wood Construction" (AF & PA), "National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafter.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS FABRICATOR.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent topping and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.



6904 Parke East Blvd.

Tampa, FL 33610-4115

Tel: 813-972-1135 Fax: 813-971-6117

www.robbseng.com

COLUMBIA COUNTY OR OCCUPANCY

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 14-4S-15-00370-008

Building permit No. 000024203

Use Classification SFD, UTILITY

Fire: 61.38

Permit Holder ISAAC BRATKOVICH

Waste: 184.25

Owner of Building GEORGE & FAYE SMALL

Total: 245.63

Location: 1629 SW ANDERSON STREET, LAKE CITY, FL

Date: 11/20/2006

Fany Diehl

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

758-2160
 Att: Janice

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

***** THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
 CLERKS OFFICE BEFORE YOUR FIRST INSPECTION. *****

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 14-4S-15-00370-008

1. Description of property: (legal description of the property and street address or 911 address)

1629 SW Anderson - Lake City, Florida 32024

2. General description of Improvement: single family dwelling

3. Owner Name & Address George and Faye Small

53 Wescott Rd. Gorham, ME 04038 Interest in Property Homesite

4. Name & Address of Fee Simple Owner (if other than owner): N/A

5. Contractor Name Isaac Construction, LLC

Phone Number 386-719-7143

Address 2109 W US Hwy 90 Ste #170 PMB 338 Lake City, FL 32055

6. Surety Holders Name N/A

Phone Number _____

Address _____

Amount of Bond N/A

Inst: 2006008988 Date: 04/12/2006 Time: 15:10

7. Lender Name N/A

S. P. DC, P. DeWitt Cason, Columbia County B:1080 P:1085

Address _____

8. Persons within the State of Florida designated by the Owner upon whom service of notice of commencement may be served as provided by section 718.13 (1)(a) 7: Florida Statutes:

Name N/A

Phone Number _____

Address _____

9. In addition to himself/herself the owner designates N/A of

_____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

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.

Faye Small

George E Small

Signature of Owner



Barbara C. Webster
 Commission # DD329279
 Expires July 2, 2008

Bonded Troy Felt - Insurance, Inc. 800-385-7010

Sworn to (or affirmed) and subscribed before 11th
 day of April, 2006

NOTARY STAMP/SEAL

Barbara C Webster

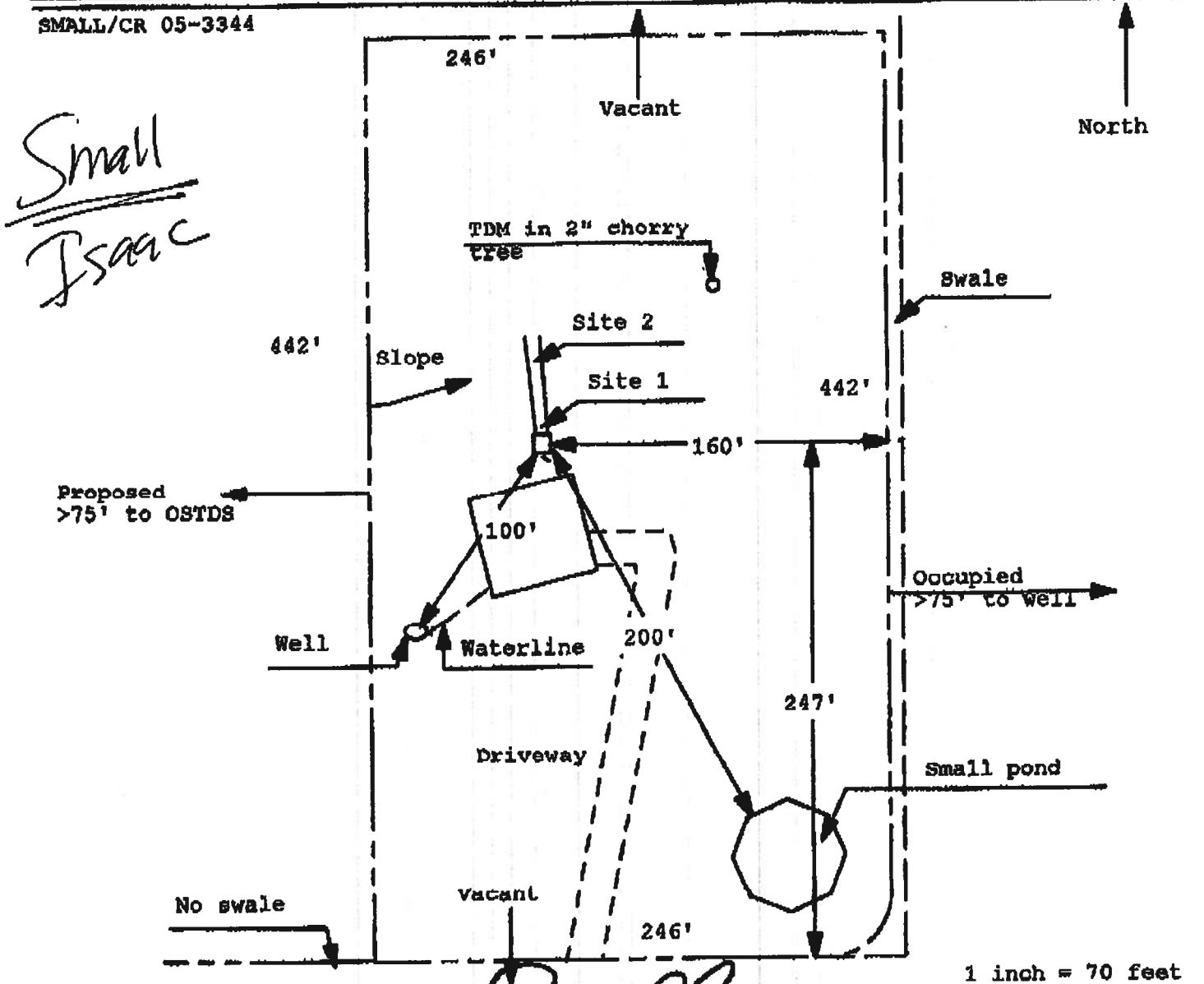
Signature of Notary

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0118N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SMALL/CR 05-3344



Site Plan Submitted By Paul L. Paul Date 2/2/06
 Plan Approved ☒ Not Approved ☐ By Sally Gaddy, ELL Date 2-20-06 CFHU

Notes: _____

Columbia CHD



Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 14-4S-15-00370-008 - NO AG ACRE (009900)

BEG AT SE COR SEC, RUN N 442.43 FT, W 246.61 FT, S 442.16 FT, E 246.61 FT TO POB

Name: SMALL GEORGE E & FAY L

Site:

Mail: 53 WESCOTT RD
GORHAM, ME 04038

Sales 10/4/2005 \$100.00V / U

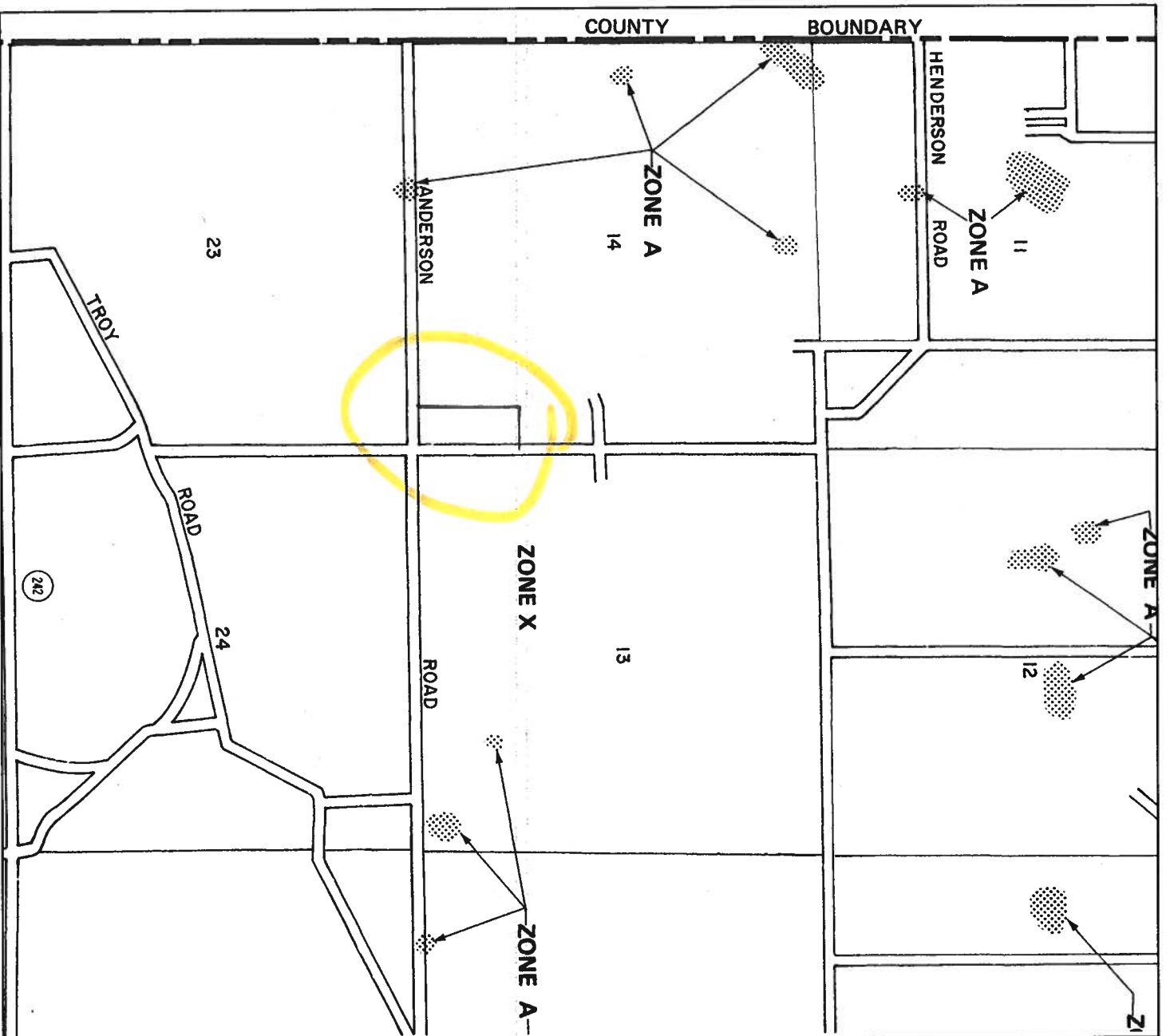
Info 7/18/2005 \$112,500.00V / Q

LandVal	\$15,000.00
BldgVal	\$0.00
ApprVal	\$15,000.00
JustVal	\$15,000.00
Assd	\$15,000.00
Exmpt	\$0.00
Taxable	\$15,000.00

0 0.08 0.16 0.24 mi



This information, GIS Map Updated: 1/9/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



APPROXIMATE SCALE IN FEET
 2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
 FLOOD INSURANCE RATE MAP

COLUMBIA
 COUNTY,
 FLORIDA
 (UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
 120070 0175 B
 EFFECTIVE DATE:
 JANUARY 6, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/nifmsd.

Prepared by and return to:
 GUY W. NORRIS, Attorney at Law
 NORRIS & JOHNSON, P.A.
 P. O. Drawer 2349
 Lake City, Florida 32066-2349

From a legal description provided by Grantor
 and without a title search

Inst:2005028519 Date:11/18/2005 Time:12:34

Doc Stamp-Deed : 0.70

DC, P. Dewitt Cason, Columbia County B:1065 P:602

WARRANTY DEED

THIS INDENTURE, Made this 18th day of October, 2005, between FRANK VITANI and CANDIE VITANI, husband and wife, whose address is 11960 56th Place North, West Palm Beach, Florida 33411, hereinafter called the Grantors, and GEORGE E. SMALL and FAY L. SMALL, husband and wife, whose address is 53 Wescott Road, Gorham, Maine 04038, hereinafter called the Grantees,

WITNESSETH:

That said Grantors, for and in consideration of the sum of TEN and No/100 DOLLARS (\$10.00), and other good and valuable considerations to said Grantors in hand paid by said Grantees, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantees, and Grantees' heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

TOWNSHIP 4 SOUTH, RANGE 15 EAST

Section 14: Begin at the SE Corner of Section 14, Township 4 South, Range 15 East, Columbia County, Florida and run N. 00°01'31" W., along the East line thereof, 442.43 feet; thence S. 89°18'46" W., 246.61 feet; thence S. 00°01'30" E., 442.16 feet to the South line of said Section 14; thence N. 89°19'33" E., along said South line, 246.61 feet to the POINT OF BEGINNING. Containing 2.50 acres, more or less.

Parcel No.14-4S-15-00370-005

SUBJECT TO: Ad valorem taxes and special assessments for 2005 and subsequent years; restrictions and easements of record; easements shown by a plat of the property; visible easements; and existing county maintained right-of-way.

N.B.: The Grantee, Fay L. Small, is the sister of the Grantor, Candie Vitani.

And said Grantors do hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, Grantors have hereunto set Grantors' hands and seals the day and year first above written.

Signed, sealed and delivered
 in the presence of:

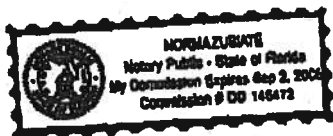
Sign [Signature]
 Print MISSA MORALES

Sign [Signature]
 Print DEWITT CASON

[Signature]
 FRANK VITANI - U3508736Y1460x10
[Signature]
 CANDIE VITANI - U3508736Y1460x10

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 4th day of October, 2005, by FRANK VITANI and CANDIE VITANI, husband and wife, each of whom is personally known to me or has produced FL & IE as identification.



NOTARY PUBLIC

Sign

Print

State of Florida at Large (Seal)

My Commission Expires:

Inst: 2005020310 Date: 11/16/2005 Time: 12:34
Doc Stamp-Dead : 0.70

DC, P. DeWitt Cason, Columbia County B: 1085 P: 603

246.61'

15'-0" REAR SETBACK

294'-2"

294'-2"

ISAAC CONSTRUCTION, INC.
GEORGE & FAY SMALL
PARCEL "C" 2.5 ACRES +/-
COLUMBIA COUNTY, FL. 32025

442.18'

10'-0" SIDE SETBACK

442.48'

10'-0" SIDE SETBACK

97'-7"

51'-4"

97'-6"

48'-4"

48'-4"

97'-7"

51'-4"

97'-6"

100'-0"
(ADJST)

100'-0"
(ADJST)

APPROX.
WELL
LOCATION

25'-0" FRONT SETBACK

SCALE: 1" = 45'-0"

246.61'

ANDERSON ROAD

10/18/2001 17:10 FAX

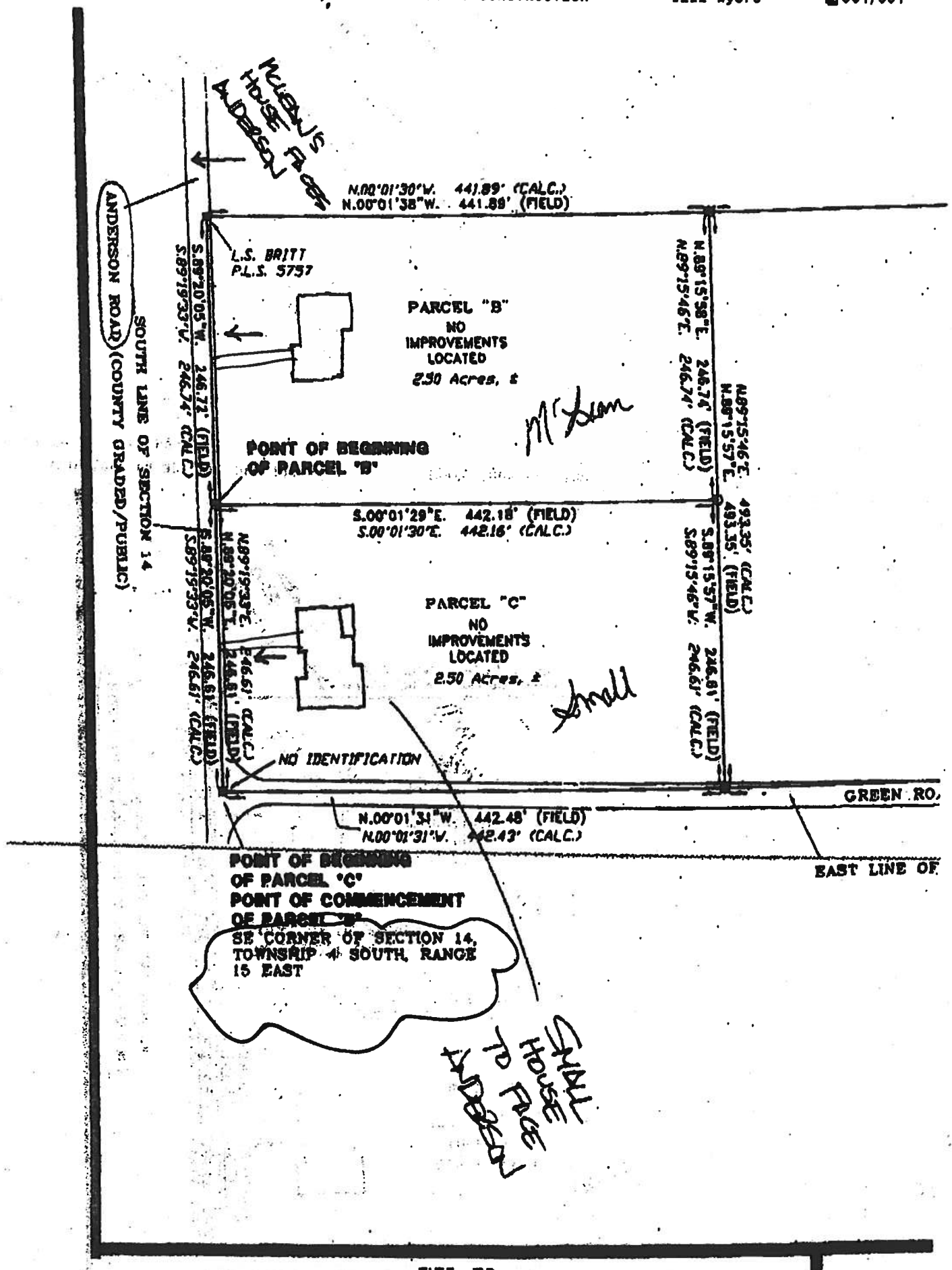
12/18/2005 09:35 FAX 3067194757

ISAAC CONSTRUCTION

→ Will Myers

001/001

001/001



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	Isaac Construction - Small Res.	Builder:	Isaac Construction Inc.
Address:	Anderson Road	Permitting Office:	Columbia County
City, State:	Lake City, FL 32025	Permit Number:	
Owner:	George & Fay Small	Jurisdiction Number:	
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 40.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.50
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1590 ft ²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 40.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 7.40
(or Single or Double DEFAULT) 7a. (Dble Default) 278.7 ft ²		b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 278.7 ft ²		14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 50.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 209.0(p) ft		EF: 0.90
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 1195.3 ft ²	DHP-Dedicated heat pump)	
b. Frame, Wood, Adjacent	R=13.0, 367.0 ft ²	15. HVAC credits	PT,
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 1590.0 ft ²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft		
b. N/A			

Glass/Floor Area: 0.18

Total as-built points: 24474

Total base points: 24897

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: 12-29-05

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT [Signature]

DATE: 1-04-06

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: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1590.0	20.04	5735.4	Double, Clear	W	7.5	9.0	80.0	38.52	0.57	1760.3
				Double, Clear	W	1.5	9.0	60.0	38.52	0.97	2242.9
				Double, Clear	N	1.5	9.0	20.0	19.20	0.98	374.7
				Double, Clear	N	1.5	9.0	16.0	19.20	0.98	299.7
				Double, Clear	E	6.5	9.0	30.0	42.06	0.60	762.0
				Double, Clear	E	11.5	9.0	6.7	42.06	0.46	129.6
				Double, Clear	E	1.5	9.0	30.0	42.06	0.97	1223.7
				Double, Clear	S	1.5	9.0	6.0	35.87	0.94	203.2
				Double, Clear	S	1.5	9.0	30.0	35.87	0.94	1015.9
				As-Built Total:				278.7	8012.0		
WALL TYPES				Area X BSPM = Points		Type		R-Value		Area X SPM = Points	
Adjacent	367.0	0.70	256.9	Frame, Wood, Exterior		13.0		1195.3	1.50		1793.0
Exterior	1195.3	1.70	2032.0	Frame, Wood, Adjacent		13.0		367.0	0.60		220.2
Base Total:				1562.3		2288.9		As-Built Total:		1562.3	
										2013.2	
DOOR TYPES				Area X BSPM = Points		Type		Area X SPM = Points			
Adjacent	20.0	1.60	32.0	Exterior Insulated		20.0		4.10		82.0	
Exterior	20.0	4.10	82.0	Adjacent Insulated		20.0		1.60		32.0	
Base Total:				40.0		114.0		As-Built Total:		40.0	
										114.0	
CEILING TYPES				Area X BSPM = Points		Type		R-Value		Area X SPM X SCM = Points	
Under Attic	1590.0	1.73	2750.7	Under Attic		30.0		1590.0	1.73 X 1.00		2750.7
Base Total:				1590.0		2750.7		As-Built Total:		1590.0	
										2750.7	
FLOOR TYPES				Area X BSPM = Points		Type		R-Value		Area X SPM = Points	
Slab	209.0(p)	-37.0	-7733.0	Slab-On-Grade Edge Insulation		0.0		209.0(p)	-41.20		-8610.8
Raised	0.0	0.00	0.0								
Base Total:				-7733.0		As-Built Total:		209.0		-8610.8	
INFILTRATION				Area X BSPM = Points				Area X SPM = Points			
				1590.0		10.21		16233.9			
								1590.0		10.21	
										16233.9	

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 19390.0			Summer As-Built Points:					20512.9
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
19390.0	0.4266	8271.8	(sys 1: Central Unit 40000 btuh ,SEER/EFF(12.5) Ducts:Unc(S),Unc(R),Gar(AH),R8.0(INS) 20513 20512.9	1.00 1.00	(1.09 x 1.147 x 1.00) 1.250	0.273 0.273	0.950 0.950	6652.2 6652.2

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Anderson Road, Lake City, FL, 32025

PERMIT #:

BASE				AS BUILT							
GLASS TYPES											
18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt			Area X WPM X WOF = Points			
18	1890.0	12.74	3646.2	Double, Clear	W	7.5	9.0	80.0	20.73	1.15	1904.1
				Double, Clear	W	1.5	9.0	60.0	20.73	1.01	1253.5
				Double, Clear	N	1.5	9.0	20.0	24.58	1.00	491.8
				Double, Clear	N	1.5	9.0	16.0	24.58	1.00	393.4
				Double, Clear	E	6.5	9.0	30.0	18.79	1.20	677.6
				Double, Clear	E	11.5	9.0	6.7	18.79	1.35	170.3
				Double, Clear	E	1.5	9.0	30.0	18.79	1.02	572.6
				Double, Clear	S	1.5	9.0	6.0	13.30	1.02	81.6
				Double, Clear	S	1.5	9.0	30.0	13.30	1.02	408.2
				As-Built Total:			278.7			5953.2	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	387.0	3.60	1321.2	Frame, Wood, Exterior	13.0			1195.3	3.40	4084.0	
Exterior	1195.3	3.70	4422.6	Frame, Wood, Adjacent	13.0			387.0	3.30	1211.1	
Base Total:				1682.3			5743.8				
				As-Built Total:			1682.3			5275.1	
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	20.0	8.00	160.0	Exterior Insulated				20.0	8.40	168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated				20.0	8.00	160.0	
Base Total:				40.0			328.0				
				As-Built Total:			40.0			328.0	
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	1590.0	2.05	3259.5	Under Attic	30.0			1590.0	2.05 X 1.00	3259.5	
Base Total:				1590.0			3259.5				
				As-Built Total:			1590.0			3259.5	
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	209.0(p)	8.9	1860.1	Slab-On-Grade Edge Insulation	0.0			209.0(p)	18.80	3929.2	
Raised	0.0	0.00	0.0								
Base Total:				1860.1			3929.2				
				As-Built Total:			209.0			3929.2	
INFILTRATION Area X BWPM = Points							Area X WPM = Points				
1590.0 -0.59 -938.1							1590.0 -0.59 -938.1				

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		13899.5		Winter As-Built Points:			17807.0			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points	
13899.5		0.6274	8720.5	(sys 1: Electric Heat Pump 40000 btuh ,EFF(7.4) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 17807.0	1.000 (1.069 x 1.169 x 1.00)	0.461		0.950	9741.6	
13899.5		0.6274	8720.5	17807.0	1.00	1.250	0.461	0.950	9741.6	

Residential Whole Building Performance Method A - Details

PERMIT #:

CODE COMPLIANCE STATUS													
BASE					AS-BUILT								
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
8272		8721		7905		24897	6652		9742		8081		24474

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Anderson Road, Lake City, FL, 32025-

PERMIT #:

6A-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 joist 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.	

6A-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 612.1.ABC.3.2. Switch or clearly marked air 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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air 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* = 83.5

The higher the score, the more efficient the home.

George & Fay Small, Anderson Road, Lake City, FL, 32025-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 40.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.50
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1590 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 40.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 278.7 ft ²			HSPF: 7.40
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 278.7 ft ²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 209.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1195.3 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 367.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1590.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft		
b. N/A			

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



*NOTE: 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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) 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 at 850/487-1824.

