

DATE 11/22/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025251

APPLICANT LINDA RODER PHONE 752-2281
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024
OWNER SETH HEITZMAN PHONE 867-1295
ADDRESS 536 NW SPRING HOLLOW BLVD LAKE CITY FL 32055
CONTRACTOR SETH HEITZMAN PHONE 867-1295
LOCATION OF PROPERTY 90E, TL ON LAKE JEFFREY ROAD, TL ON SPRING HOLLOW
BLVD, LOT ON LEFT ACROSS FROM PERKINS PLACE

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 99300.00
HEATED FLOOR AREA 1986.00 TOTAL AREA 3017.00 HEIGHT 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB
LAND USE & ZONING RSF-2 MAX. HEIGHT 24
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 24-3S-16-02273-021 SUBDIVISION SPRNG HOLLOW
LOT 30 BLOCK PHASE UNIT 0 TOTAL ACRES

000001262 CBC1251065
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 05-1149-N BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE, HOMEOWNERS LETTER ON FILE

Check # or Cash 2446

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 500.00 CERTIFICATION FEE \$ 15.09 SURCHARGE FEE \$ 15.09
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 \$ 25.00 TOTAL FEE 630.18

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 INCONVINCE, 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.

Columbia County Building Permit Application

Revised 9-23-04

C/C# 2446 / Eft 11/21/06
messaw

For Office Use Only Application # 0610-39 Date Received 10/11 By JW Permit # 1262/25261
 Application Approved by - Zoning Official BLK Date 20.11.06 Plans Examiner OK JTH Date 11-22-06
 Flood Zone X-1 Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. In Dev.
 Comments EN X-1/RSF-2 Plan

Applicants Name Linda Roder Phone 758-2037
 Address 387 SW Kemp Ct Lake City FL 32024
 Owners Name Seth Heitzman Construction Phone 867-1295
 911 Address 536 NW Spring Hollow Blvd Lake City FL 32055
 Contractors Name Seth Heitzman Phone 867-1295
 Address POB 1046 Lake City FL 32025
 Fee Simple Owner Name & Address NA
 Bonding Co. Name & Address NA
 Architect/Engineer Name & Address Will Myers - Mark Disosway
 Mortgage Lenders Name & Address 1st Federal

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

Property ID Number 24-35-16-02273-021 Estimated Cost of Construction 145K

Subdivision Name Spring Hollow Lot 30 Block Unit Phase

Driving Directions 90 E, L on Lake Jeffrey Road, L on Spring Hollow Blvd, Lot on left across from Perkins Place

Type of Construction SPD Number of Existing Dwellings on Property 0
 Total Acreage 0.5 Lot Size Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 32'-8" Side 32'-8" Side 27'-4" Rear 69'-5"
 Total Building Height 24' Number of Stories 1 Heated Floor Area 1986 Roof Pitch 8-12
 TOTAL 3017

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) Linda R. Roder
 Commission # DD303275
 Expires: Mar 24, 2008
 Bonded Thru Atlantic Bonding Co., Inc.

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this day of 20

Personally known or Produced Identification

Contractor Signature [Signature]
 Contractors License Number CBC 1251065
 Competency Card Number
 NOTARY STAMP/SEAL

[Signature]
 Notary Signature

June 27, 2006

Columbia County Building Department
Attn: Mr. Johnny Kerce
P. O. Drawer 1529
Lake City, FL 32056

Re: Seth Heitzman Construction, Inc.
Permit Lot #30
Spring Hollow Subdivision (Spec. House)

Dear Mr. Kerce:

After having reviewed the plans submitted by Seth Heitzman Construction, Inc. for Lot #30 in the Spring Hollow Subdivision, we find the proposed structure to be in conformance with the standards for the subdivision.

Thank you again for the opportunity to assure this conformance in advance.

Sincerely,

A handwritten signature in dark ink, reading "James S. Thomson". The signature is fluid and cursive, with the first name "James" being the most prominent.

James S. Thomson
445 N. Spring Hollow Blvd.
Lake City, FL 32055

Cc: J. S. Thomson
Seth Heitzman Construction, Inc.

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 05-723
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Inst:2005023787 Date:09/27/2005 Time:15:26

Doc Stamp-Deed : 245.00

DC,P.Dewitt Cason,Columbia County B:1059 P:2028

Property Appraiser's
Identification Number

WARRANTY DEED

This Warranty Deed, made this 16th day of September, 2005, BETWEEN JESUIS EDMOND and VAYOLA EDMOND, Husband and Wife whose post office address is 2640 39th Street, Naples, FL 34117, of the County of Columbia, State of Florida, grantor*, and SETH HEITZMAN CONSTRUCTION, INC., A Florida Corporation, whose post office address is Post Office Box 3642, Lake City, FL 32025, of the County of Columbia, State of Florida, grantee*.

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 30, SPRING HOLLOW SUBDIVISION, a subdivision according to the plat thereof as recorded in Plat Book 4, Pages 19-19A of the public records of Columbia County, Florida.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Inst:2005023787 Date:09/27/2005 Time:15:26

Doc Stamp-Deed : 245.00

DC,P.Dewitt Cason,Columbia County B:1059 P:2029

Signed, sealed and delivered
in our presence:

Rosevelt Antione
(Signature of First Witness)
Rosevelt Antione
(Typed Name of First Witness)

JESUIS EDMOND
(Signature of Second Witness)
JESUIS EDMOND
(Typed Name of Second Witness)

JESUIS EDMOND (SEAL)
Grantor
JESUIS EDMOND
Printed Name

VAYOLA EDMOND (SEAL)
Grantor
VAYOLA EDMOND
Printed Name

STATE OF Florida
COUNTY OF Collier

The foregoing instrument was acknowledged before me this 17th
day of September, 2005, by JESUIS EDMOND and VAYOLA EDMOND, Husband
and Wife who are personally known to me or who have produced
as identification and who did not take an oath.

My Commission Expires: 5/20/09
(Notary Seal)

[Signature]
Notary Public
Printed, typed, or stamped name:



THIS INSTRUMENT WAS PREPARED BY:
TERRY McDAVID 05-723
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst: 2005023789 Date: 09/27/2005 Time: 15:26
DC, P. DeWitt Cason, Columbia County B: 1059 P: 2038

PERMIT NO. _____

TAX FOLIO NO.: PART OF R02273-021

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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.

1. Description of property:

Lot 30, SPRING HOLLOW SUBDIVISION