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCPB v4.1)

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS

DONALD AND MARY HALL
OWNERSPHONE (386) 783-1884
FAX (386) 783-7822
804 NW MAIN BLVD.
LAKE CITY, FLORIDA 32065

July 12, 2005

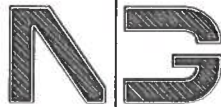
NOTICE TO BUILDING DEPTFor George + Faye Small

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results. All wells will have a submersible pump and diaphragm tank combination that will be sufficient for each situation.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/tb



**NICHOLAS
PAUL
GEISLER**
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

21 FEBRUARY 2006

JOHNNY KEARSE, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: GARCIA RESIDENCE
PERMIT Nr.: _____

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGES TO THE CONSTRUCTION
DOCUMENTS FOR THE ABOVE REFERENCED PROJECT:

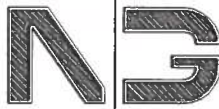
IN LIEU OF THE TRUSS ANCHORS INDICATED IN THE CON DOCS, IT SHALL
BE PERMISSIBLE TO ANCHOR THE TRUSSES TO THE WALL FRAMING WITH
"SIMPSON" H2.5A ANCHORS EXCEPT AS NOTED HERE:

TRUSS MDG, USE 2 "SIMPSON" H2.5A, MOUNTED DIAGONALLY OPPOSITE
ACROSS TRUSS - 2 EACH END.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR
ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

Both for
Isaac Ernst



**NICHOLAS
PAUL
GEISLER**
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

21 FEBRUARY 2006

JOHNNY KEARSE, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: SMALL RESIDENCE
PERMIT Nr.: _____

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGES TO THE CONSTRUCTION
DOCUMENTS FOR THE ABOVE REFERENCED PROJECT:

IN LIEU OF THE TRUSS ANCHORS INDICATED IN THE CON DOCS, IT SHALL
BE PERMISSIBLE TO ANCHOR THE TRUSSES TO THE WALL FRAMING WITH
"SIMPSON" H2.5A ANCHORS EXCEPT AS NOTED HERE:

TRUSS F3, USE 2 "SIMPSON" H2.5A, MOUNTED DIAGONALLY OPPOSITE
ACROSS TRUSS - 2 EACH END.

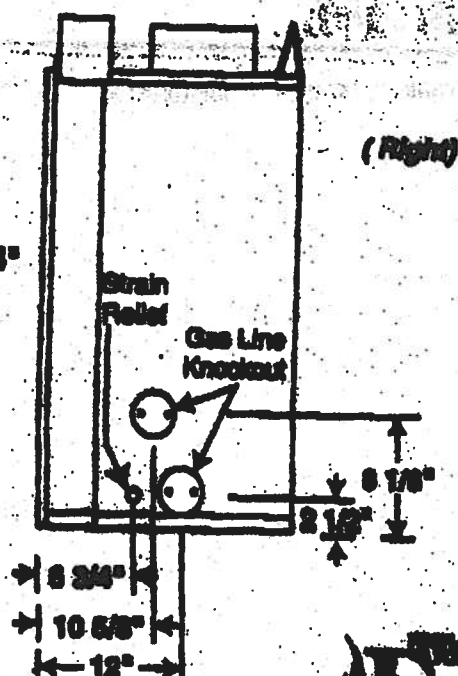
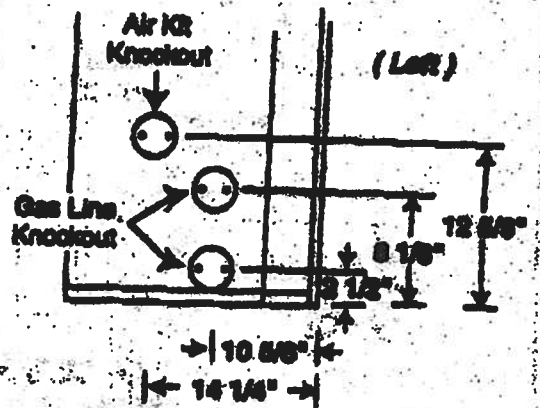
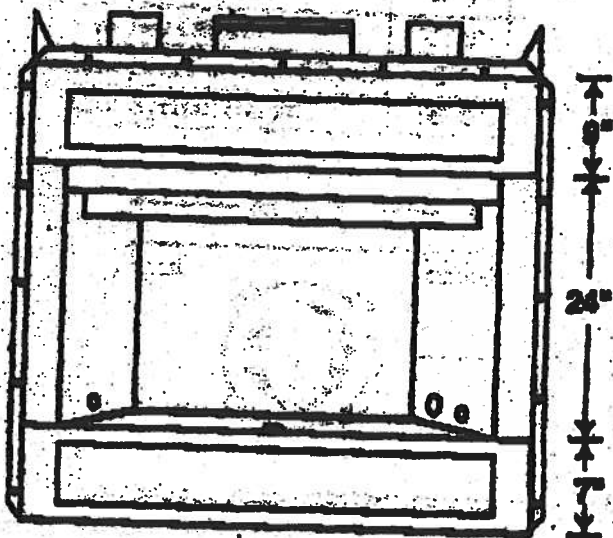
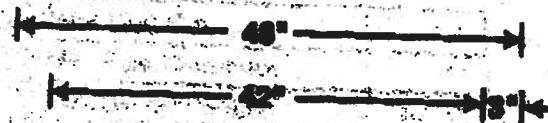
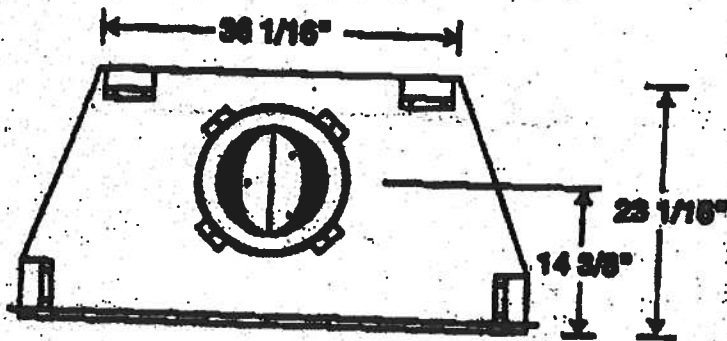
SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR
ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

Craftsman

42" Woodburning Fireplace

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



Fmi

**AAMA/NWDA 101/LS3-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.**SERIES/MODEL: 650 Fm
TYPE: Aluminum Single Hung Window**

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
De-glazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:alb


1 APRIL 2002



II

Architectural Testing

AAMA/NWDA 101/LS-2-97 TEST REPORT

Rendered to

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

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

Project Summary: Architectural Testing, Inc. (ATI) was contracted 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.

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

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 vinyl spacer system. The active sash was channel glazed utilizing a flexible vinyl weatherstripping gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen M. Reeves
1 APRIL 2002



III

Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile 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

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 rails 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.

Hardware:

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

Allen N. Reeves
1 APRIL 2002



IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

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

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	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) @ 34.7 psf (negative)	0.42** 0.43**	0.26" max. 0.26" max.

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

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
---------	---	----------------	--------------------------

Allen H. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	0.26" max.

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

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

Allen H. Reeves
1 APRIL 2002



VI

01-41134.01
Page 5 of 5

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.

For ARCHITECTURAL TESTING, INC:



Mark A. Hens
Technician

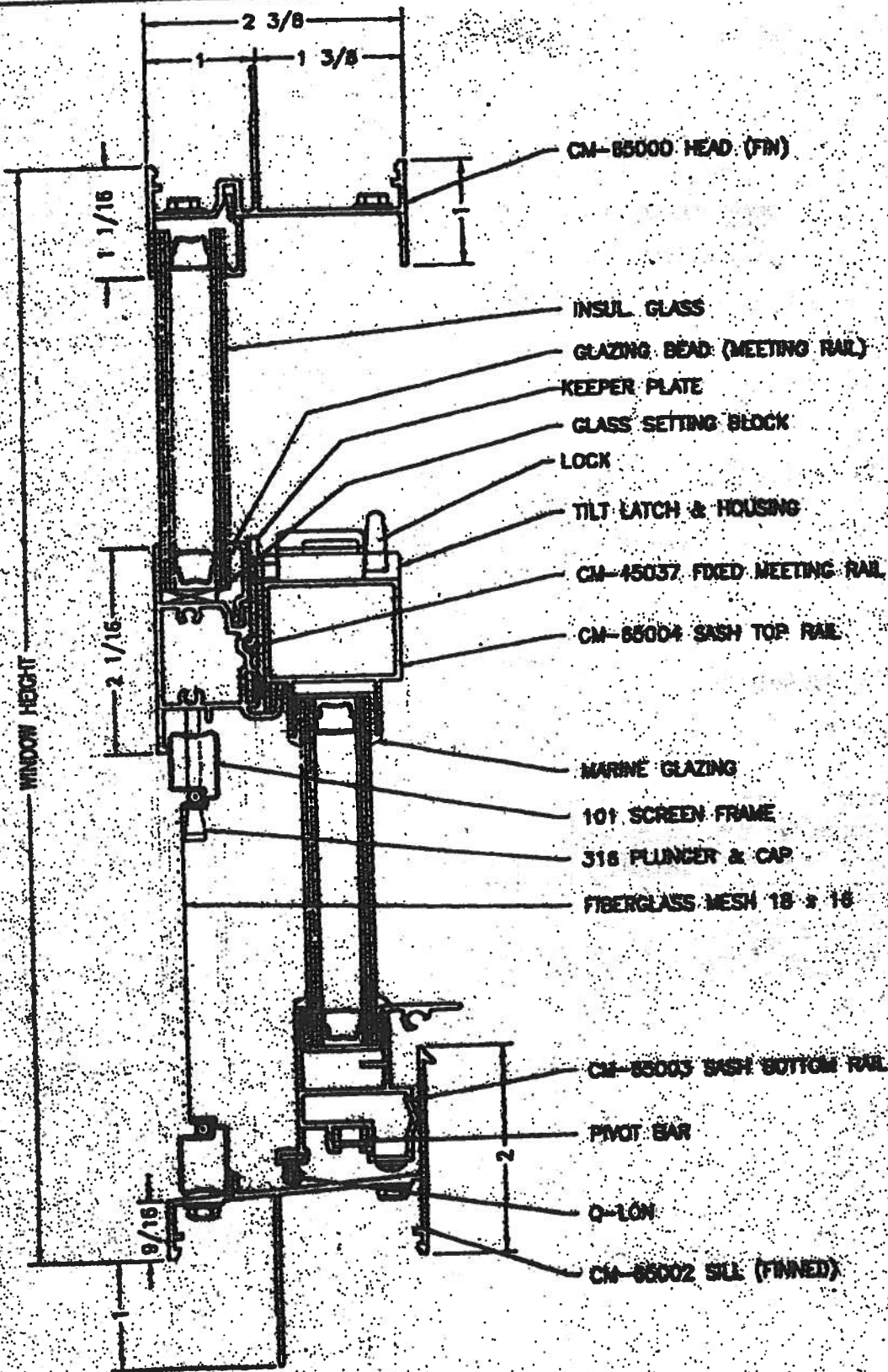
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01-41134.01



Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002



650-AS1 A



HI HOME PRODUCTS

650 WEST BUCKLEY STREET - GIBB, PA - 17030-0370

TITLE

650 SH FIN MAIN FRAME
VERTICAL CROSS SECTION

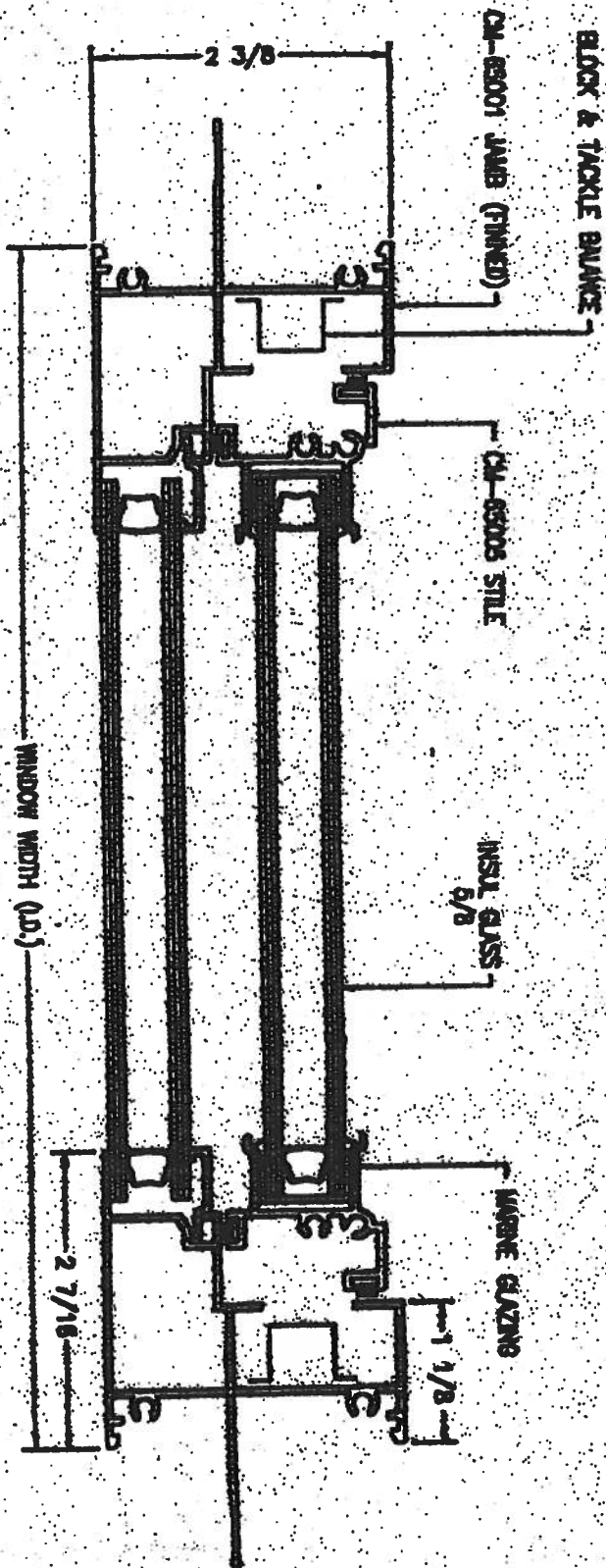
DATE

BY

FILE

650-AS1

A



TIME	260	SH	FIN	MAN	FINALE	INSULATED
	CLASS	HORIZONTAL	CROSS	SECTION		
DATE	4-7-52	BY	FILE	650-AS2	8th	B

MI HOME PRODUCTS
800-851-1987 • 6047, 7th • 1700-0370

800-877-8888 • FAX • 1-781-257-0570

850 BTU PER HOUR INSULATED

850-25

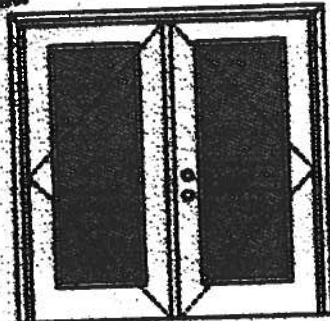
XX

Glazed Outswing Unit

30P WL-CH162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 5'0" x 6'6".

Double Door
Maximum unit size = 6'0" x 6'6"

Design Pressure
+40.5/-40.5

Limited water unless special threshold design is used.

Large Glazings Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistance requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the action required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MAG012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



120, 200 Series



130 Series



400 Series



500 Series

1/2 GLASS:



140 Series



160, 180 Series



120 Series



200 Series



12 04, 20 04, 24 04 Series



100 Series



100 Series

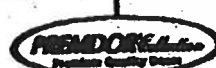


304 Series

*This glass kit may also be used in the following door styles: 6-panel; 6-panel with screen; System 6-panel; System 6-panel with screen.

Johnson
Entry Systems

March 20, 2002
Our marketing program of product improvement studies specifications, design and product and subject to change without notice.



Exclusively from

Masonite

Masonite International Corporation

XX**Glazed Outswing Unit**

BCCF WL 244102-12

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:
3/4 GLASS:****FULL GLASS:****CERTIFIED TEST REPORTS:**

NCTL 210-1887-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 10258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2784-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip like surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

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

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 L. Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. - License Number 66533

Johnson
Entry Systems

March 20, 2002

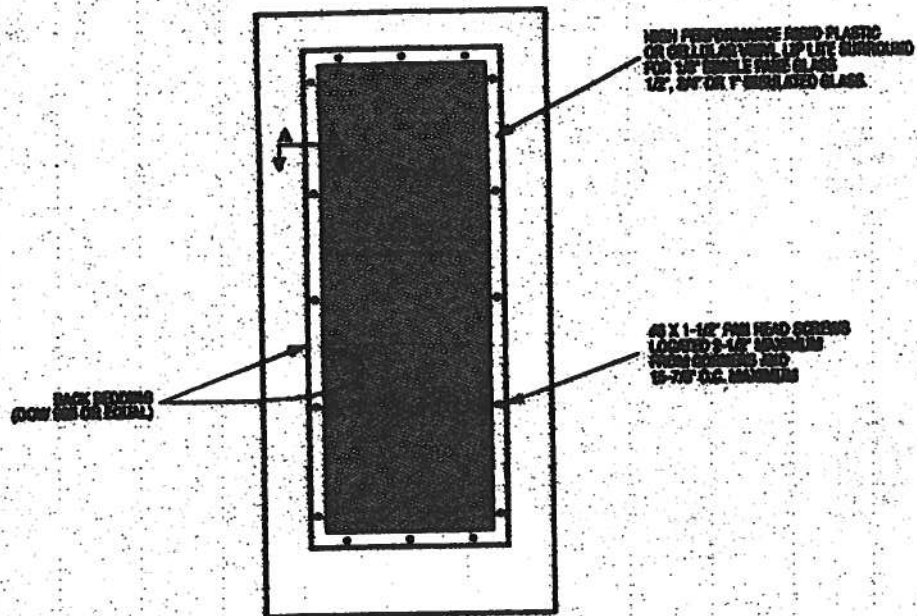
Our certifying program of product development, testing, qualification, design and product certification is subject to change without notice.



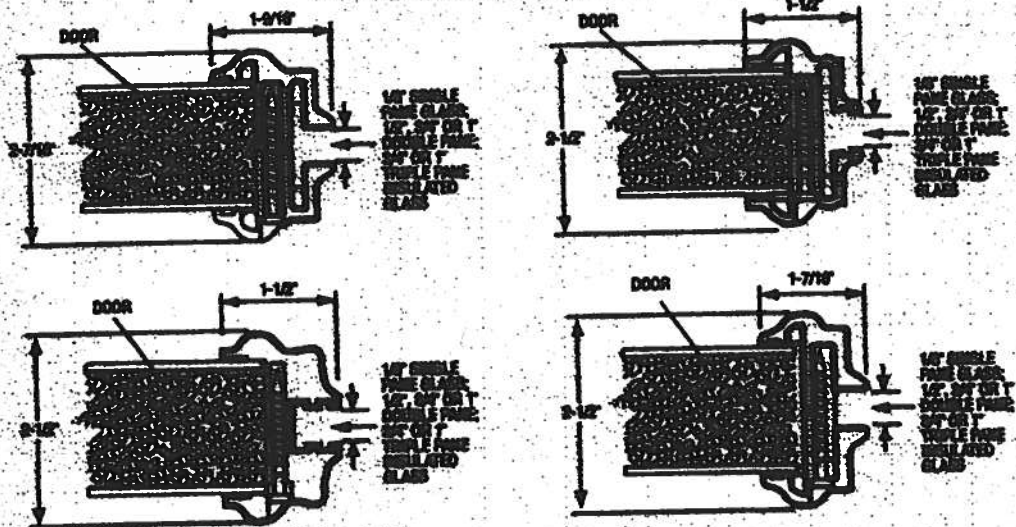
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GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP SURROUND



March 20, 2002
Continuing process of product improvement under specification.
Design and product detail subject to change without notice.

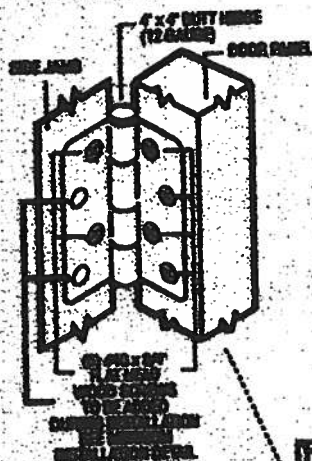


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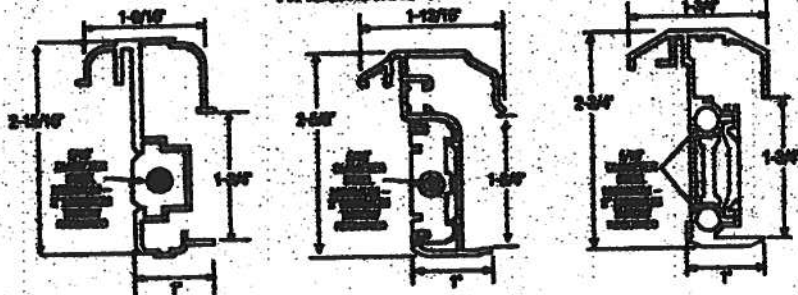
XX
Unit

OUTSWING UNITS WITH DOUBLE DOOR

TYPICAL HINGE ATTACHMENT

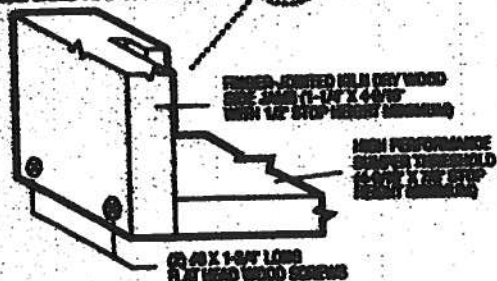


TYPICAL ASTRAGAL PROFILES

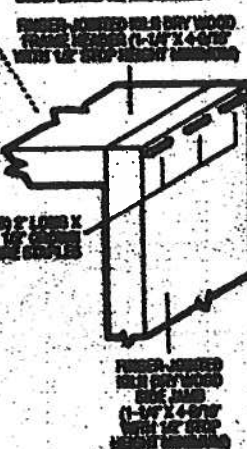


ALUMINUM EXTRUDED ASTRAGAL (1/8" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT WEBS AT TOP EXTENSION ONLY, BOTTOM EXTENSION ONLY AND CHANGING/REVERSAL LOCATIONS. ATTACH WITH 4 X 1" FIBER REINFORCED PLASTIC (FRP) BOLTS AND 2" O.C. BRACKETS.

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



TYPICAL HEADER & SIDE JAMB ATTACHMENT



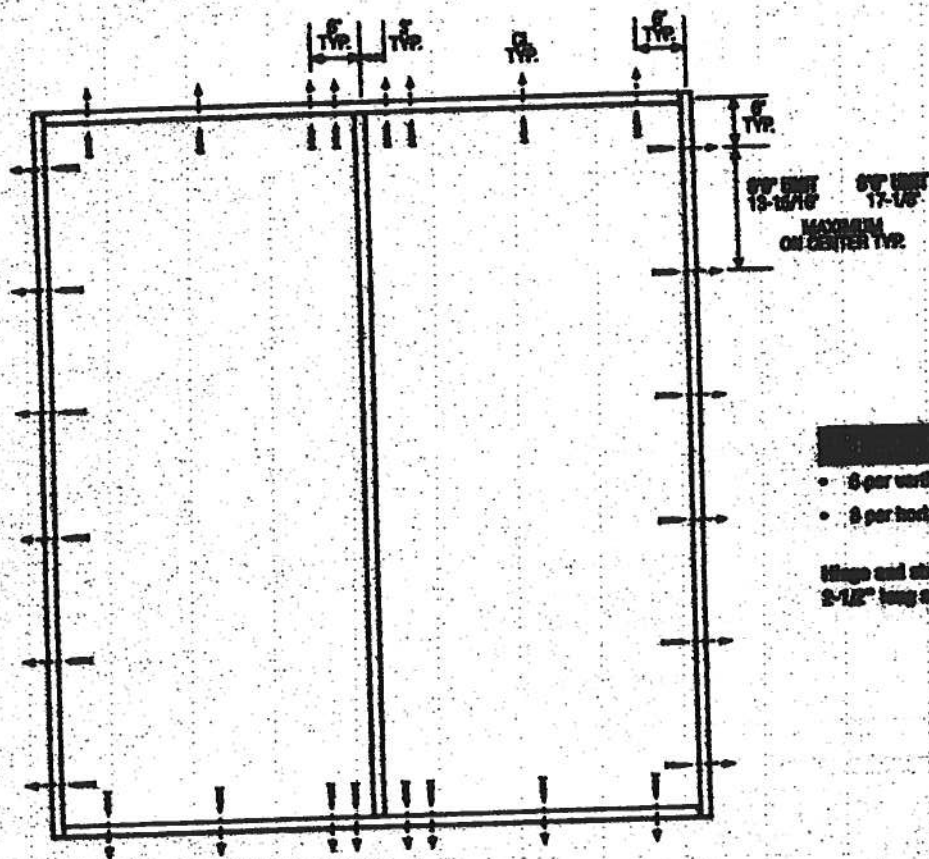
March 25, 2002
Our existing program of product improvement continues, and we are proud to keep our products safe and sound.

Exclusively from
PRETORIA
Premium Quality Doors
Masonite
Masonite International Corporation

XX
Unit

MD-31-MANU-2-02

DOUBLE DOOR



- 6 per vertical framing member
- 6 per horizontal framing member

Hinge and strike plates require two 2-1/2\"

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/ASMA A158.2) cylindrical and deadlock hardware be installed.

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\"
2. The wood screw single shear design values come from Table 11.3A of ANSI/APA & PA NDS for southern pine lumber with a side member thickness of 1-1/4\"
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 20, 2002

Our customers require a product improvement notice specification, design and product detail subject to change without notice.



Exclusively from

Masonite

Masonite International Corporation

Florida Building Code Online



Building Code Information System

FLORIDA BUILDING CODE

Overview User Registration Application Approval Organization Branch Accreditation

Select the organization type, status, or name to find an organization

Organization Product Manufacturer

Approval Status: (All)

Organization General American Door - Product Manufacturer

Cancel

Search

Result List for Organizations

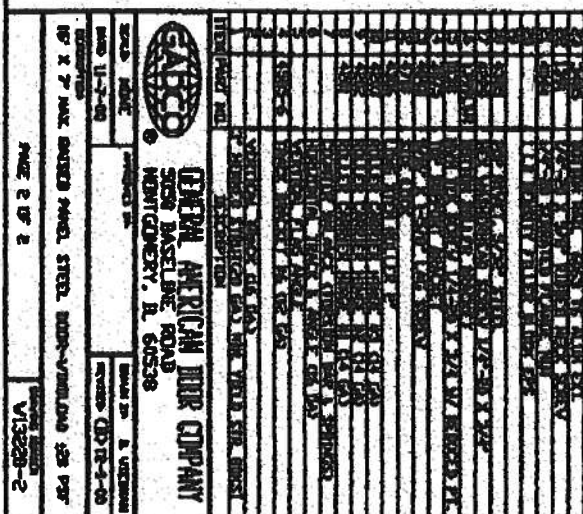
Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expires	Status
General American Door	Montgomery	James Campbell	6808591000	Product Manufacturer	01/01/2009	Approved
Org Code FDM	System ID# 3985	Site Link: www.gdca.com				

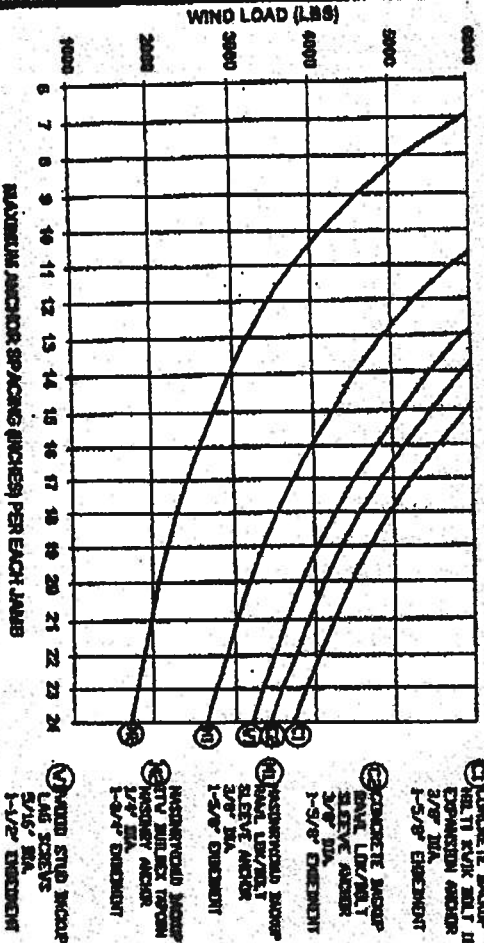
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Search Results: 1-1 of 1
 Search Criteria: Organization Type: Product Manufacturer
 Search Results: 1-1 of 1
 Search Results: 1-1 of 1

http://www.floridabuilding.org/Common/cse_org_reg_SRCH.asp



WIND LOAD VS. ANCHOR SPACING

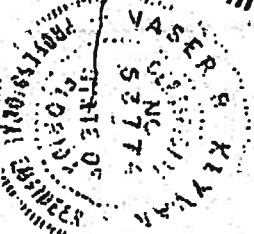
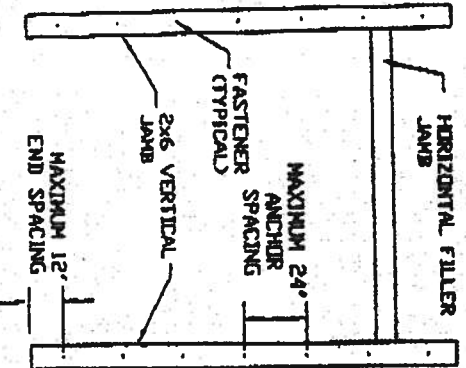


DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS) FT²

EXAMPLE

- 30 LBS X 6.6 FT WIDE X 8 FT HIGH = 3940 LBS FT²
- USE 22" SPACING
- USE 16" SPACING
- USE 10" SPACING
- USE 19" SPACING

SEE NOTE II FOR ADDITIONAL REQUIRED 2x6 VIND JAMB ANCHORS



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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

NOTES:

- ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH THE CONSIDERATION GIVEN TO DETAILATIONS USING CENTER "HARBORCARE" POSTS.
- ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCI STANDARD FOR HARBORCARE RESISTANT RESIDENTIAL CONSTRUCTION SSTB 10, CURRENT EDITION.
- ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- VIND FRAME, JAMB, STUDS AT EACH SIDE OF DOOR OPENING SHALL BE FULLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2x6 PRESSURE TREATED SOUTHERN PINE (S2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FLOODING TO DOUBLE TOP PLATE.
- REINFORCED CMU OR CONCRETE 2x6 VIND JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) 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 SIDES 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 TRIPLE 2x6 WALL STUDS.
- VASHERS ARE REQUIRED ON ALL FASTENERS.
- THE VIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 10' X 8' AT A MAXIMUM 42 PSF DESIGN VIND LOAD.
- FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2x6 VIND JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2x6 VIND JAMB ANCHORS, AND AN ADDITIONAL 2x6 VIND JAMB ANCHOR NEARER THAN STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO VIND JAMB ANCHORS.



3000 BASSETT DRIVE
MORTGROVE, IL 60550

DATE: 08-20-99	REVISED BY: DIV
JAMB TO STRUCTURE ATTACHMENT FOR VIND LOADED GARAGE DOORS	
ALB520	REVISIONS



FEB - 4 1992

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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.

- 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)

All testing was performed by Florida State certified independent labs.

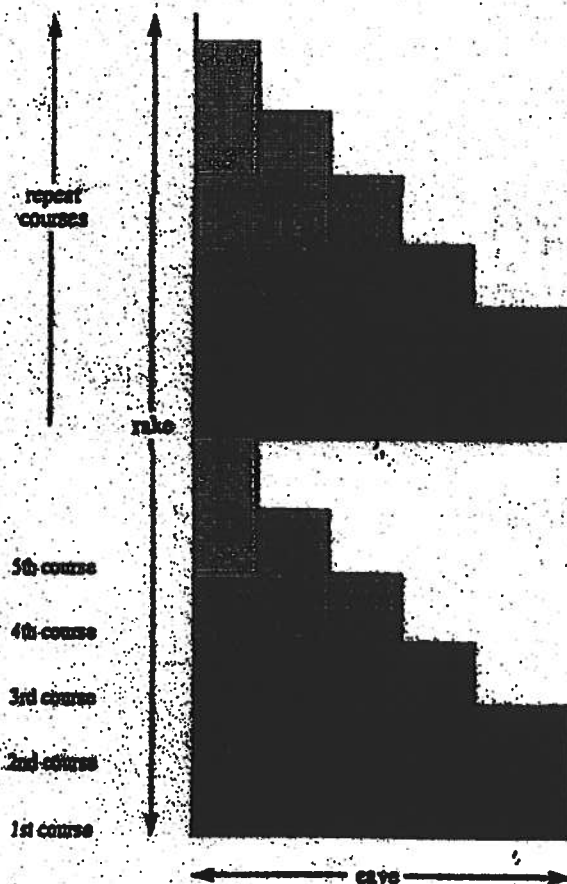
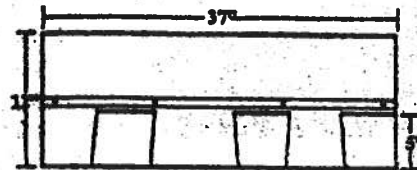
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

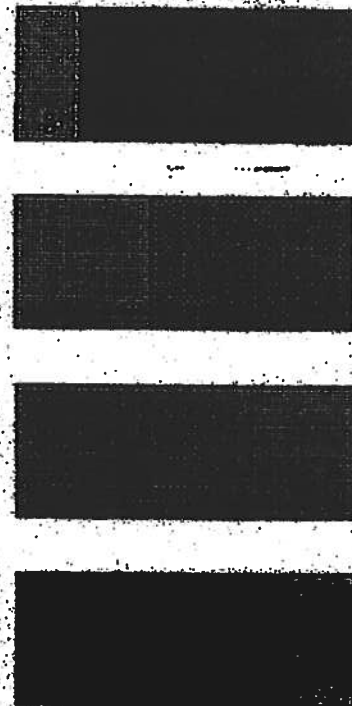


Application Instructions For Heritage® 25 Series Shingles

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.



Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- ### THREE-TAB ASPHALT 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 inclines 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. thick 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 #1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

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.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILS: 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

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

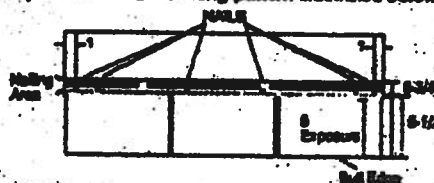
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from 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.

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below.)



2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 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 Mansard 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)

Visit Our Web Site at
www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801	800-641-4691
Northeast District	4500 Tamko Dr., Frederick, MD 21701	800-368-2066
Southeast District	2300 36th St., Tuscaloosa, AL 35401	800-228-2656
Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1834
Western District	6300 East 43rd Ave., Denver, CO 80216	800-530-6666

07/01

TAMKO

ROOFING PRODUCTS

(CONTINUED FROM Pg. 2)

- Glass-Seal
- Glass-Seal AR

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

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 5 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

K. RE-ROOFING

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-fasten in a new location. Remove all drip edge metal and replace with new.

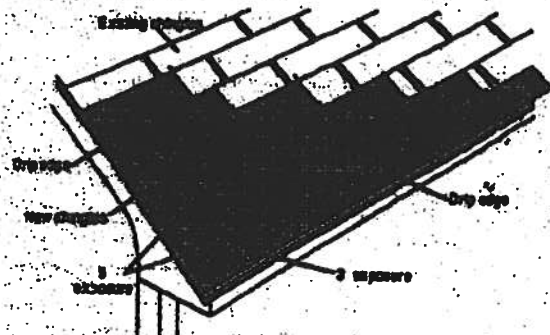
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tab 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 overlap 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 Course: 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 2.

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



take end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingles used in the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

S. 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 felt 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 primed 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 fastener should be within 6 in. of the valley centerline, and two 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 faster 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 in this product.

TAMKO assumes no responsibility for blistering.



(Continued)

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0701



(CONTINUED from Pg. 3)

• Glass-Seal
• Glass-Seal AR

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

THREE-TAB ASPHALT SHINGLES

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.

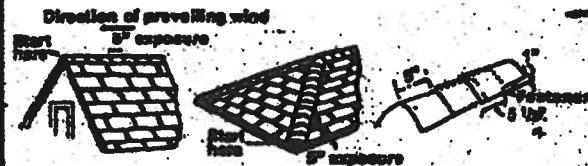
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHEN 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.



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

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 (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also 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.

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800-228-2656
800-443-1634
800-530-6868

07/01

Residential System Sizing Calculation

Summary

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

12/29/2005

Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
Total heating load calculation	33347 Btuh	Total cooling load calculation	41296 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	120.0 40000	Sensible (SHR = 0.75)	85.2 30000
Heat Pump + Auxiliary(0.0kW)	120.0 40000	Latent	163.9 10000
		Total (Electric Heat Pump)	96.9 40000

WINTER CALCULATIONS

Winter Heating Load (for 1590 sqft)

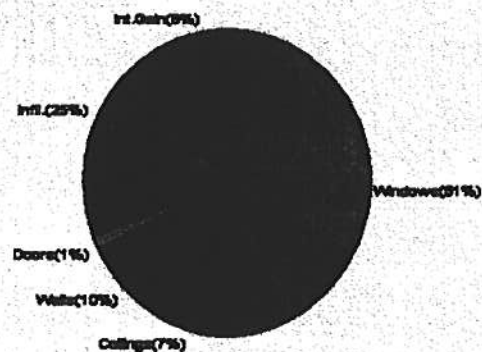
Load component		Load	
Window total	279 sqft	8971	Btuh
Wall total	1562 sqft	5131	Btuh
Door total	40 sqft	518	Btuh
Ceiling total	1590 sqft	1874	Btuh
Floor total	209 sqft	9125	Btuh
Infiltration	191 cfm	7729	Btuh
Duct loss		0	Btuh
Subtotal		33347	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		33347	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1590 sqft)

Load component		Load	
Window total	279 sqft	20913	Btuh
Wall total	1562 sqft	4018	Btuh
Door total	40 sqft	490	Btuh
Ceiling total	1590 sqft	2988	Btuh
Floor total		0	Btuh
Infiltration	167 cfm	4387	Btuh
Internal gain		2400	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		35195	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(Infiltration)		6101	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(Internal/occupants/other)		0	Btuh
Total latent gain		6101	Btuh
TOTAL HEAT GAIN		41296	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

12/29/2005

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	80.0	32.2	2575 Btuh
2	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
3	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
5	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	E	6.7	32.2	216 Btuh
7	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
9	2, Clear, Metal, 0.87	S	30.0	32.2	966 Btuh
Window Total			279(sqft)		8971 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1195	3.3	3925 Btuh
2	Frame - Wood - Adj(0.09)	13.0	367	3.3	1205 Btuh
Wall Total			1562		5131 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			40		518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1590	1.2	1874 Btuh
Ceiling Total			1590		1874 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	209.0 ft(p)	43.7	9125 Btuh
Floor Total			209		9125 Btuh
Zone Envelope Subtotal:					25619 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	14310	190.8	7729 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				33347 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

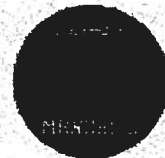
Code Only
Professional Version
Climate: North

12/29/2005

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	33347 Btuh 0 Btuh 33347 Btuh
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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 - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

12/29/2005

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	80.0	32.2	2575 Btuh
2	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
3	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
5	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	E	6.7	32.2	216 Btuh
7	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
9	2, Clear, Metal, 0.87	S	30.0	32.2	966 Btuh
Window Total			279(sqft)		8971 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1195	3.3	3925 Btuh
2	Frame - Wood - Adj(0.09)	13.0	367	3.3	1205 Btuh
Wall Total			1562		5131 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			40		518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1590	1.2	1874 Btuh
Ceiling Total			1590		1874 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	209.0 ft(p)	43.7	9125 Btuh
Floor Total			209		9125 Btuh
Zone Envelope Subtotal:					25619 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	14310	190.8	7729 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				33347 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

12/29/2005

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	33347 Btuh 0 Btuh 33347 Btuh
--	--	------------------------------------

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 - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/29/2005

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	W	7.5ft	9ft.	80.0	48.7	33.3	35	88	4488	Btuh	
2	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	60.0	0.0	60.0	35	88	5136	Btuh	
3	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	20.0	0.0	20.0	35	35	701	Btuh	
4	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	16.0	0.0	16.0	35	35	561	Btuh	
5	2, Clear, 0.87, None,N,N	E	6.5ft	9ft.	30.0	8.4	21.6	35	88	2145	Btuh	
6	2, Clear, 0.87, None,N,N	E	11.5ft	9ft.	6.7	6.7	0.0	35	88	235	Btuh	
7	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	30.0	0.0	30.0	35	88	2568	Btuh	
8	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	6.0	6.0	0.0	35	40	210	Btuh	
9	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	30.0	30.0	0.0	35	40	1052	Btuh	
	Excursion									3818	Btuh	
	Window Total				279 (sqft)					20913 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		1195.3			2.7		3236 Btuh		
2	Frame - Wood - Adj		13.0/0.09		367.0			2.1		782 Btuh		
	Wall Total				1562 (sqft)					4018 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Adjacent				20.0			12.3		245 Btuh		
2	Insulated - Exterior				20.0			12.3		245 Btuh		
	Door Total				40 (sqft)					490 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		1590.0			1.9		2988 Btuh		
	Ceiling Total				1590 (sqft)					2988 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		209 (ft(p))			0.0		0 Btuh		
	Floor Total				209.0 (sqft)					0 Btuh		
			Zone Envelope Subtotal:								28409 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural		0.70		14310			167.0		4387 Btuh		
Internal gain			Occupants		Btuh/occupant			Appliance		Load		
			0		X 230 +			2400		2400 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh	
			Sensible Zone Load								35195 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

12/29/2005

Whole House Totals for Cooling	Sensible Envelope Load All Zones	35195 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	35195 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	35195 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	6101 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6101 Btuh
	TOTAL GAIN	41296 Btuh

*Key: Window types (Pn - Number of panes of glass)
(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(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/29/2005

Window	Type*	Pr/SHGC/U-In/Sh/Ex/Sh/S	Omt	Overhang		Window Area(sqft)			HTM		Load
				Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N		W	7.5ft	9ft.	80.0	48.7	33.3	35	88	4488 Btuh
2	2, Clear, 0.87, None,N,N		W	1.5ft	9ft.	60.0	0.0	60.0	35	88	5136 Btuh
3	2, Clear, 0.87, None,N,N		N	1.5ft	9ft.	20.0	0.0	20.0	35	35	701 Btuh
4	2, Clear, 0.87, None,N,N		N	1.5ft	9ft.	16.0	0.0	16.0	35	35	561 Btuh
5	2, Clear, 0.87, None,N,N		E	6.5ft	9ft.	30.0	8.4	21.6	35	88	2145 Btuh
6	2, Clear, 0.87, None,N,N		E	11.5ft	9ft.	6.7	6.7	0.0	35	88	235 Btuh
7	2, Clear, 0.87, None,N,N		E	1.5ft	9ft.	30.0	0.0	30.0	35	88	2568 Btuh
8	2, Clear, 0.87, None,N,N		S	1.5ft	9ft.	6.0	6.0	0.0	35	40	210 Btuh
9	2, Clear, 0.87, None,N,N		S	1.5ft	9ft.	30.0	30.0	0.0	35	40	1052 Btuh
Excursion											3818 Btuh
Window Total						279 (sqft)					20913 Btuh
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		1195.3		2.7		3236 Btuh			
2	Frame - Wood - Adj	13.0/0.09		367.0		2.1		782 Btuh			
Wall Total				1562 (sqft)				4018 Btuh			
Doors	Type	Area (sqft)		HTM		Load					
1	Insulated - Adjacent	20.0		12.3		245 Btuh					
2	Insulated - Exterior	20.0		12.3		245 Btuh					
Door Total				40 (sqft)		490 Btuh					
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle	30.0		1590.0		1.9		2988 Btuh			
Ceiling Total				1590 (sqft)				2988 Btuh			
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		209 (ft(p))		0.0		0 Btuh			
Floor Total				209.0 (sqft)				0 Btuh			
Zone Envelope Subtotal:										28409 Btuh	
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	Sensible/Natural	0.70		14310		167.0		4387 Btuh			
Internal gain	Occupants	Btuh/occupant		Appliance		Load					
	0	X 230 +		2400		2400 Btuh					
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh
Sensible Zone Load										35195 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

George & Fay Small
Anderson Road
Lake City, FL 32025-

Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

12/29/2005

Whole House Totals for Cooling	Sensible Envelope Load All Zones	35195 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	35195 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	35195 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	6101 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6101 Btuh
	TOTAL GAIN	41296 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

George & Fay Small
Anderson Road
Lake City, FL 32025-

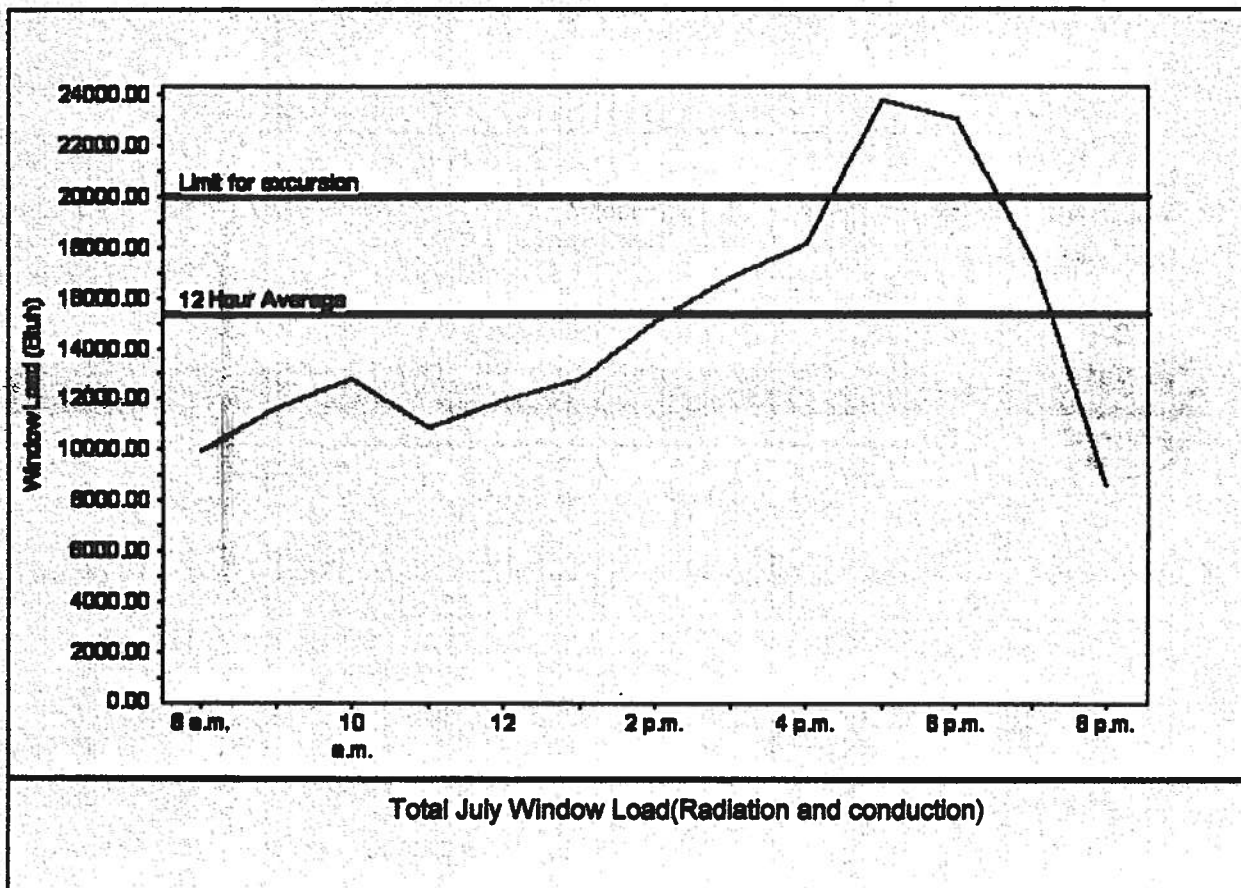
Project Title:
Isaac Construction - Small Res.

Code Only
Professional Version
Climate: North

12/29/2005

Summer design temperature	99 F	Average window load for July	15381 Btu
Summer setpoint	75 F	Peak window load for July	23813 Btu
Summer temperature difference	24 F	Excursion limit(130% of Ave.)	19995 Btu
Latitude	29 North	Window excursion (July)	3818 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

EnergyGauge® FLRCPB v4.1



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☒ Wood

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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 footing 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 (termicide or alternative method)
 - 10. Slab on grade
 - a. Vapor retarder (6mil. 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)

☐ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termites treatment (termicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

☒ ☐ Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

☒ ☐ Plumbing Fixture layout

☒ ☐ Electrical layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment

☒ ☐ HVAC information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

☒ ☐ Energy Calculations (dimensions shall match plans)

☒ ☐ Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

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:1SU6487-Z0326173147

Truss Fabricator: Anderson Truss Company
Job Identification: 6-009-ISAAC CONSTRUCTION / SMALL
Truss Count: 40
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.22.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: A11015EE-GBLLETIN-BRCLBSUB-CNBRGBLK-

Seal Date: 01/26/2006

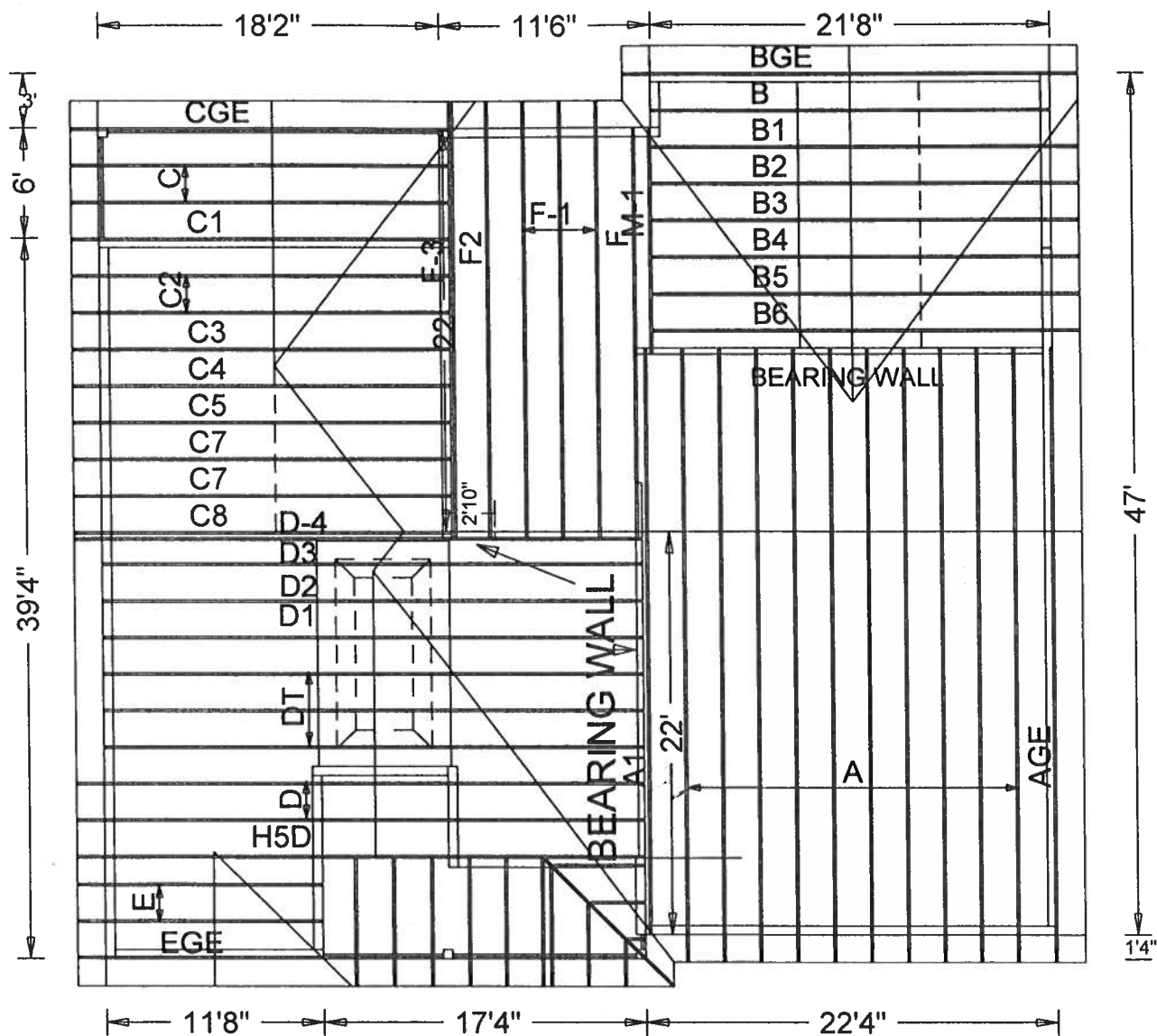
-Truss Design Engineer-
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	50803--AGE		06026018	01/26/06
2	50804--A		06026019	01/26/06
3	50805--A1		06026020	01/26/06
4	50806--BGE		06026021	01/26/06
5	50807--B2		06026022	01/26/06
6	50808--B3		06026023	01/26/06
7	50809--B4		06026024	01/26/06
8	50810--B5		06026025	01/26/06
9	50811--B6		06026026	01/26/06
10	50812--B		06026013	01/26/06
11	50813--B1		06026027	01/26/06
12	50814--C8		06026014	01/26/06
13	50815--C		06026015	01/26/06
14	50816--C1		06026016	01/26/06
15	50817--C7		06026028	01/26/06
16	50818--C7		06026029	01/26/06
17	50819--CGE		06026030	01/26/06
18	50820--C2		06026031	01/26/06
19	50821--C3		06026032	01/26/06
20	50822--C4		06026033	01/26/06
21	50823--C5		06026034	01/26/06
22	50824--H50		06026035	01/26/06
23	50825--D		06026036	01/26/06
24	50826--DT		06026037	01/26/06
25	50827--D1		06026038	01/26/06
26	50828--D2		06026039	01/26/06
27	50829--D3		06026040	01/26/06
28	50830--D-4		06026049	01/26/06
29	50831--EGE		06026050	01/26/06
30	50832--E		06026017	01/26/06
31	50833--F-3		06026042	01/26/06
32	50834--F-1		06026051	01/26/06
33	50835--F2		06026052	01/26/06
34	50836--F		06026041	01/26/06
35	50837--CJ1		06026043	01/26/06
36	50838--HJ50600		06026044	01/26/06

#	Ref	Description	Drawing#	Date
37	50839--CJ3		06026045	01/26/06
38	50840--CJ5		06026046	01/26/06
39	50841--EJ50600		06026047	01/26/06
40	50842--M-1		06026048	01/26/06





ISAAC CONSTRUCTION / SMALL

Roof Plane Sheathing Area = 3089 sq. ft
 Gable Sheathing Area = 176 sq. ft
 Total Sheathing Area = 3265 sq. ft
 Fascia Material = 220 linear ft
 Valley Flashing Material = 185 linear ft
 Ridge Cap Material = 101 linear ft
 Hip Ridge Material = 35 linear ft

719-7143

JOB LOCATION:

JOB DESCRIPTION:
 ISAAC CONSTRUCTION / SMALL

DESIGNED BY:
 SHAWN ANDERSON

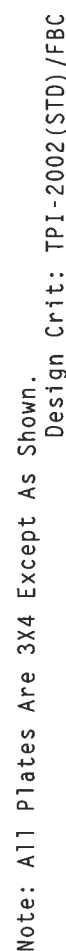
JOB NO:
 6-009

PAGE NO:
 1 OF 1

FL Certificate of Authorization # 567	OUTSTANDING ORDER(S) PER ANSI/HF 1 SEC. 2.	SPACING	Z 4.0	JKEF - TSU648/-Z03
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Right end vertical not exposed to wind pressure.

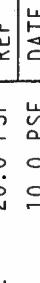
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



CC BY-NC-ND 4.0 International license.

100% CASH ON DELIVERY: 1

Scale = .1875"/Ft.



ALPINE
Engineered Products, Inc.
 1950 Marney Drive
 Haines City, FL 33844

FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03, (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PRESS, 303 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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****URNISH 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 STEEL. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W.H/S/K) 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-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF 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.

STATE OF FLORIDA

PROFESSIONAL ENGINEER

No. 55887

Jan 26, 2006

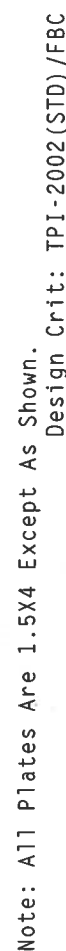
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TOT.LD.	40.0	PSF	SEQN-	13200
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	15U6487_203

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Shim all supports to solid bearing.

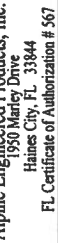
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

+ MEMBER TO BE Laterally Braced for Horizontal Wind Loads.
Bracing System to be Designed and Furnished by Others.



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

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE PRODUCTS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH NATIONAL DESIGN SPEC. (A 7/1) ALPINE ALPINE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC DESIGN (A 7/1) GALV. STEEL APPLY TO EACH OF THE 20/10 JOISTS (4"X12) WITH AISC DESIGN (A 7/1) GALV. STEEL APPLY TO EACH OF THE TRUSSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND SEALS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE SEAL ON THIS 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.



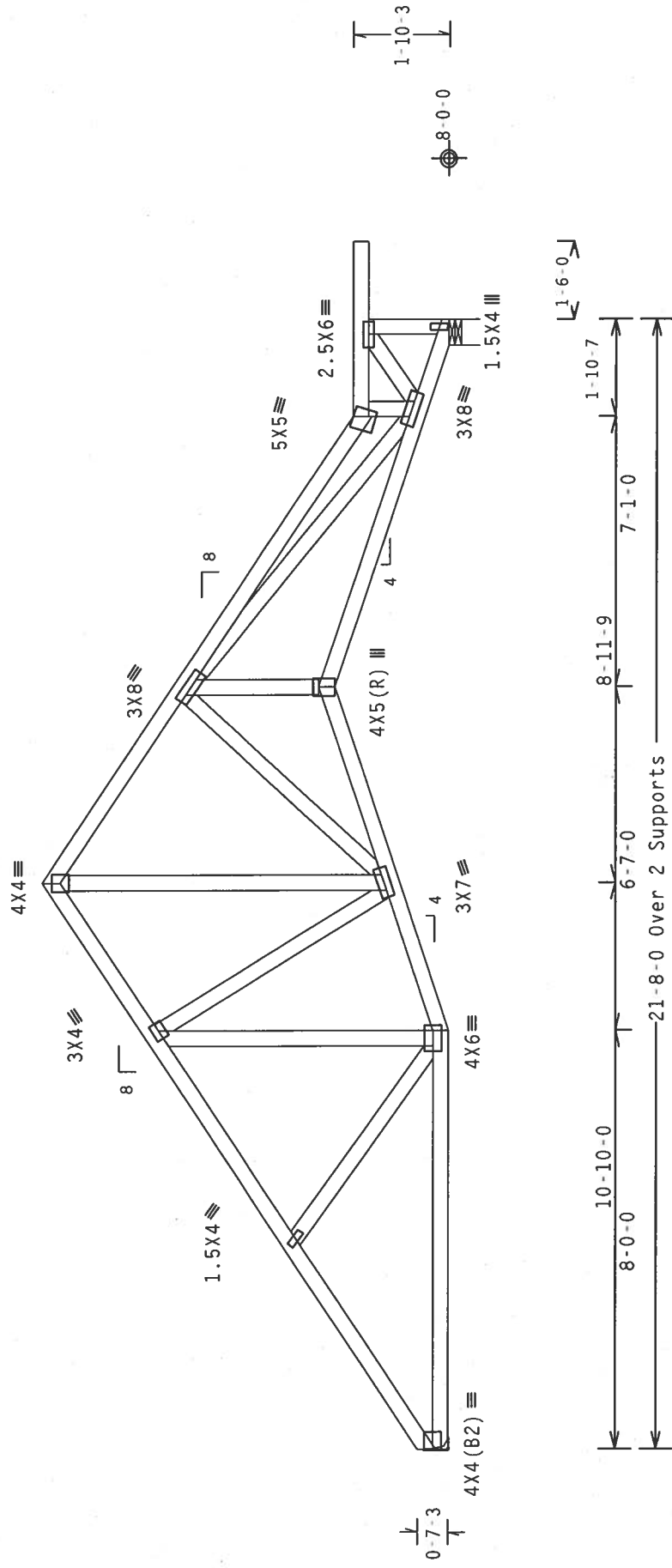
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BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	13400	REV
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1SU6487_Z03	

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



R=913 U=180 H-Simpson LUS26
w/ (3) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

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

Alpine Engineering Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

PLT TYP. Wave

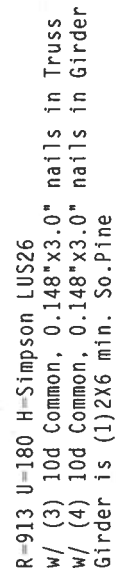
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 MADISON, WISCONSIN 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMANCE. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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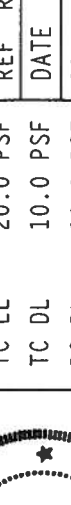
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BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	13118	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

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.



Scale = .3125" / Ft.

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	TC DL	10.0 PSF	DATE 01/26/06
	BC DL	10.0 PSF	DRW HCURS487 06026023
	BC LL	0.0 PSF	HC-ENG JB/AF
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DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1SU6487_Z03

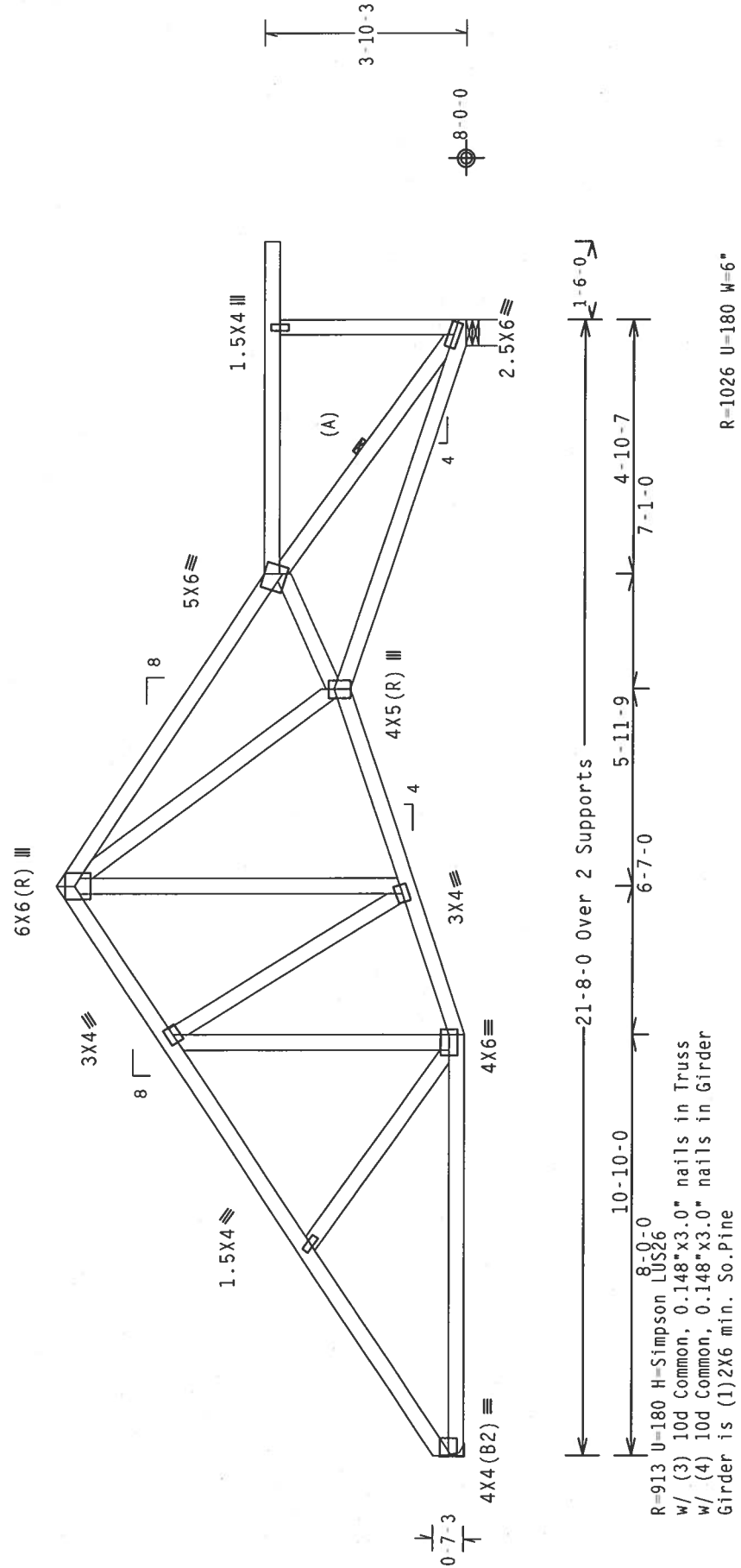
Top chord	2x4	SP #2	Dense	110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
Bot chord	2x4	SP #2	Dense	
Webbs	2x4	SP #3		

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

(A) Continuous lateral bracing equally spaced on member.

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.

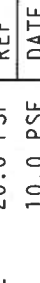
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=1026 U=180 W=6"

PLT TYP. Wave

Scale = .3125" / Ft.



ALPINE
Engineered Products, Inc.
1950 Waring
Haines City, FL 33844
FL Certificate of Authorization # 567

	REF	R487--	50809	
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	DRW	HCUSR487	06026024	
	HC-ENG	JB/AF		
	SEQN-	13220		
	TOT.LD.	40.0	PSF	
	DUR.FAC.	1.25		
	SPACING	24.0"		

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

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) 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 NOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPII 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Jan 26 '06

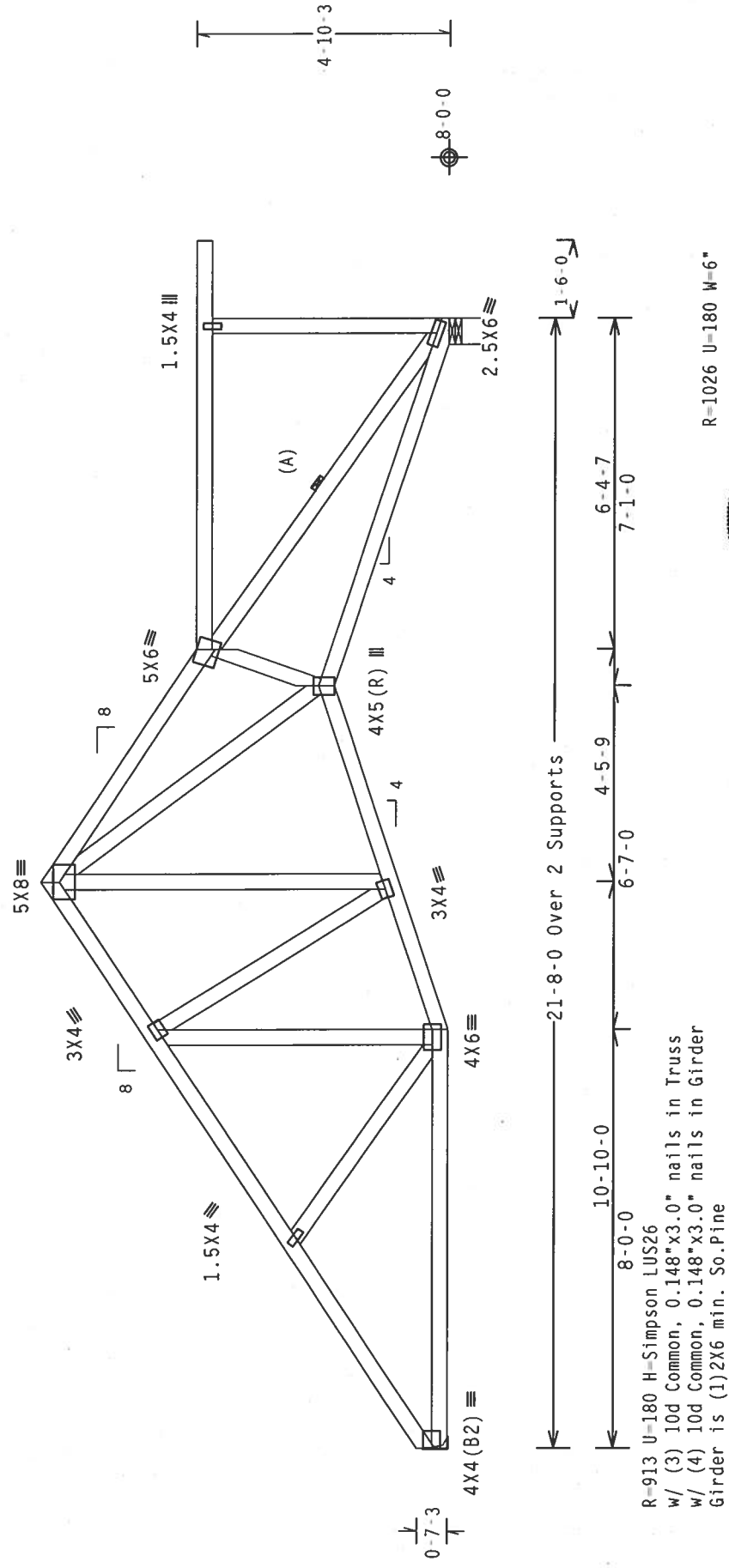
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

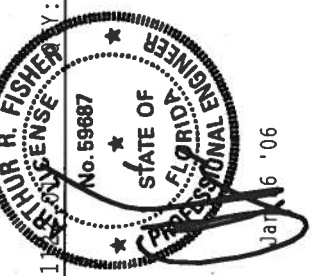
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

(A) Continuous lateral bracing equally spaced on member.



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



****WARNING**** TRUSSES REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1.0 (BUILDING CODES) AND BCSI 2.0 (BUILDING CODES) FOR ADDITIONAL INFORMATION. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

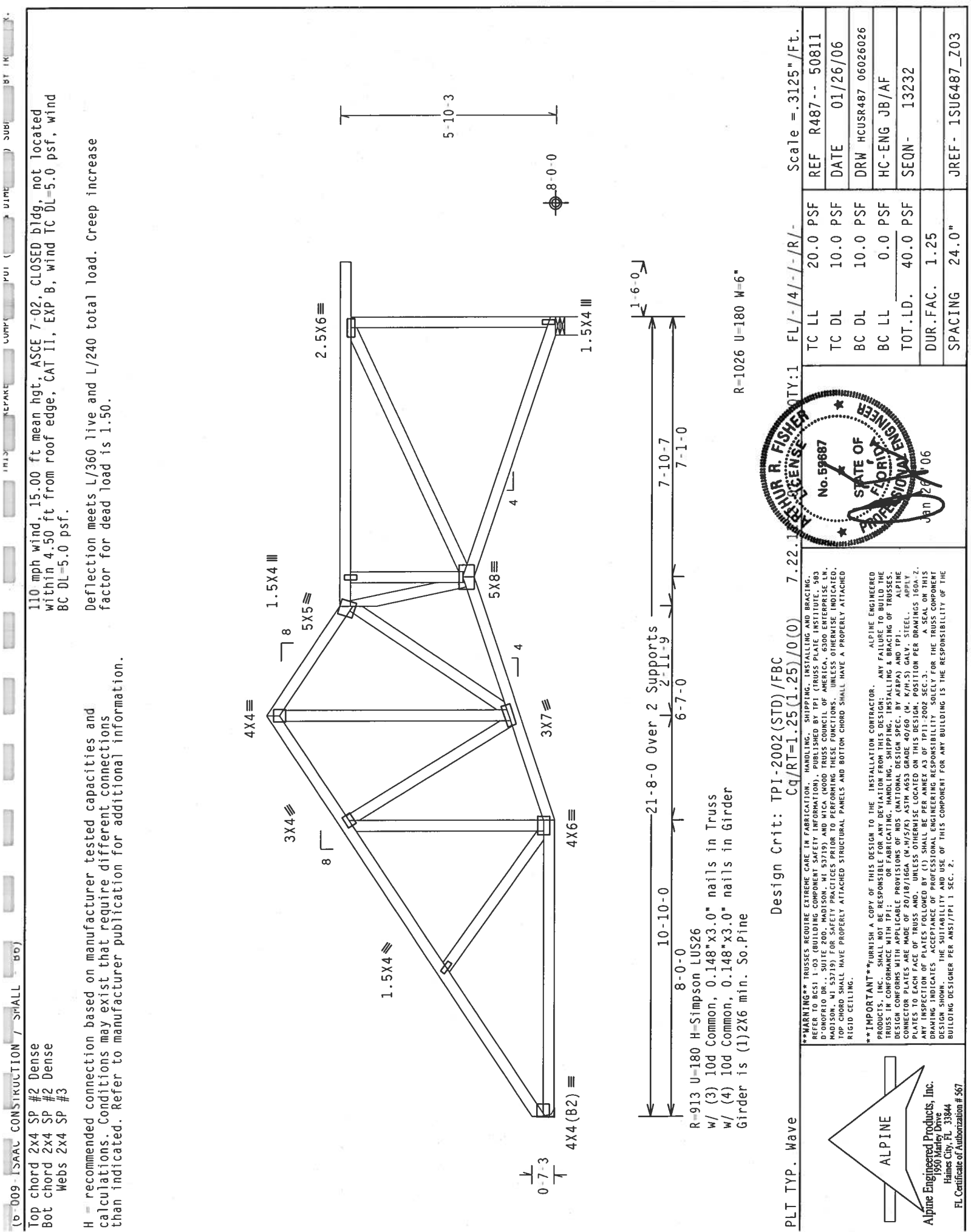
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M. 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 DESIGN SHOWS THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SIGNATURE AND SEAL OF THE DESIGNER SHALL BE USED FOR THE TRUSS COMPONENT. THE BUILDING DESIGNER PER ANNEX A3 OF TPI-2002 SEC.3.

ALPINE

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

FL Certificate of Authorization # 567

TC LL	20.0 PSF	FL / - / 4 / - / R / -	Scale = .3125" / Ft.
TC DL	10.0 PSF		REF R487 - - 50810
BC DL	10.0 PSF		DATE 01/26/06
BC LL	0.0 PSF		DRW HCUSR487 06026025
TOT.LD.	40.0 PSF		HC-ENG JB/AF
DUR.FAC.	1.25		SEQN- 13225
SPACING	24.0"		JREF- 1SU6487_Z03



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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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.

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

PLT TYP. Wave

Scale = .3125"/Ft.

REF R487-- 50811
DATE 01/26/06
DRW HCUSR487 06026026
HC-ENG JB/AF
SEQN- 13232
JREF- 1SU6487_Z03

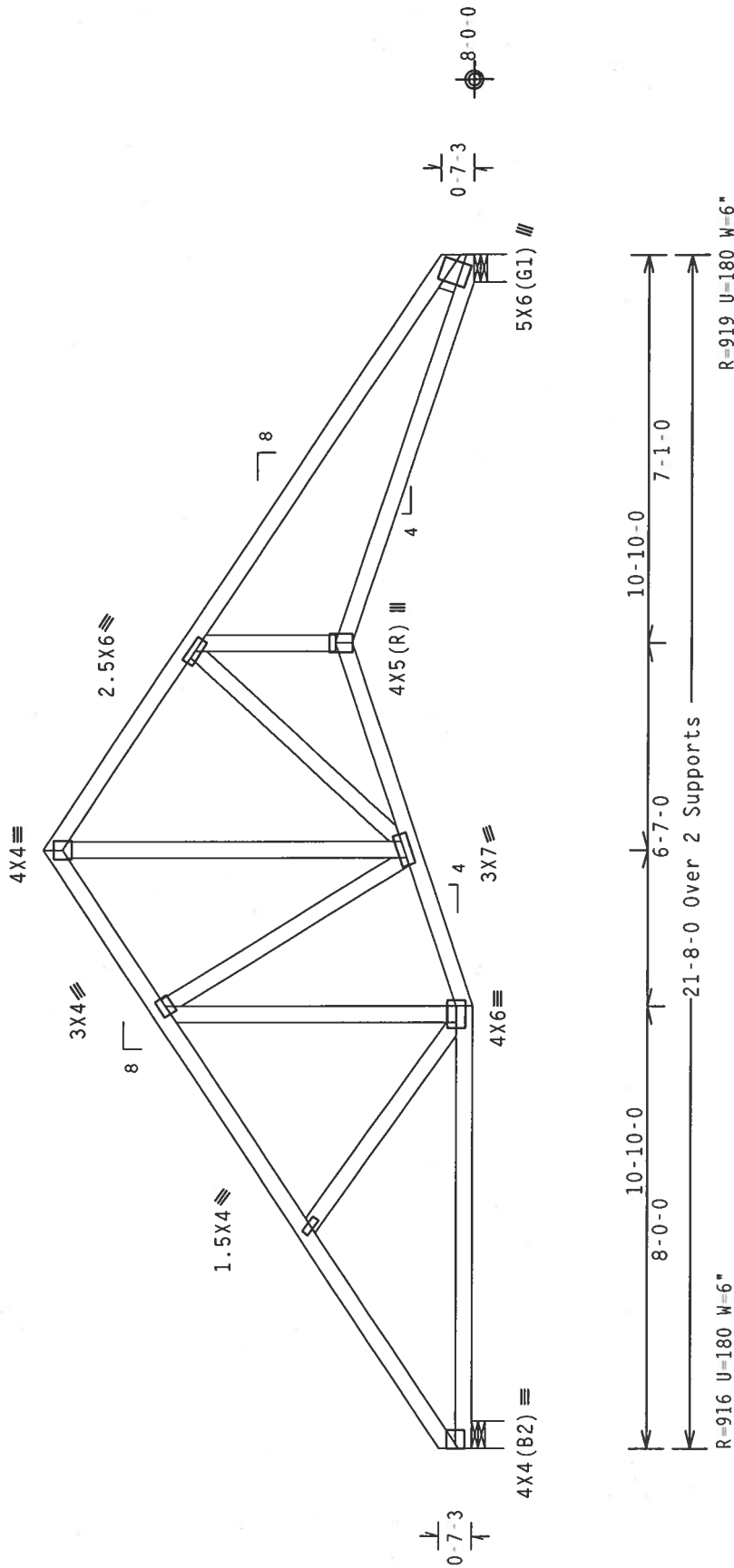
ALPINE
Alpine Engineered Products, Inc.
1950 Manley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Professional Engineer
No. 59887
STATE OF FLORIDA
JAN 26 2006

Top chord	2x4	SP #2	Dense	110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
Bot chord	2x4	SP #2	Dense	
	webs	2x4	SP #3	

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Design Crit: $\text{TPI-2002(STD)}/\text{FBC}$
 $\text{Cq}/\text{RT}=1.25(1.25)/$

Scale = .3125"/Ft.

Scale = .3125"/Ft.
REF R487-- 50812

DATE 01/26/06

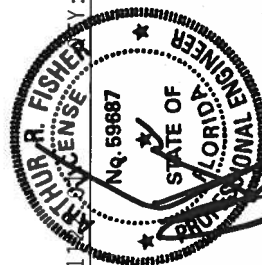
ORW HCUSR487 06026013

HC-ENG JB/AF

CEON- 13107

NOTES

C
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 T
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 C
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 L
 L
 C



Jan 26 '06

***WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPTI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PROVIDE A SUMMARY OF RESPONSIBILITY FOR DETAIL FROM THIS DESIGN. ANY FAILURE TO FULFILL THESE OBLIGATIONS WILL BE CONSIDERED AS AN ACCEPTANCE OF THE TRUSS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC.) AND ANTP. CONNECTOR PLATES ARE MADE OF 20X18X1/8GA W/ 6X1/8IN ASTM A563 GRADE 40/60 (W/ K/H SI) GALV. STEEL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 43 OF TP11-2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS1/P11-1 SEC. 2.



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1950 Marley Drive
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FL Certificate of Authorization # 567

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.



MUR R. FISHER
FLORIDA
LICENSE

TYPY: 1 FL - / A - / - / R -
Scale = .25"/Ft.

TC LL	20.0 PSF	REF R487-- 50813
TC DL	10.0 PSF	DATE 01/26/06
BC DL	10.0 PSF	DRW HCURS487 06026027
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 13112
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SU6487_Z03



ALPINE

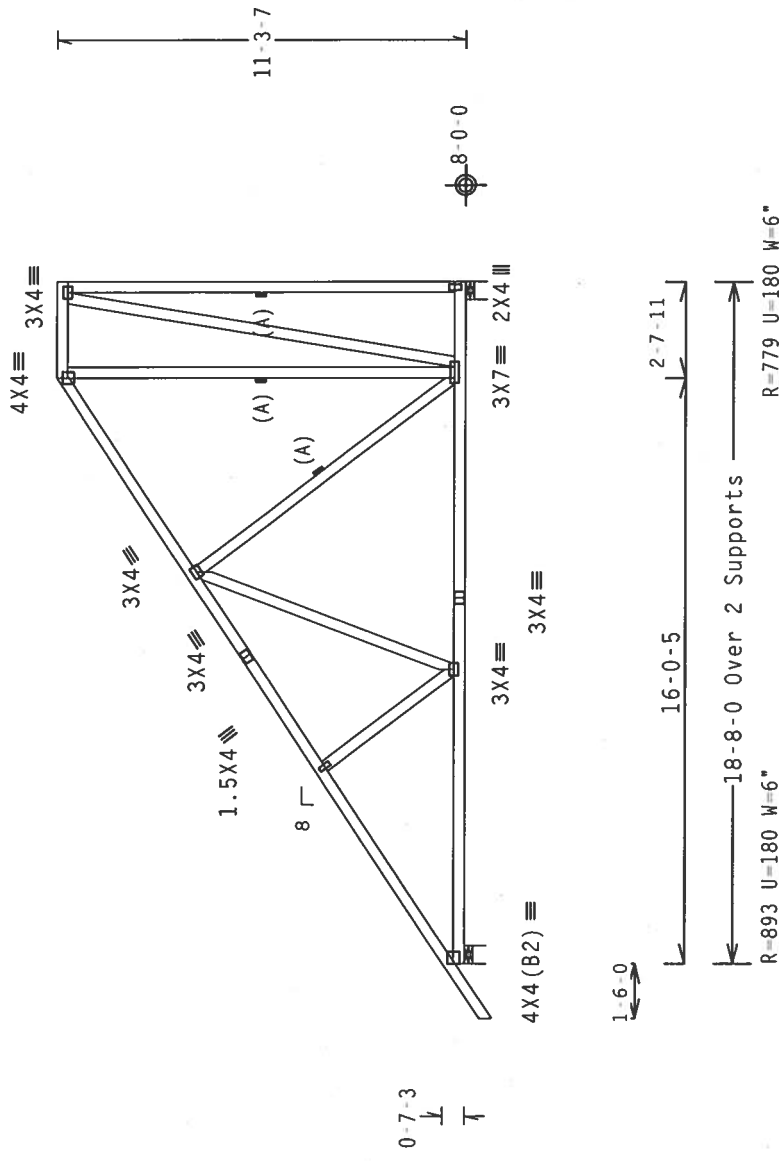
Alpine Engineered Products, Inc.
 1950 Marley Drive
 Haines City, FL 33844
 FL Certificate of Authorization # 567

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

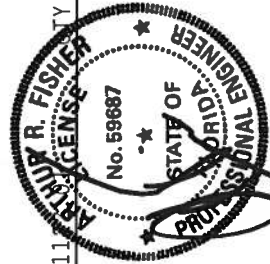
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

FL - 4 - 1 - R / -
Scale = .1875" / Ft.

TC LL	20.0	PSF	REF	R487--	50814
TC DL	10.0	PSF	DATE	01/26/06	
BC DL	10.0	PSF	DRW	HCUSR487	06026014
BC LL	0.0	PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0	PSF	SEQN-	13287	
DUR.FAC.	1.25				
SPACING	24.0"				JREF- 1SU6487_Z03



ALPINE

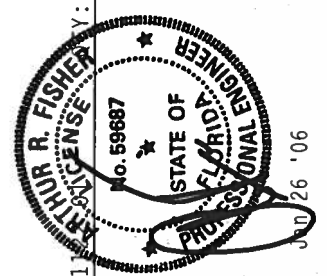
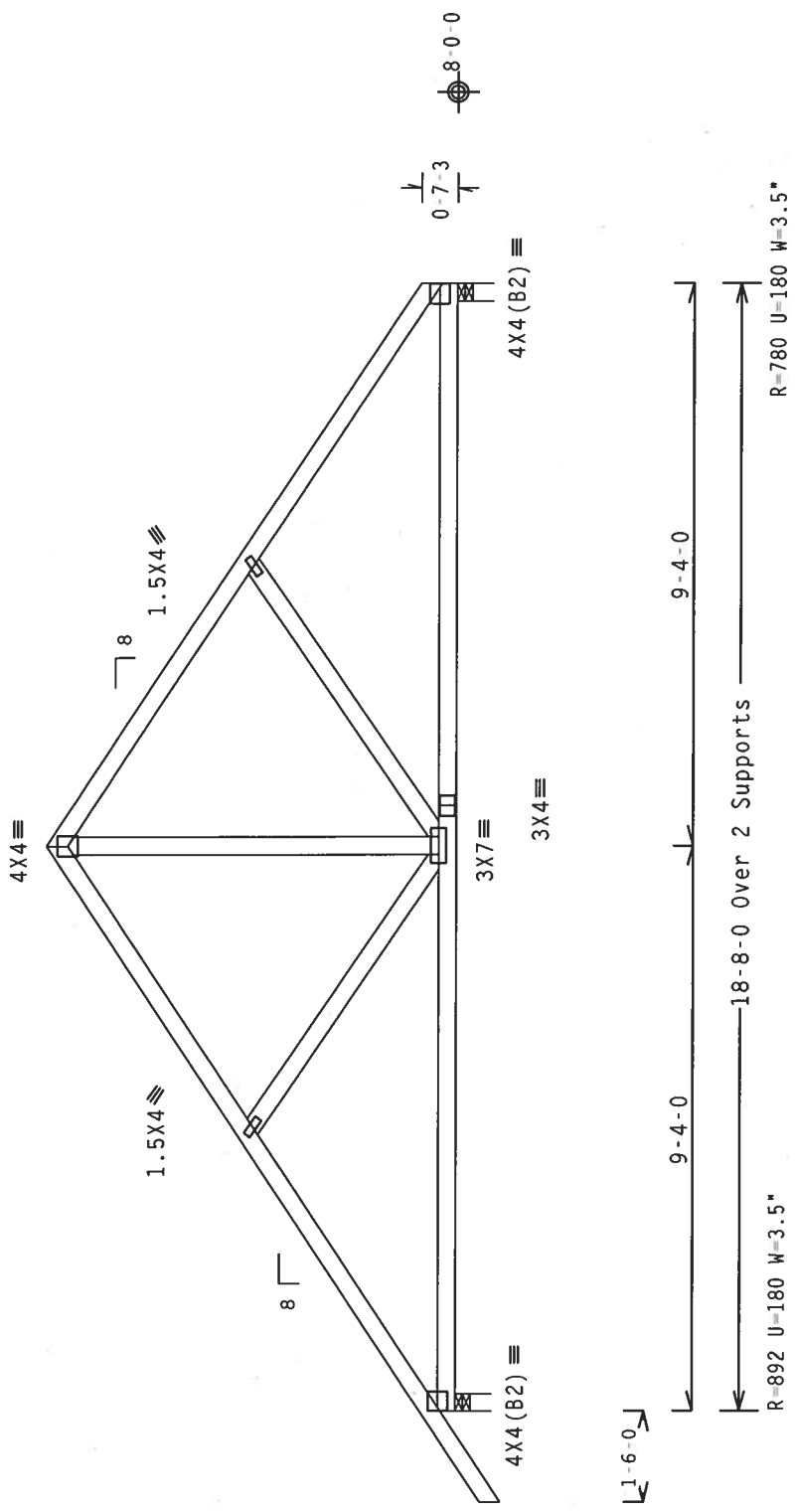
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

FL Certificate of Authorization # 567	ORDERING DELIVERYMAN: TEN HAN, JAMES L. JR.	SPACING 24.0"	JREF - ISU6487/_Z03
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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. Creep increase factor for dead load is 1.50.

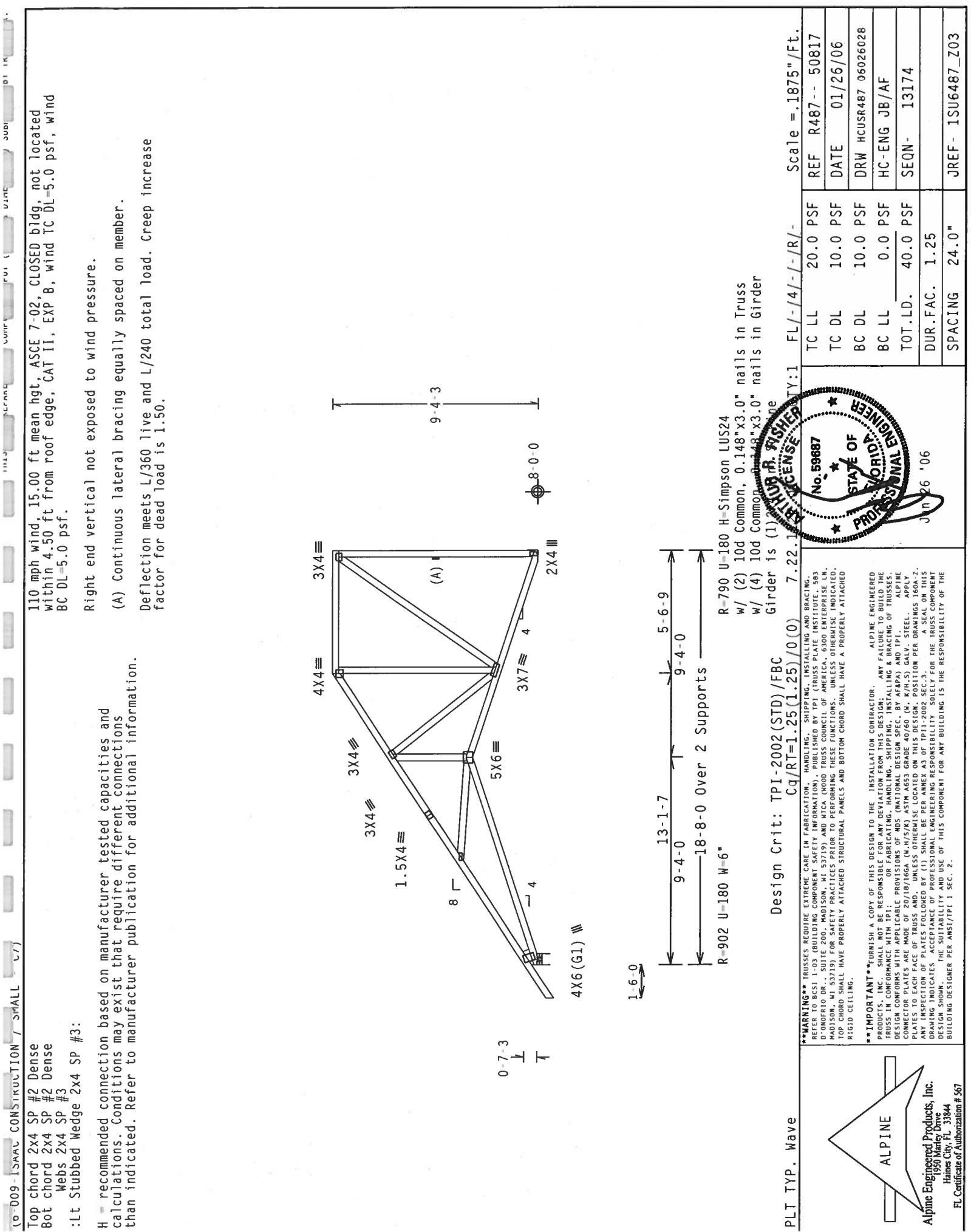
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.25(1.25)/0(0)	7.22.11	FL/-/4/-/R/-	Scale = .3125"/Ft.
			TC LL	20.0 PSF
			TC DL	10.0 PSF
			BC DL	10.0 PSF
			BC LL	0.0 PSF
			TOT.LD.	40.0 PSF
			DUR.FAC.	1.25
			SPACING	24.0"
			REF	R487-- 50816
			DATE	01/26/06
			DRW	HCUSR487 06026016
			HC-ENG	JB/AF
			SEON-	13146
			JREF-	1SU6487_Z03

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS 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 (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

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. Creep increase factor for dead load is 1.50.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Lt Stubby Wedge 2x4 SP #3:

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

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

R-790 U-180 H-Simpson LUS24
w/ (2) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1) 10d

Scale = .1875"/Ft.

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

PLT TYP. Wave

ALPINE

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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

0-7-3
1.6-0
9-4-0
13-1-7
9-4-0
18-8-0 Over 2 Supports
5-6-9
9-4-0
4X6 (G1)
1.5X4
3X4
3X4
4X4
3X4
5X6
3X7
2X4
9-4-3
8-0-0

0-009-13AAC CONSTRUCTION / SMALL C1

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Lt Stubby Wedge 2x4 SP #3:

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

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

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. Creep increase factor for dead load is 1.50.

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

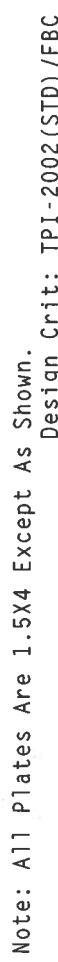
R-790 U-180 H-Simpson LUS24
w/ (2) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1) 10d

Scale = .1875"/Ft.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

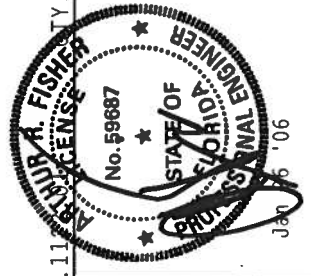
		(LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)
TC	From	86 PLF at 1.50 to 86 PLF at 18.60
8C	From	5 PLF at 1.50 to 20 PLF at 18.67



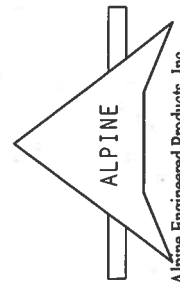
Design Crit: TPI-2002(STD)/FBC

IFT-2002(S10)/FBC	7.22.11
Cq/RT=1.25(1.25)/0(0)	7.22.11

TC LL	20.0	PSF	REF R487--	50819
TC DL	10.0	PSF	DATE	01/26/06
BC DL	10.0	PSF	DRW HCUSR487	06026030
BC LL	0.0	PSF	HC-ENG JB/AF	
TOT.LD.	40.0	PSF	SEQN-	13207 REV
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1SU6487_Z03



****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 DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. B), AISC (STEEL CONSTRUCTION MANUAL), AND ANY OTHER APPLICABLE CODES SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ALL STEEL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4.3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TP11 SEC. 2.



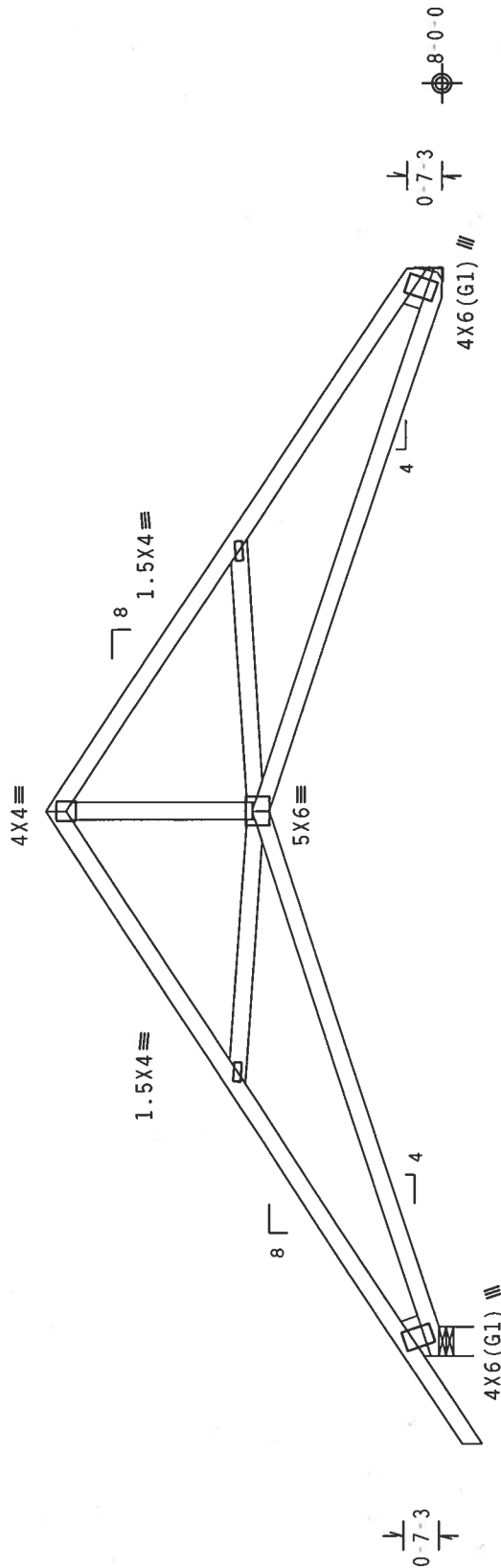
Alpine Engineered Products, Inc.
1950 Marley Drive

Haines City, FL 33844
FL Certificate of Authorization # 567

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

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.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:L: Stubbed Wedge 2x4 SP #3::Rt Stubbed Wedge 2x4 SP #3:
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



1-6-01

The diagram illustrates the combination of two beams. On the left, two separate beams are shown, each labeled "9-4-0". A vertical arrow points from the space between these two beams to a single beam on the right labeled "18-8-0 Over 2 Supports". This indicates that two 9-4-0 beams are equivalent to one 18-8-0 beam over two supports.

R=902 II=180 W=6"

R-790 U=180 H=Simpson LU26
w/ (4) 10d, 0.148"x1.5" nails in Truss
w/ (6) 16d, 0.162"x2.5" nails in Girder
Girder is (1)2X6 min. So.Pine

PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RETURN TO BESS 1, 503 (BUILDING COMPONENT SAFETY INFORMATION), AND NICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE, 583 MADISON, WISCONSIN, WI 53719), FOR MORE INFORMATION. THESE TRUSSES WERE DESIGNED AND MANUFACTURED TO MEET THE REQUIREMENTS OF THE 1995 INTERNATIONAL BUILDING CODES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

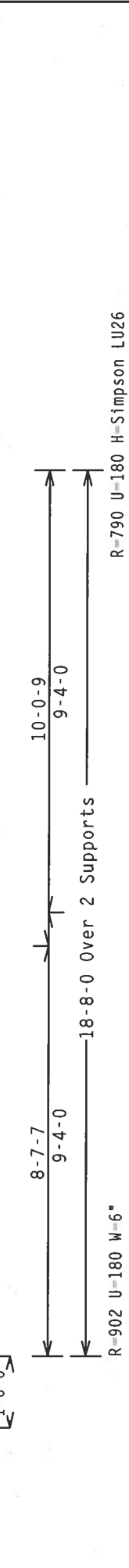
[illegible]

No. 59887
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 Jan 26 06

TC LL	20.0	PSF	REF	R487--	50820
TC DL	10.0	PSF	DATE	01/26/06	
BC DL	10.0	PSF	DRW	HCUSR487	06026031
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	13151	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1SU6487_Z03	

Alpine Engineered Products, Inc.
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FL Certificate of Authorization # 567

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

$$4 \times 4 \equiv 3 \times 4 \equiv 1.5 \times 4 \equiv$$


PLT TYP. Wave	Cq/RT=1.25(1.25)/0(0)		7.22.1	TY:1	FL/-4/-R/-	Scale =.3125"/Ft.
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 D'ONOFRIO DR., SUITE 200, WADSWORTH, MI 48093) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LN.				NO. 59687		20.0 PSF
				TC LL	20.0 PSF	REF R487 - 50821

ALPINE

Alpine Engineered Products Inc.

TRUSS IN CONFORMANCE WITH: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., FOR STEEL) AND TYPICAL
CONNECTOR PLATES ARE MADE OF 20/18/16GA (U-H/S/K) ASTM A563 GRADE 40/60 (M, K/H/S) GALV. STEEL.
APPLY TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.
ANY INSPECTION OF PLATES FOLLOWED BY IT SHALL BE PER ANEAS AS OF IP11-2002 SEC.3.

JAN 26 '06

CIVIL ENGINEER

BC LL 0.0 PSF HC-ENG JB/AF

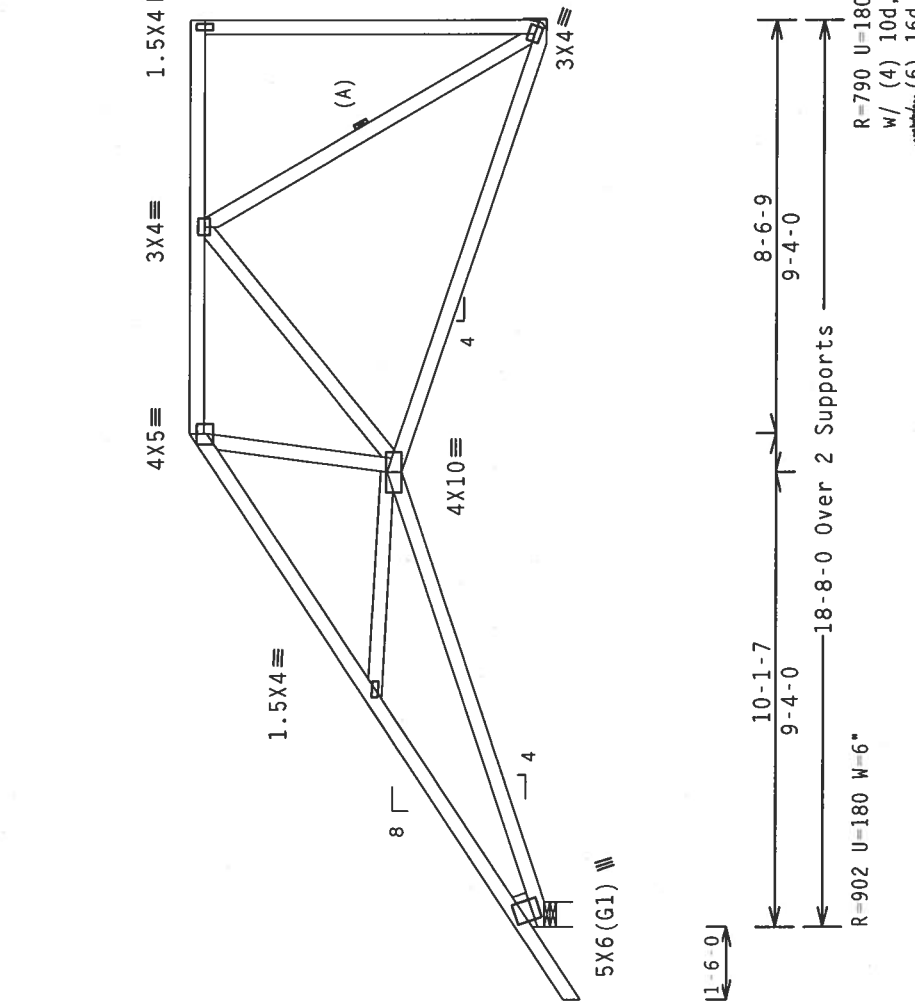
TOT.LD. 40.0 PSF SEQN- 13157

DUMP EAC 1' 25"

ENGINEER 1950 Marley Drive Gaines City, FL 32644 FL Certificate of Authorization # 567	DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE RUSS 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.	DUN. FAC. 1.23 SPACING 24.0" JREF- 1SU6487_Z03
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(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



7.22.10
ARTHUR RUPERSHED
SENSE

is (1)2X6 min. So.Pine
FL / 4 / - / R / -
Scale = .25

TC LL	20.0 PSF	REF R487
TC DL	10.0 PSF	DATE 01
BC DL	10.0 PSF	DRW HCURS487
BC LL	0.0 PSF	HC-ENG JB//
TOT.LD.	40.0 PSF	SEQN- 13
DUR.FAC.	1.25	JAN 26 '06
SPACING	24.0"	JREF- 1SU6

No. 59687
STATE OF CALIFORNIA
PROFESSIONAL ENGINEER

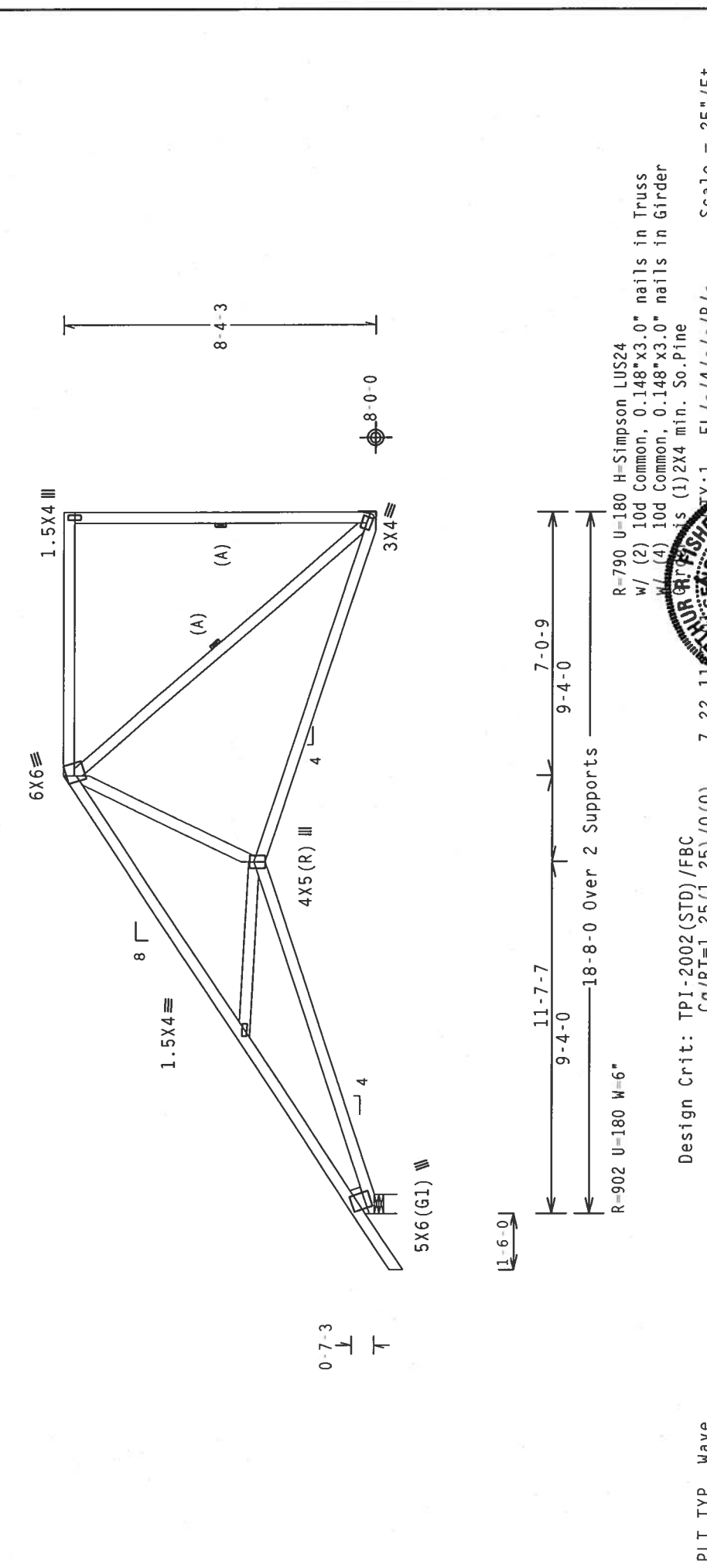
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN:
DESIGN IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES IN CONFORMANCE WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AFSPA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 2017/160A (M-H/S/K) ASTM A553 GRADE 40/60 (M-K/H-S) GALV. STEEL. APPLY
UNLESS OTHERWISE NOTED. THIS DESIGN POSITION PER DIMENSIONS 160A Z-
INSPECTION OF PLATES FOLLOWED BY SMALL SCALE TESTING SHALL BE PERMANENT RECORD. SEE DRAWING
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.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Stubbed Wedge 2x4 SP #3:

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

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

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. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

R-790 U=180 H-Simpson LUS24
w/ (2) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
w/ (1) 2X4 min. So.Pine

Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R487--	50823
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026034
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON-	13168	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

ALPINE

ALPINE Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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, 1000 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA) 6300 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 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 (M-H/S/K) ASTM A653 GRADE 40/60 (M. K/M-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. CONNECTION PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN STANDARD OF TPI 2002, SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS SYSTEM. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 59887
Jan 26 '06

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

SPECIAL LOADS

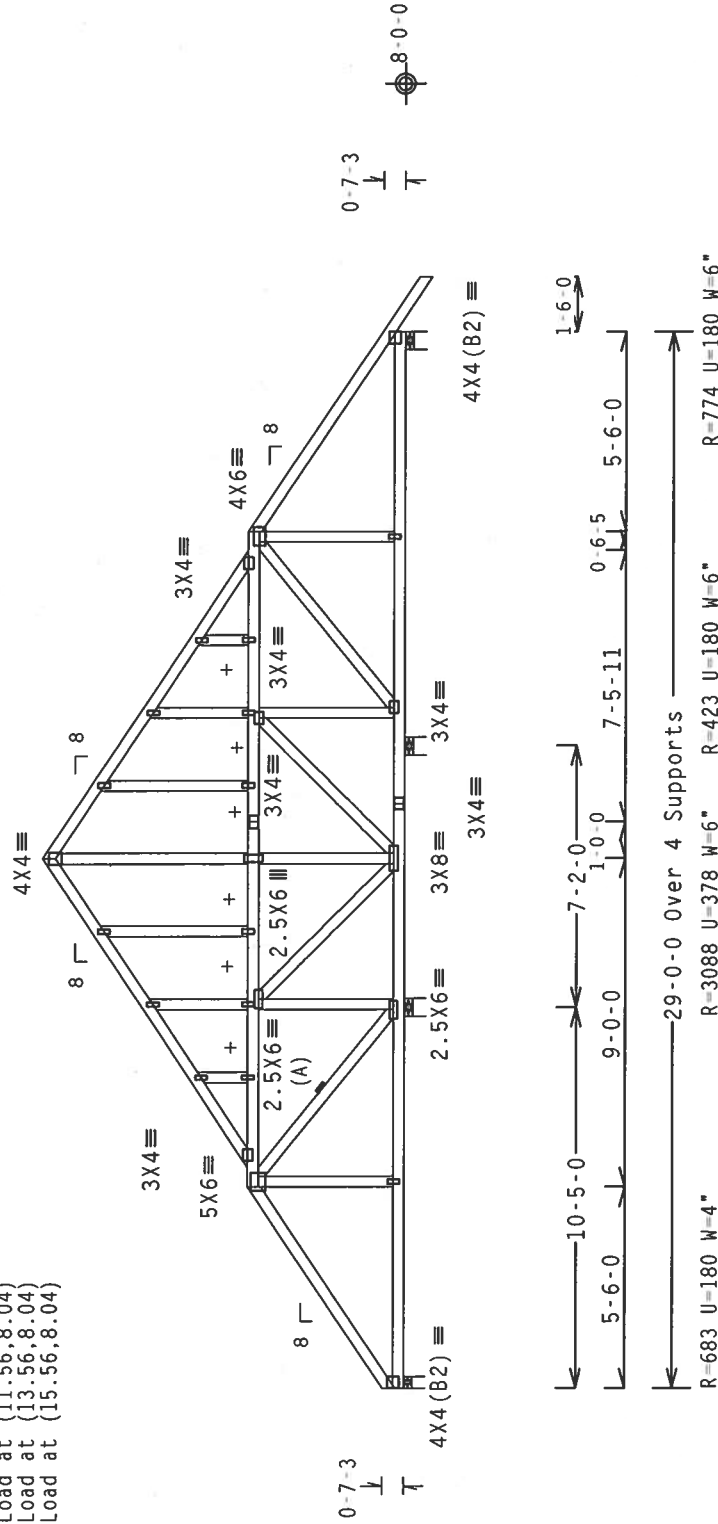
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 5.50
TC - From 86 PLF at 5.50 to 86 PLF at 14.50
TC - From 86 PLF at 14.50 to 64 PLF at 30.50
BC - From 20 PLF at 0.00 to 5 PLF at 30.50
PLT- 494 LB Conc. Load at (5.50,12.23)
PLT- 155 LB Conc. Load at (7.56,13.24)
PLT- 155 LB Conc. Load at (9.56,14.58)
PLT- 155 LB Conc. Load at (11.56,15.91)
PLT- 155 LB Conc. Load at (13.56,16.99)
PLT- 155 LB Conc. Load at (15.56,16.90)
PLB- 462 LB Conc. Load at (5.50,8.04)
PLB- 60 LB Conc. Load at (7.56,8.04)
PLB- 60 LB Conc. Load at (9.56,8.04)
PLB- 60 LB Conc. Load at (11.56,8.04)
PLB- 60 LB Conc. Load at (13.56,8.04)
PLB- 60 LB Conc. Load at (15.56,8.04)

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

See DWGS A11015EE0405 & GBLLETTIN0405 for more requirements.

- (A) Continuous lateral bracing equally spaced on member.
- Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.
- + MEMBER TO BE Laterally BRACED FOR HORIZONTAL WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

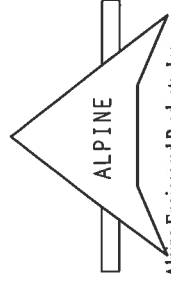
7.22.1

FL/-4/-/R/-

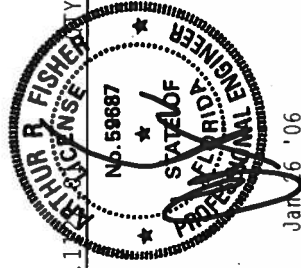
Scale = .1875"/Ft.

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/156A (M-H/S/X) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE BY A PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



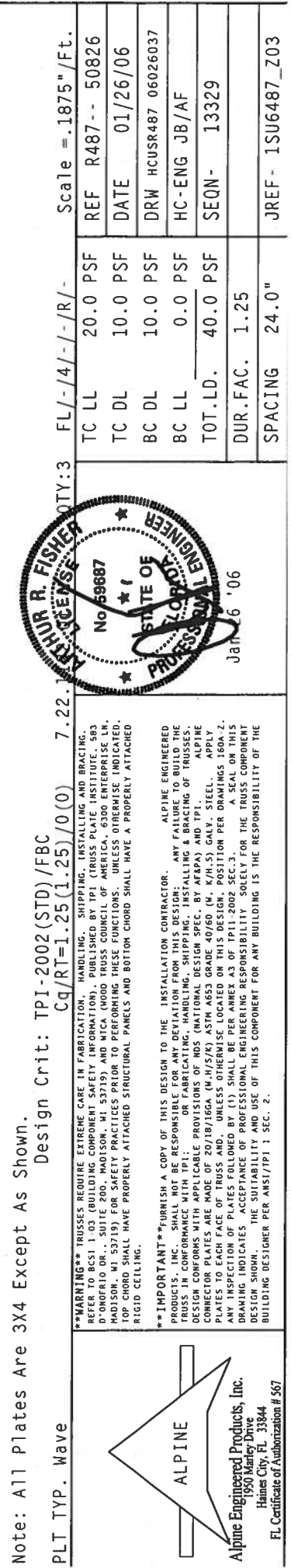
Alpine Engineered Products, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487--	50824
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026035
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	13394	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

FL Certificate of Authorization # 567	BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.	SPACING 24.0"	JREF- 1SU6487_Z03
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SEE DWGS TC FILLER1103 AND BC FILLER1103 FOR FILLER DETAILS.
 Laterally brace bottom chord above filler at 24" o.c. and top
 chord under filler at 24" o.c including a lateral brace at
 chord ends.



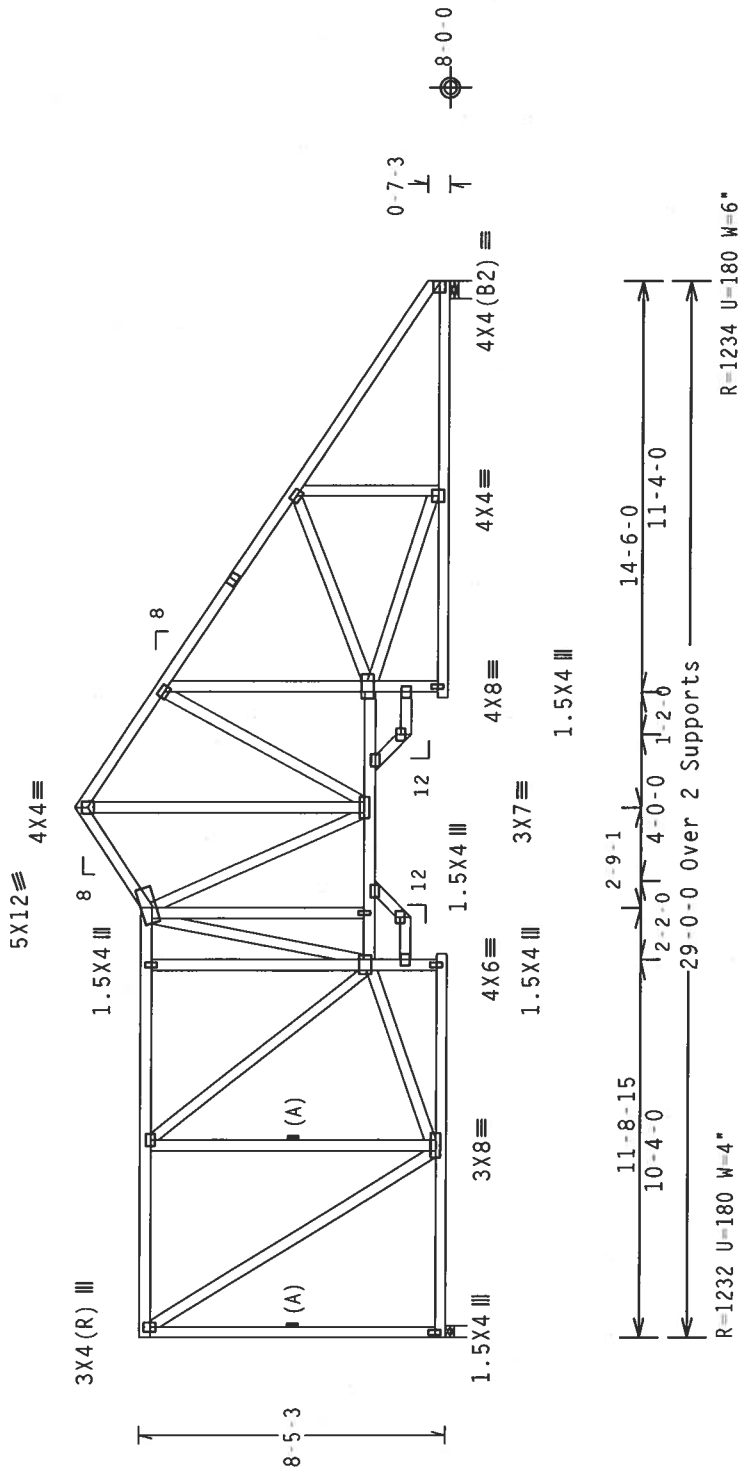
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TC FILLER1103 AND BC FILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

(A) Continuous lateral bracing equally spaced on member.



Note: All Plates Are 3x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.25(1.25)/0(0) 7.22.13

Scale = .1875" / Ft.

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

Professional Engineer
R. FISHER
No. 59687
STATE OF ALABAMA
Jan 26 / 06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****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 APA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M-H/S/A) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY INSPECTION OF THE TRUSS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPANY'S 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
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

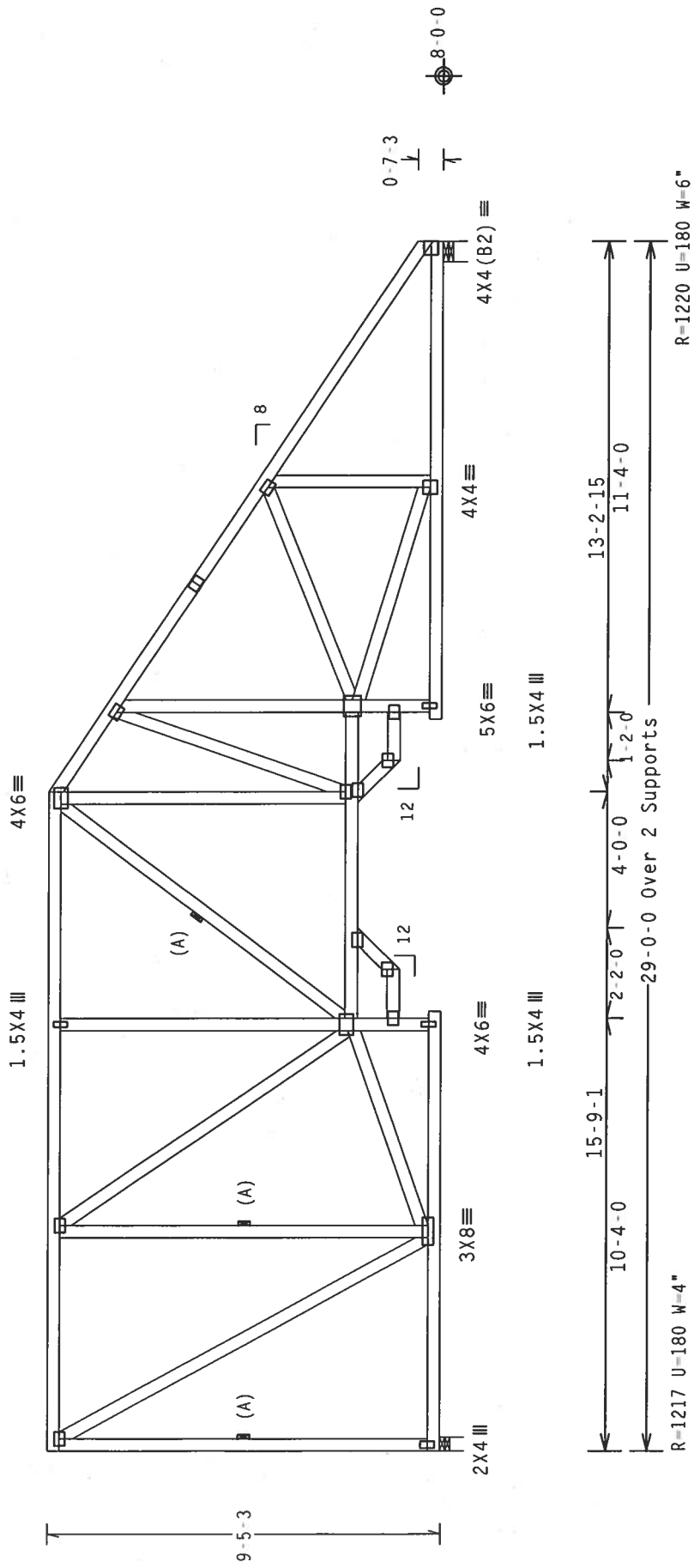
Left end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TC FILLER1103 AND BC FILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" O.C. INCLUDING A LATERAL BRACE AT CHORD ENDS.

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

(A) Continuous lateral bracing equally spaced on member.



Note: All Plates Are 3x4 Except As Shown.

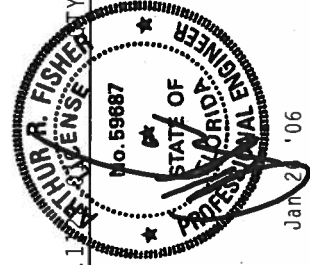
Design Crit: TPI-2002(STD)/FBC

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

7.22.1

FL/-4/-/-R/-

Scale = .25"/Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. RECEPTIVE TRUSSES MUST BE INSTALLED IN ACCORDANCE WITH THE TPI TRUSS PLATE INSTRUCTIONS. 593 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719 AND 10000 W. WISCONSIN AVE., SUITE 100, MADISON, WI 53719. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M-M/S/K) ASTM A653 GRADE 40/60 (N. K/M-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. APPLICATION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0 PSF	REF R487--	50828
TC DL	10.0 PSF	DATE	01/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06026039
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	13353
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SU6487_Z03

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Top	chord	2x4	SP #2	Dense
Bot	chord	2x6	SP #2	:B2 2x4 SP #2 Dense:
	Weds	2x4	SP #3	:W1 2x6 SP #2:
	:W2	2x4	SP #2	Dense:
	:Rt	Wedge	2x4	SP #3:

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B2 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W2 2x4 SP #2 Dense:
:Rt Wedge 2x4 SP #3:

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

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK1103 for additional information.

Left end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

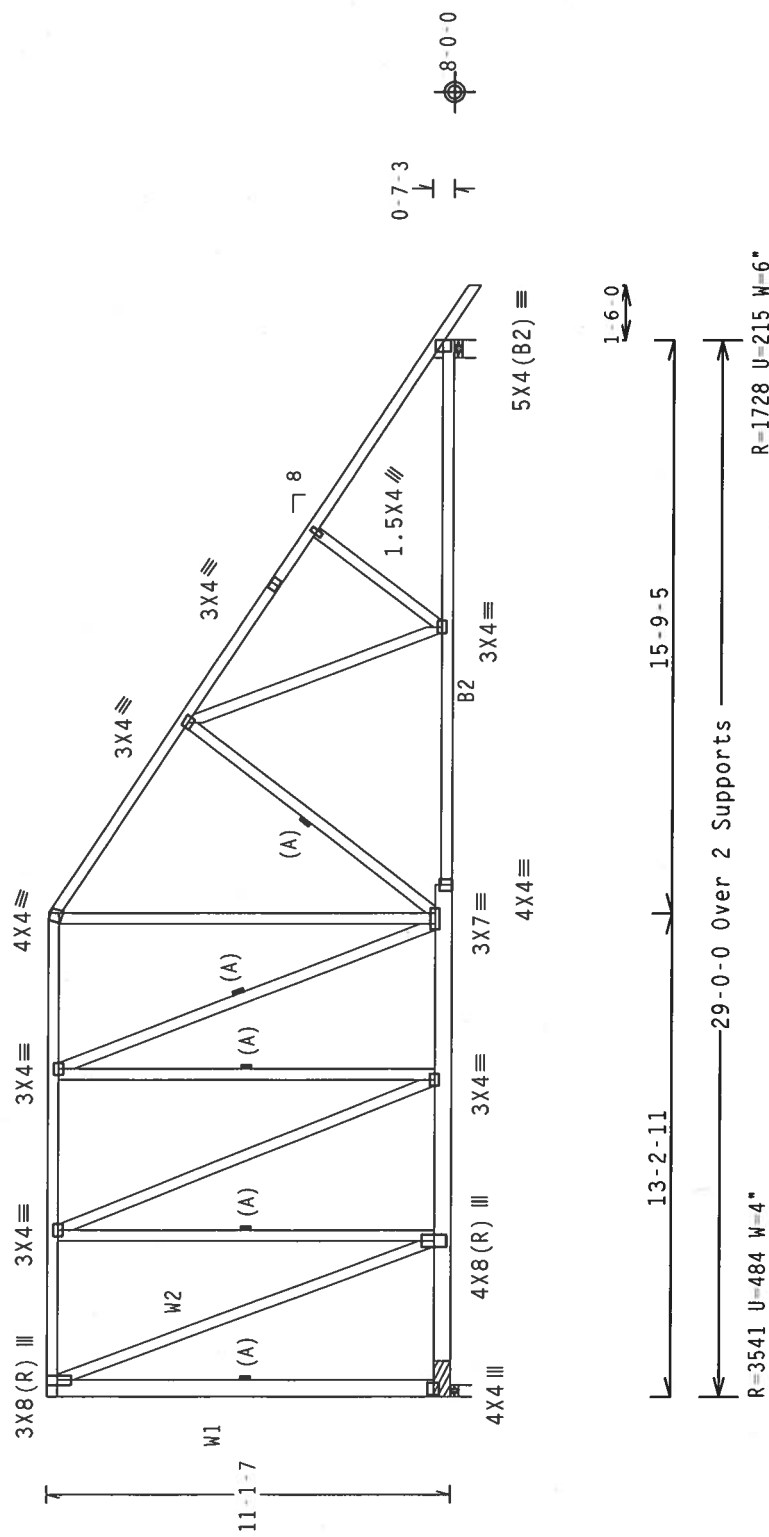
SPECIAL LOADS

		(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC	From 64 PLF at 0.00 to 64 PLF at 30.50	
BC	From 20 PLF at 0.00 to 5 PLF at 30.50	
BC	910 LB Conc. Load at 2.27, 4.27, 6.27	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Max JT VERT DEFL: LL: 0.09" DL: 0.14" recommended camber 1/4"

(A) Continuous lateral bracing equally spaced on member.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

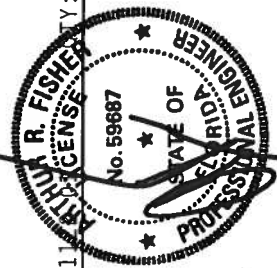
PI-Z00Z(SID)/FBC
CQ/RT=1 25(1 25)/0(0) 7 22 11

E11-1A1-1-1D1-

scale = 1975"/E+

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1-800 (BUILDING COMFORT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PACE INSTITUTE, 583 RICHMOND AVE., BIRMINGHAM, AL 35217) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SPECIFIC INFORMATION REGARDING THE PROPER PROCEDURES FOR PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED BRIGID CEILING.

*****IMPORTANT***** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALINE ENGINEERS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING THE TRUSS CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND ALPINE TRUSS COMPANY'S TPI1, TPI2, TPI3, TPI4, TPI5, TPI6, TPI7, TPI8, TPI9, TPI10, TPI11, TPI12, TPI13, TPI14, TPI15, TPI16, TPI17, TPI18, TPI19, TPI20, TPI21, TPI22, TPI23, TPI24, TPI25, TPI26, TPI27, TPI28, TPI29, TPI30, TPI31, TPI32, TPI33, TPI34, TPI35, TPI36, TPI37, TPI38, TPI39, TPI40, TPI41, TPI42, TPI43, TPI44, TPI45, TPI46, TPI47, TPI48, TPI49, TPI50, TPI51, TPI52, TPI53, TPI54, TPI55, TPI56, TPI57, TPI58, TPI59, TPI60, TPI61, TPI62, TPI63, TPI64, TPI65, TPI66, TPI67, TPI68, TPI69, TPI70, TPI71, TPI72, TPI73, TPI74, TPI75, TPI76, TPI77, TPI78, TPI79, TPI80, TPI81, TPI82, TPI83, TPI84, TPI85, TPI86, TPI87, TPI88, TPI89, TPI90, TPI91, TPI92, TPI93, TPI94, TPI95, TPI96, TPI97, TPI98, TPI99, TPI100, TPI101, TPI102, TPI103, TPI104, TPI105, TPI106, TPI107, TPI108, TPI109, TPI110, TPI111, TPI112, TPI113, TPI114, TPI115, TPI116, TPI117, TPI118, TPI119, TPI120, TPI121, TPI122, TPI123, TPI124, TPI125, TPI126, TPI127, TPI128, TPI129, TPI130, TPI131, TPI132, TPI133, TPI134, 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FL Certificate of Authorization # S67

JREF- 1SU6487 Z03

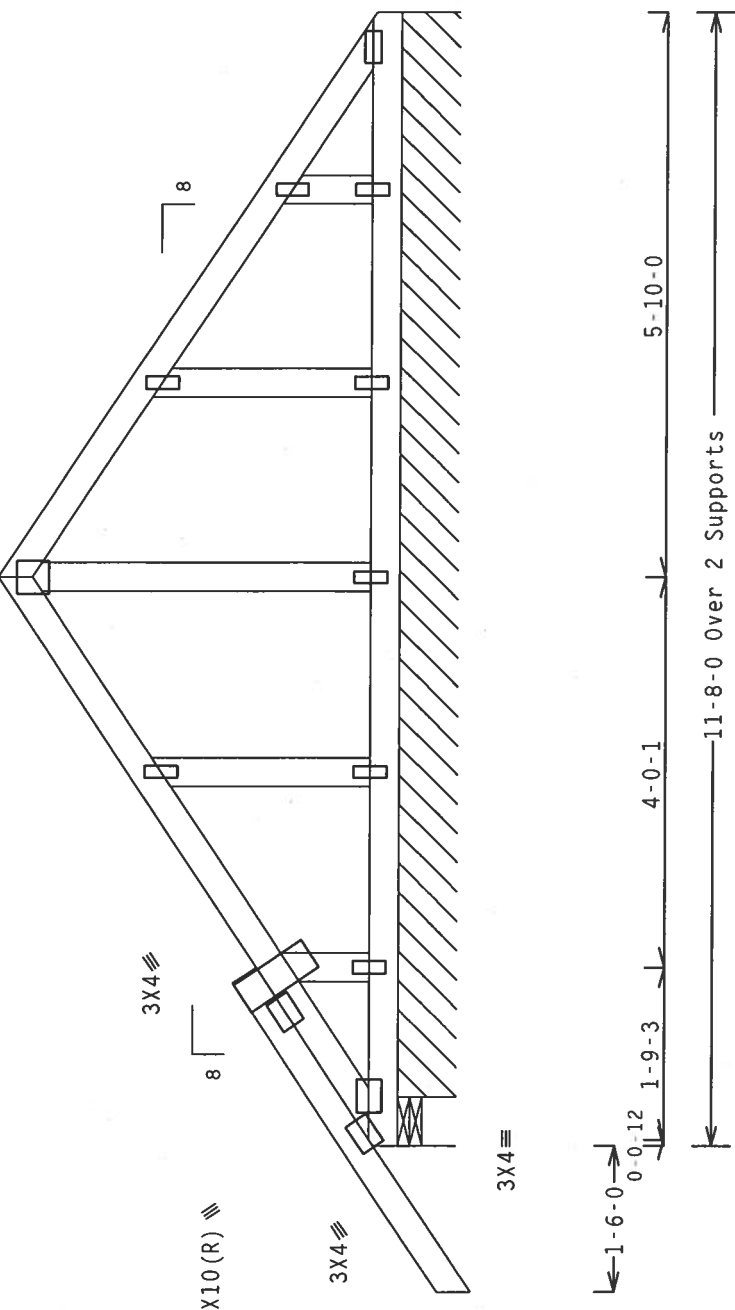
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 86 PLF at -1.50 to 86 PLF at 11.60
BC - From 5 PLF at -1.50 to 20 PLF at 11.67

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

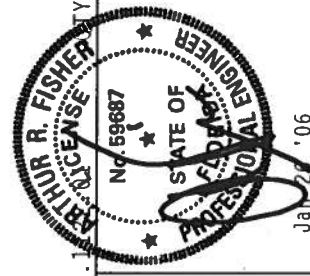
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave

Scale = .5" / Ft.	
REF	R487-- 50831
DATE	01/26/06
DRW	HCUSR487 06026050
HC-ENG	JB/AF
SEQN-	13251 REV
DUR.FAC.	1.25
SPACING	24.0"
JREF-	1SU6487_Z03

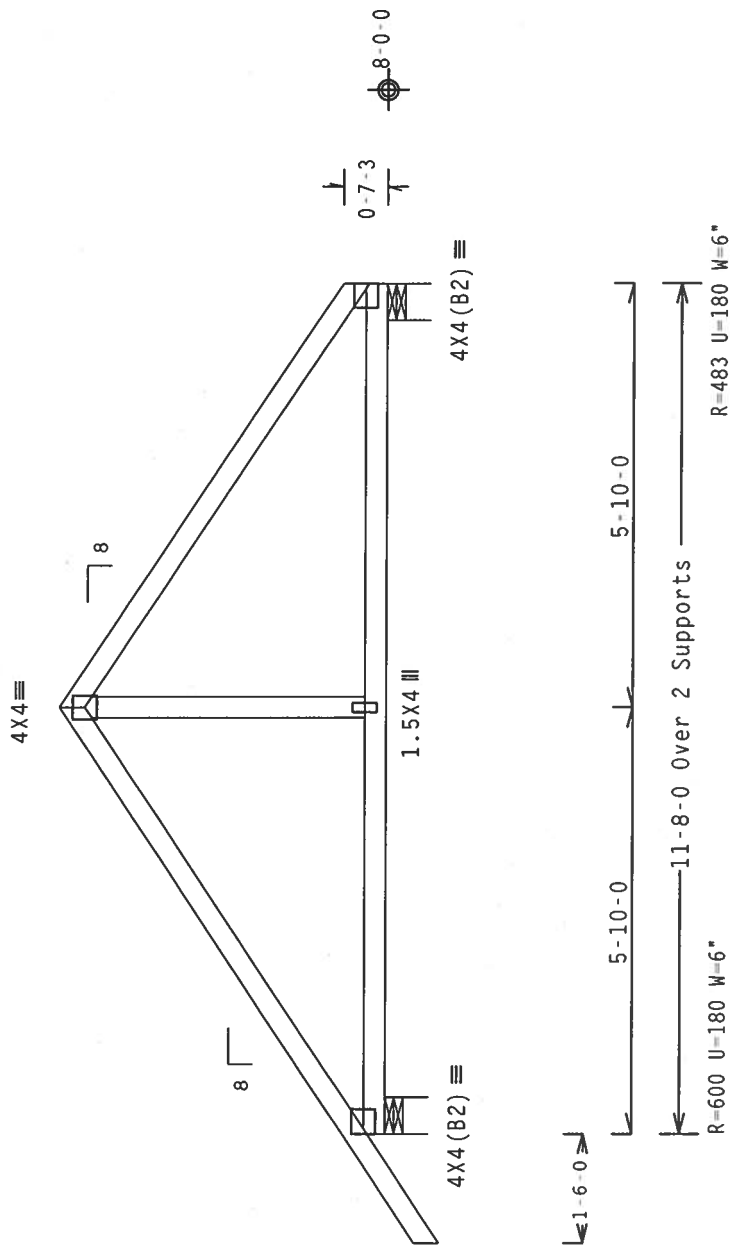


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Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.25(1.25)/0(0) 7.22.12

Scale = .375"/Ft.

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TC LL	20.0 PSF	REF	R487--	50832
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026017
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	13255	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

Professional Engineer
No. 59887
State of Florida
Jan 16/06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC511.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 993 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 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 2018/16GA (M.H/S/K) 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. PLATES SHALL BE WELDED AS OF P11-2002, SEC.3.1. A SEAL ON THIS PLATE SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT MANUFACTURER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W7 2x6 SP #2:

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -1.50 to 62 PLF at 22.33
BC - From 4 PLF at -1.50 to 20 PLF at 22.33
PLB- 790 LB Conc. Load at (8.06,8.04)
PLB- 790 LB Conc. Load at (10.06,8.04)
PLB- 790 LB Conc. Load at (12.06,8.04)
PLB- 790 LB Conc. Load at (14.06,8.04)
PLB- 790 LB Conc. Load at (16.06,8.04)
PLB- 790 LB Conc. Load at (18.06,8.04)
PLB- 790 LB Conc. Load at (20.06,8.04)

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

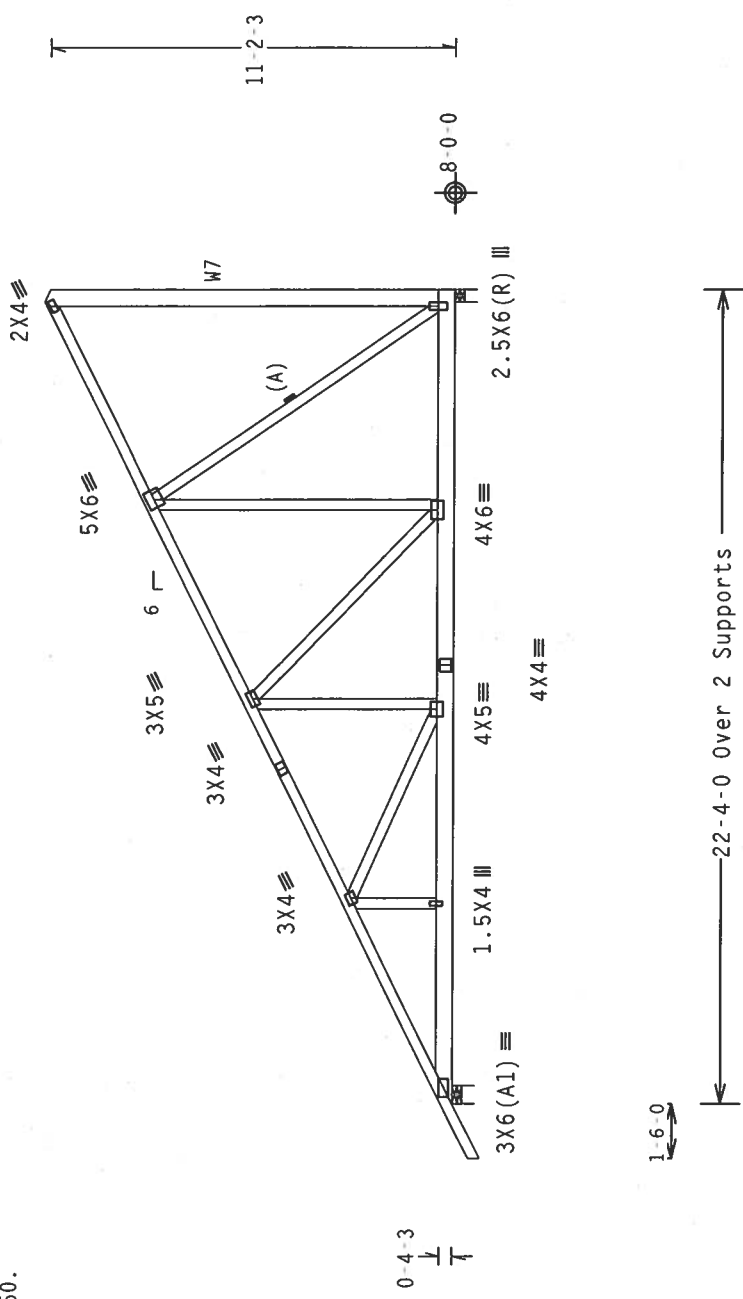
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common (0.148"x3", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 7.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.



PLT TYP. Wave

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

Scale = .1875" / Ft.

TC LL	20.0 PSF	REF R487--	50833
TC DL	10.0 PSF	DATE	01/26/06
BC DL	10.0 PSF	DRW	HCUSR487 06026042
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	13411
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SU6487_Z03

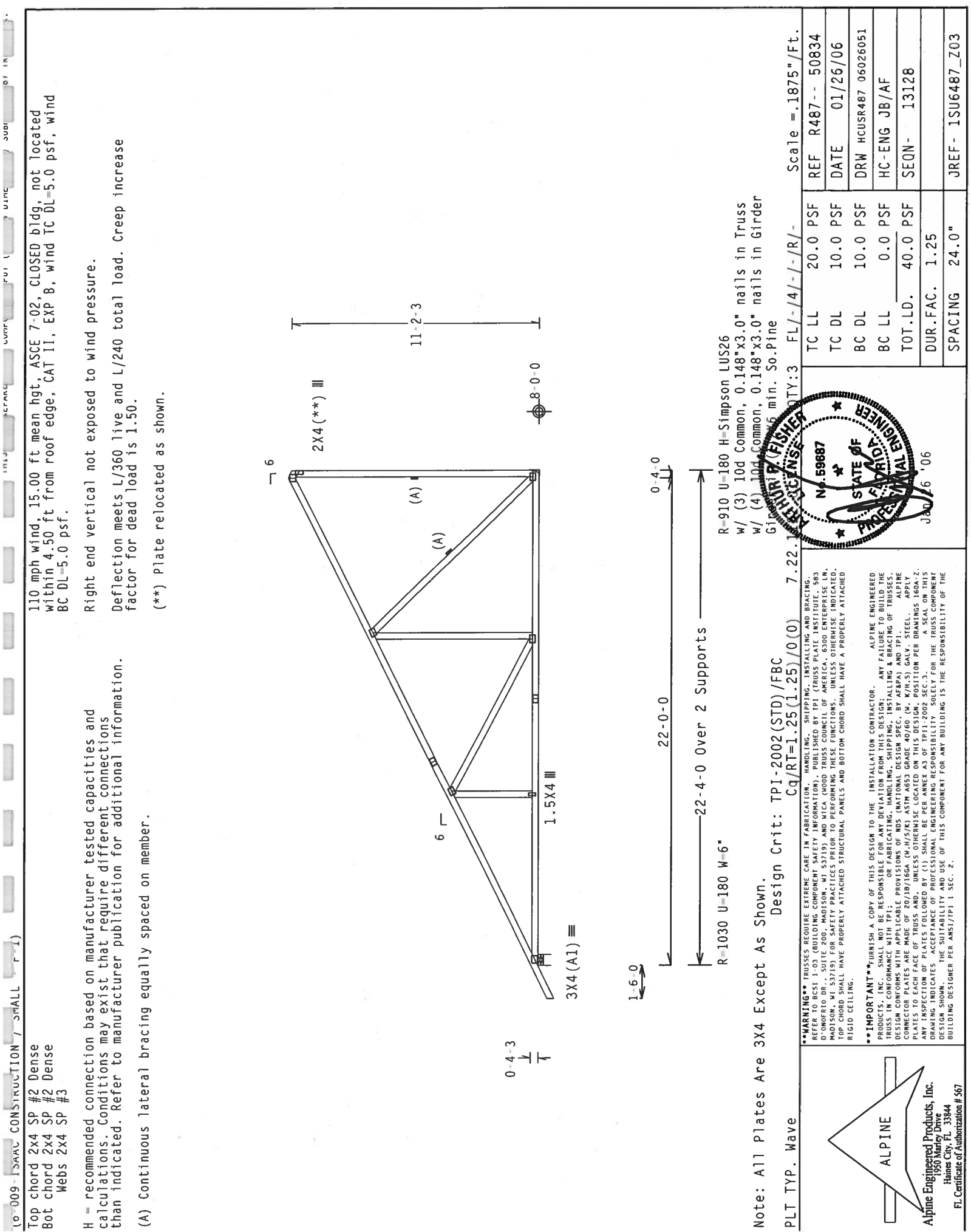
ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

THUR P. FISHER
No. 59887
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jan 26 '06

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 183 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 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 2018/16GA (W.47/5/4) ASH A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI. ANY FAILURE TO FOLLOW THESE INSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

Right end vertical not exposed to wind pressure.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.
(**) Plate relocated as shown.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.
(A) Continuous lateral bracing equally spaced on member.

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

10-009-13AAC CONSTRUCTION / SHALL F-1)

PLT TYP. Wave

Note: All Plates Are 3X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.25(1.25)/0(0) 7.22.1

R-910 U=180 H=Simpson LUS26
w/ (3) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder 6 min. So.Pine

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R487--	50834
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026051
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON-	13128	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

Note: All Plates Are 3x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

PLT TYP. Wave

7.22.1

HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BEST L-003 (BUILDING COMPONENT SAFETY INFORMATION), TPI-2002(STD) AND AISC 308B (STEEL JOINTS).
MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR.,
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
RIGID CEILING.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. ANY FAILURE TO BUILD THE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO ENGINEER THE TRUSSES OR TO FOLLOW THE DESIGN SPECIFICATIONS OF THE MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE USER. ANY FAILURE TO FOLLOW THE DESIGN SPECIFICATIONS OF THE MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE USER.

****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 ENGINEER THE TRUSSES OR TO FOLLOW THE DESIGN SPECIFICATIONS OF THE MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE USER. ANY FAILURE TO FOLLOW THE DESIGN SPECIFICATIONS OF THE MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE USER.

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

Scale = .1875"/Ft.

REF R487 -- 50835

DATE 01/26/06

DRW HCUR487 06026052

HC-ENG JB/AF

SEIN- 13138

JREF- 1SU6487_Z03

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

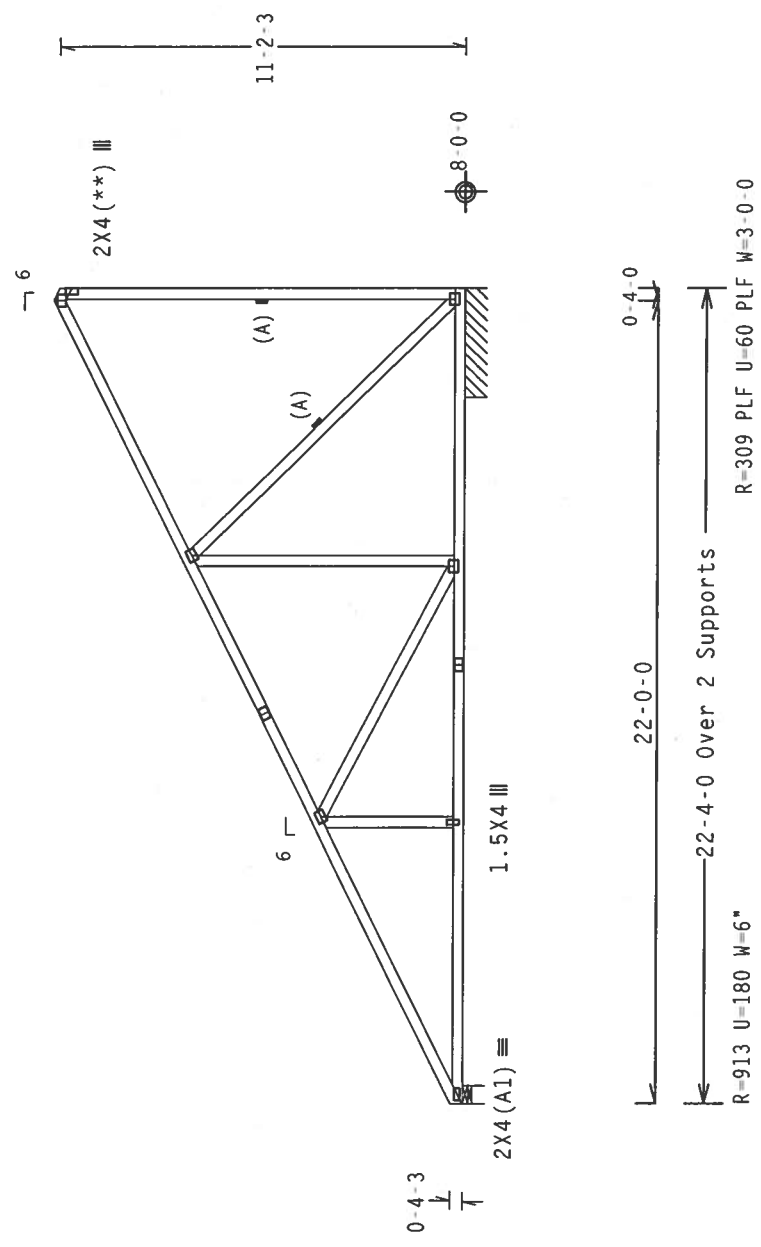
Right end vertical not exposed to wind pressure.

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. Creep increase factor for dead load is 1.50.

(**) Plate relocated as shown.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

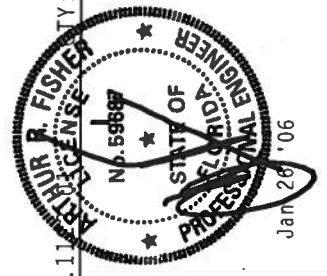
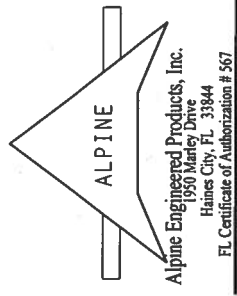
7.22.11

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

Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTALLATION) 800 O'HONORIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR 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 (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS ANNEX SHOWN INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	50836
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026041
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON-	13241	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

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

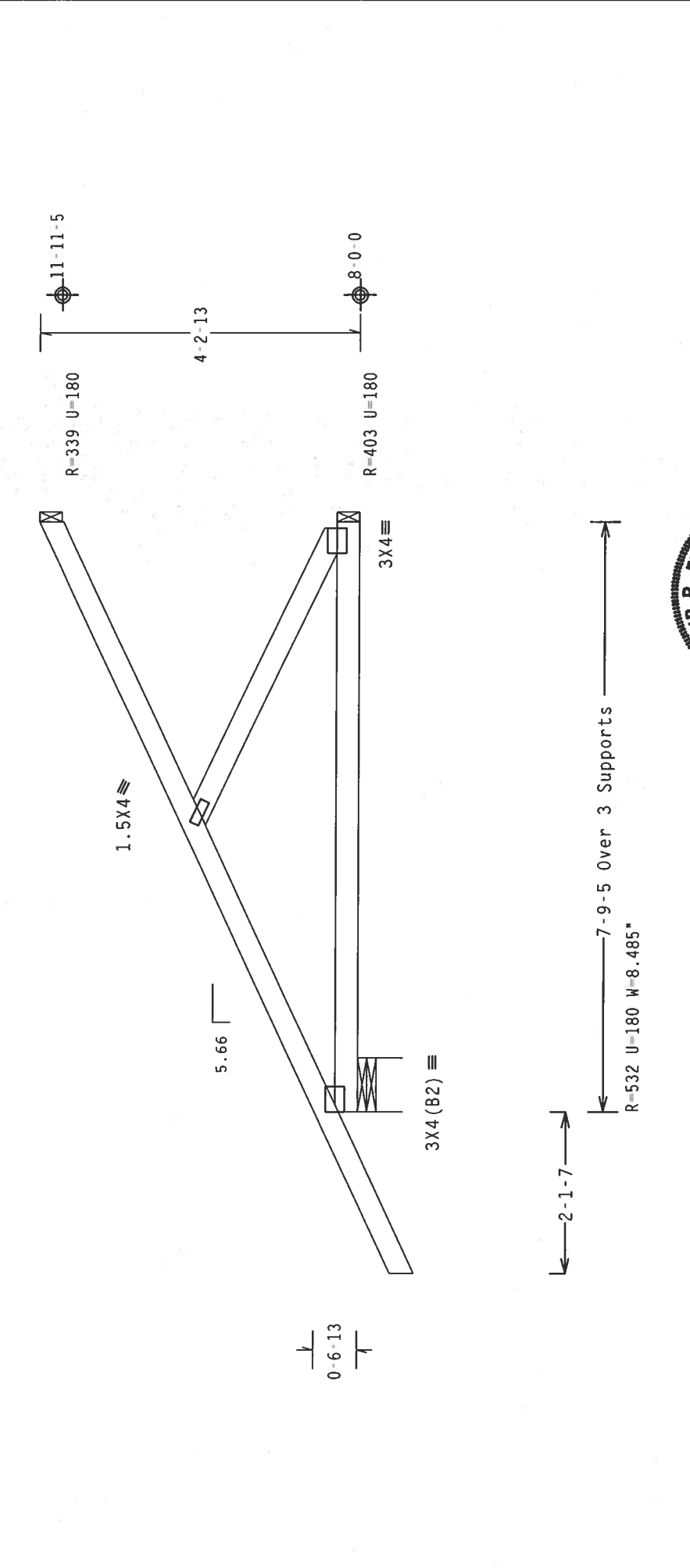
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Hipjack supports 5-6-0 setback jacks with no webs.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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



PLT TYP. Wave

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

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487--	50838
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026044
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	13276	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

ALPINE

Alpine Engineered Products, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

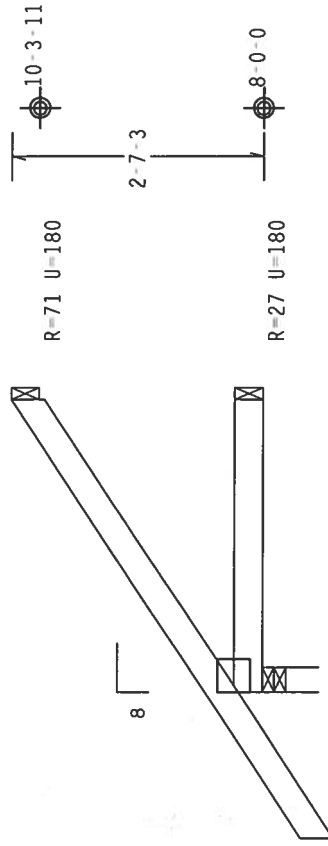
SEAL

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 59687
JAN 26 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST L-03 (BUILDING COMPONENT SAFETY IMPROVEMENT) PLATE SPECIFICATIONS, 800-360-6360 FOR MORE INFORMATION. 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 A BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&P) 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 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 AND THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

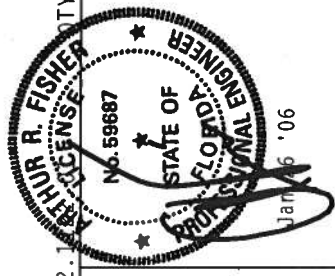
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
Provide (2) 16d 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'-0-0 Over 3 Supports
R-258 U=180 W=3"

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

Scale = 5"/Ft.

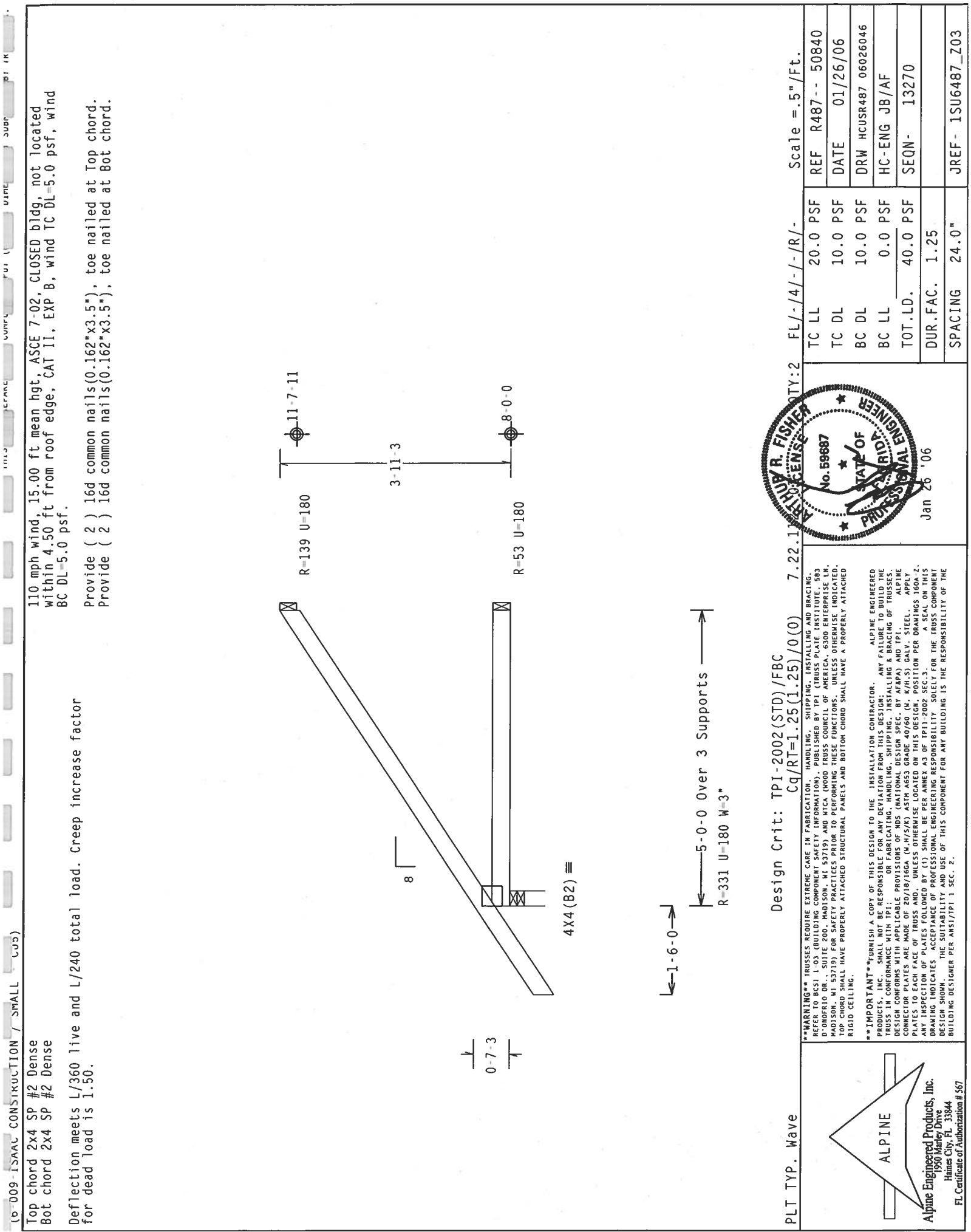


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 1000 MADISON DR., SUITE 200, MADISON, WI 53719, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE 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 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE DESIGNER'S RESPONSIBILITY. THE SEALING 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.

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

REF	R487 --	50839
DATE	01/26/06	
DRW	HCUSR487	06026045
HC-ENG	JB/AF	
SEQN-	13264	
JREF	1SU6487_Z03	



Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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

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

PLT TYP. Wave

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487 -- 50840
TC DL	10.0 PSF <th>DATE</th> <td>01/26/06</td>	DATE	01/26/06
BC DL	10.0 PSF <th>DRW</th> <td>HCUSR487 06026046</td>	DRW	HCUSR487 06026046
BC LL	0.0 PSF <th>HC-ENG</th> <td>JB/AF</td>	HC-ENG	JB/AF
TOT.LD.	40.0 PSF <th>SEQN</th> <td>13270</td>	SEQN	13270
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SU6487 Z03

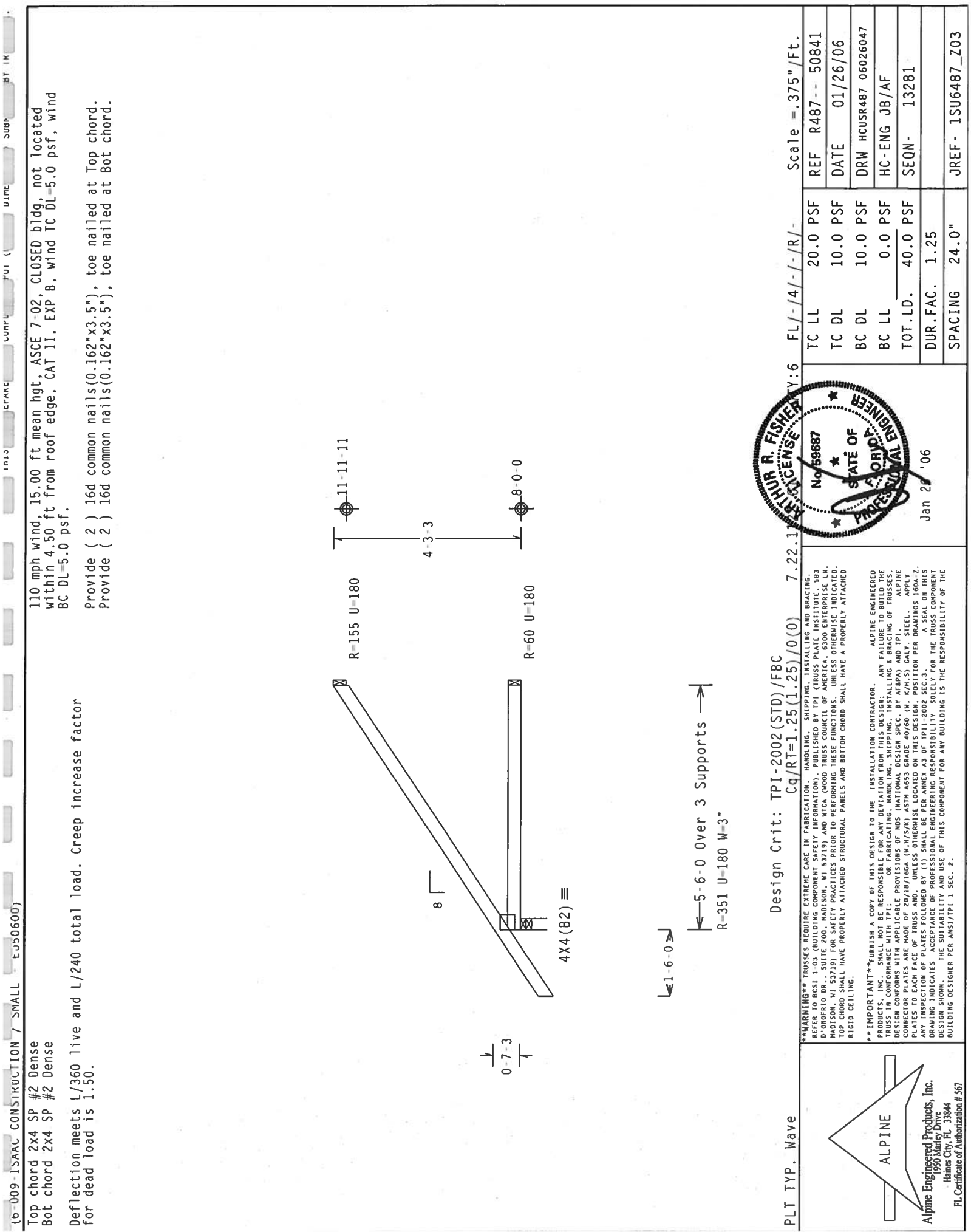
ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Jan 26 '06

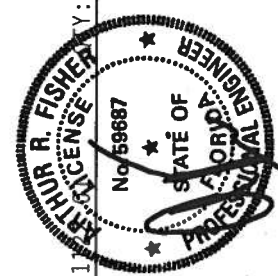
Professional Engineer
No. 59687
STATE OF FLORIDA
R. FISHER
No. 59687

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE MANUFACTURER'S INSTRUCTIONS FOR ALL TRUSS COMPONENTS. (SEE PLATE 563 FOR TRUSS CONNECTIONS AND DETAILING). 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 2018/16GA (M-N/SX) ASTM A653 GRADE 40/60 (M. 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 DESIGN SHOWN. THE SUELLY AND COMPANY, INC. IS THE DESIGNER OF RECORD FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.25(1.25)/0(0) 7.22.1	Scale = .375"/Ft.
REF R487 -- 50841	TC LL 20.0 PSF	REF R487 -- 50841
DATE 01/26/06	TC DL 10.0 PSF	DATE 01/26/06
DRW HCUSR487 06026047	BC DL 10.0 PSF	DRW HCUSR487 06026047
HC-ENG JB/AF	BC LL 0.0 PSF	HC-ENG JB/AF
SEQN- 13281	TOT.LD. 40.0 PSF	SEQN- 13281
	DUR.FAC. 1.25	
	SPACING 24.0"	JREF- 1SU6487_Z03



****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 PANEL INSTITUTE), 13 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 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 2018/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (N. K/M-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DESIGNER SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT. A SEAL OR THIS DESIGN INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEER'S RESPONSIBILITY FOR THE TRUSS COMPONENT. BUILDING DESIGNER PER ANS1/TPI 1 SEC. 2.

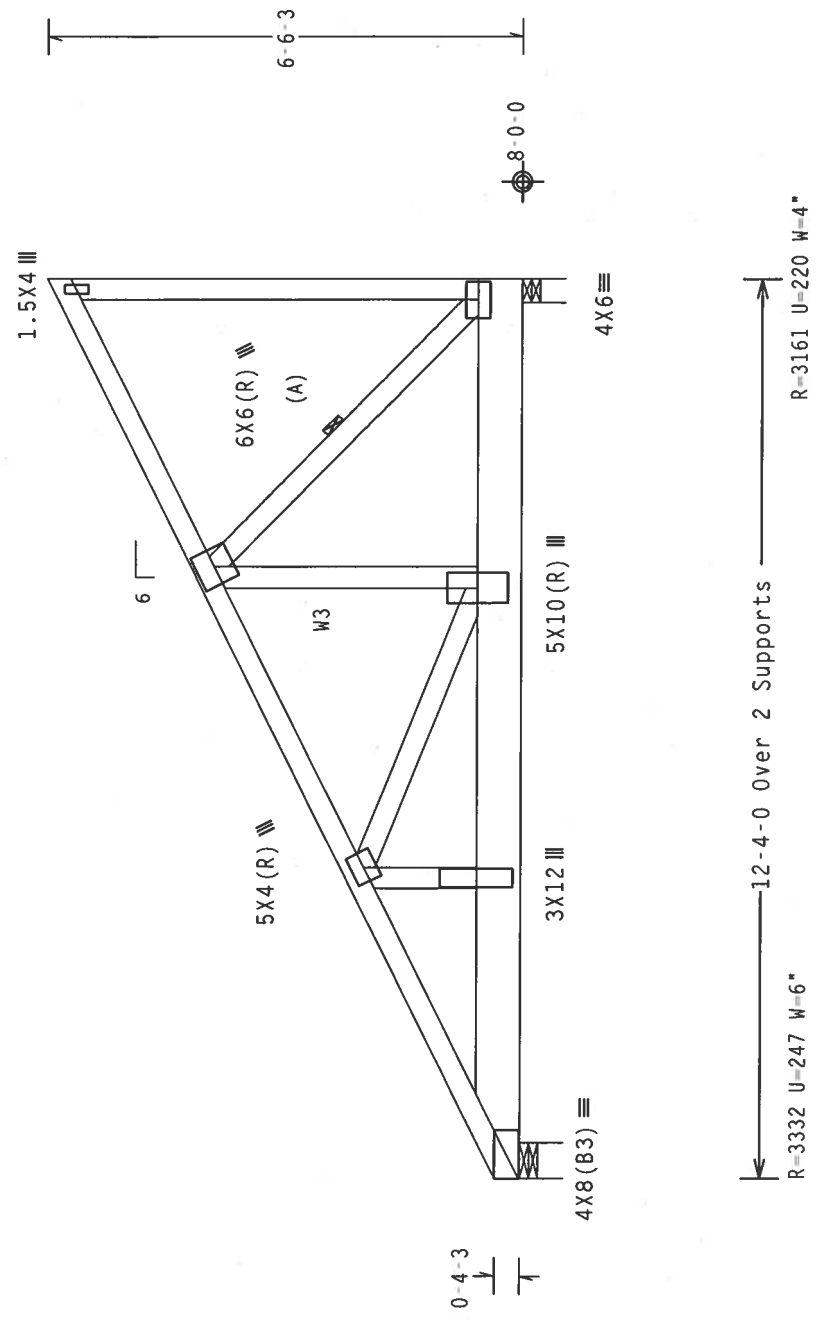


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP 55
Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.
Right end vertical not exposed to wind pressure.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 20 PLF at 12.33
BC - From 20 PLF at 0.00 to 11.06
BC - 913 LB Conc. Load at 1.06, 3.06, 5.06, 7.06, 9.06



PLT TYP. Wave

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

7.22.11

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487--	50842
TC DL	10.0 PSF	DATE	01/26/06	
BC DL	10.0 PSF	DRW	HCUSR487	06026048
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	13372	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SU6487_Z03	

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 893 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 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 2018/16GA (M-H/S/K) 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.2. CONNECTOR PLATES FOLLOWED BY (C) SHALL BE PER ANCHOR AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

STATE OF FLORIDA
Professional Engineer
No. 13687
R. FISHER
JAN 24 06

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

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

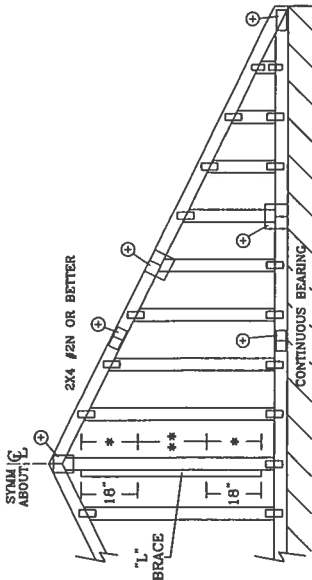
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

**** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.**

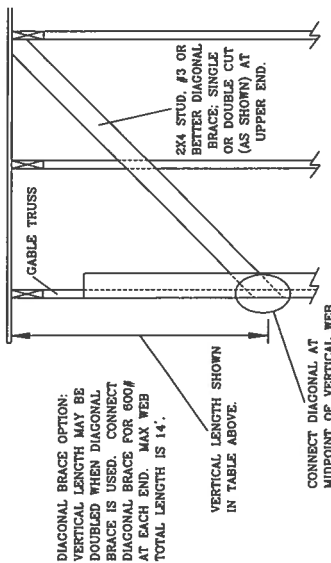
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 600
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL WEB.



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANCO BEACH, FLORIDA

REF	ASCET-02-CABI1015
DATE	04/15/05
DRWG	A11015EB0405
-ENG	

MAX. TOT. LD.	60 PSF
MAX. SPACING	24"0"

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 3893 DUNDUFF DR., SUITE 200, MADISON, VI. 53719 AND VTC4 (WOOD TRUSS COUPLER PLATE INSTALLATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 3893 DUNDUFF DR., SUITE 200, MADISON, VI. 53719 FOR ADDITIONAL INFORMATION. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING THE TRUSS. THESE CONDITIONS OF THIS NATIONAL DESIGN SPECIFICATION SHALL BE A PART OF THE CONTRACT. CONTRACTOR PLATES SHALL BE PLACED ON THE TRUSS BY ATAPD AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF 40/60 (A/K/H/S) GALV. STEEL. PROVIDE 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 CONDUCTED BY THE CONTRACTOR AND (2) BY AN INDEPENDENT THIRD PARTY. THE CONTRACTOR'S PROFESSIONAL ENGINEERING RESPONSIBILITY SHALL BE FOR THE TRUSS DESIGN AND 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**



Jan 26

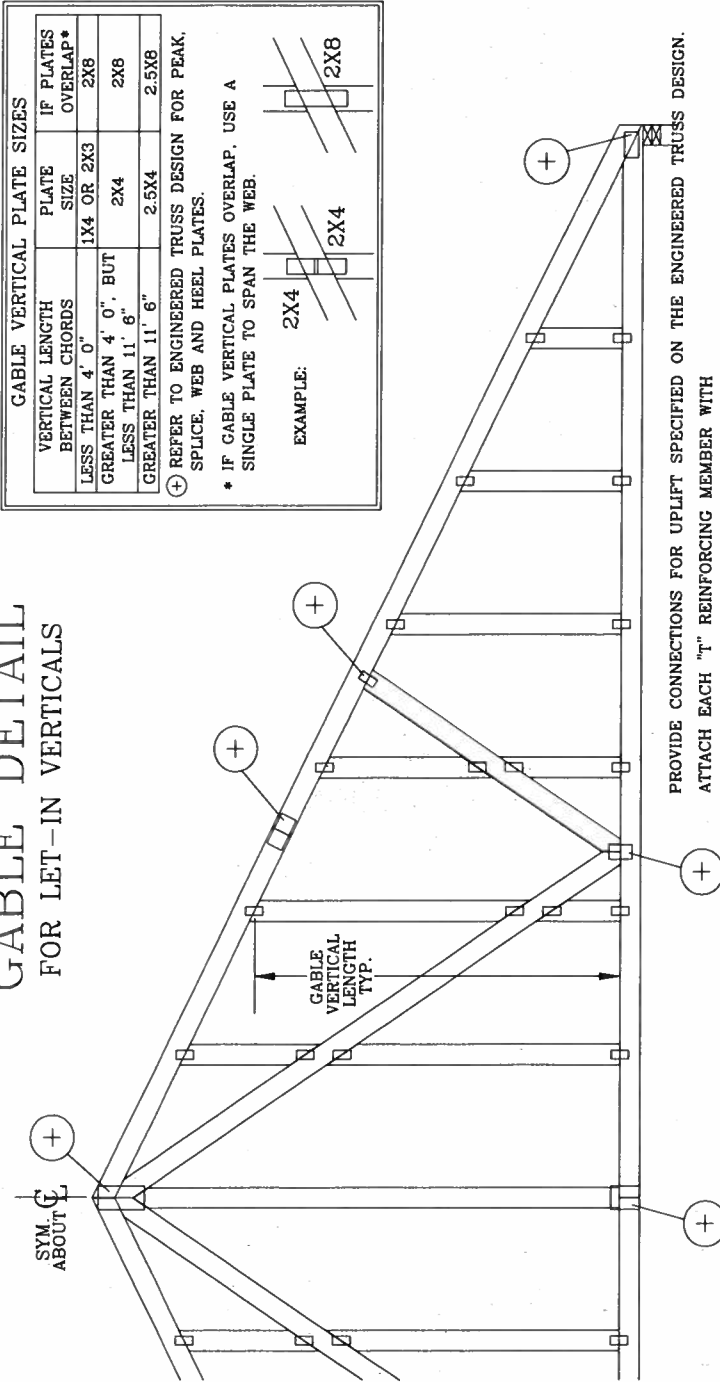
GABLE DETAIL FOR LET-IN VERTICALS

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.

EXAMPLE: 2X4 2X8



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS

(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

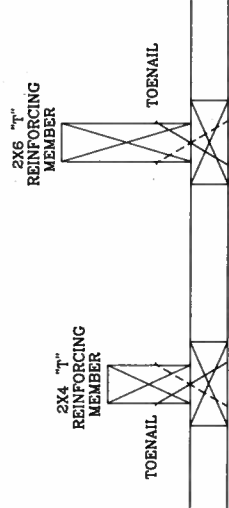
8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(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
- A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
 - A10030EN1103, A10030EN1103, A09030EN1103, A08030EN1103
- ASCE 7-98 GABLE DETAIL DRAWINGS
- A13015EC1103, A12015EC1103, A11015EC1103, A08515EC1103
 - A13030EC1103, A12030EC1103, A11030EC1103, A08530EC1103
- ASCE 7-02 GABLE DETAIL DRAWINGS
- A13015EE0405, A12015EE0405, A11015EE0405, A08515EE0405
 - A13030EE0405, A12030EE0405, A11030EE0405, A08530EE0405

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



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

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

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

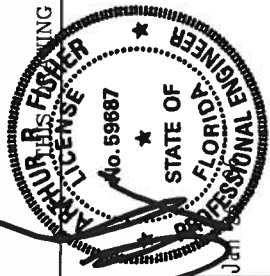
"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

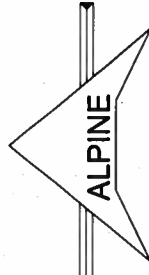
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

1.10 x 6' 7" = 7' 3"



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 DONDORF DR., SUITE 200, MADISON, WI 53719) AND VITCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/S/X) ASTM A653 GRADE 40/60 (W/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY 40/60 (W/H/S) GALV. STEEL PLATES 16GA. ANY INSTALLATION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNE 4.3 OF TPI 1-2008 SEC. 5.1.2. THE DESIGNER SHALL BE RESPONSIBLE FOR 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

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
-ENG	DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

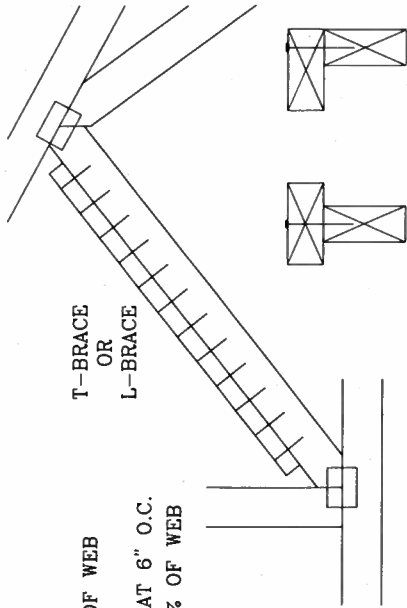
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

T-BRACING
OR
L-BRACING:

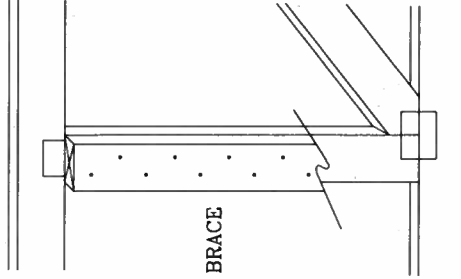
APPLY TO EITHER SIDE OF WEB
NARROW FACE
ATTACH WITH 16d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB
MEMBER LENGTH



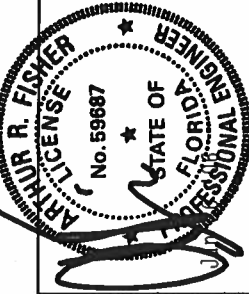
T-BRACE
OR
L-BRACE

SCAB BRACING:

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

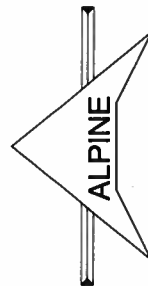


SCAB BRACE



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS DESIGN INSTITUTE, 893 PONDGRIND DR., SUITE 200, MADISON, WI 53719) AND VITCA (WOOD TRUSS COUNCIL, 1000 N. 10TH ST., SUITE 100, MADISON, WI 53706) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL BE 2X6 OR 2X8, BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, 2018), ALPINE TRUSS DESIGN SPEC, 2018, AND ALL APPLICABLE CODES. ALL TRUSSES SHALL BE MADE OF 2018/16GA (40/60 C/W/4/S) GALV. STEEL. CORROSION RESISTANT FINISHES SHALL BE USED. ALL TRUSSES SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

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				

BEARING BLOCK NAIL SPACING DETAIL

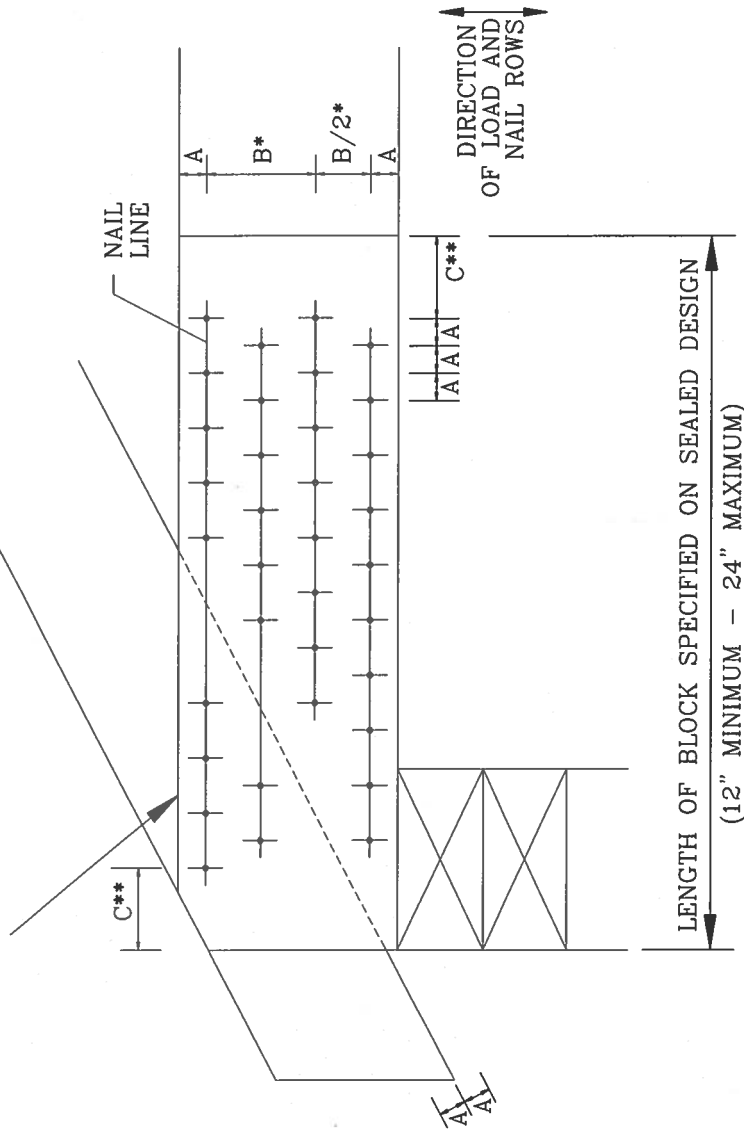
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

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

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

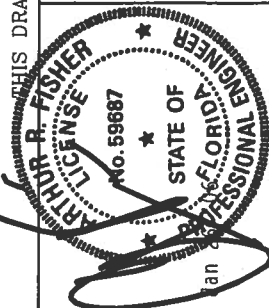
BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (F_c -perp) IS AT LEAST THAT OF THE CHORD.



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

MINIMUM NAIL SPACING DISTANCES

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



THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

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 DONDORF DR., SUITE 200, MADISON, WI 53719) AND VTCA (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.

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ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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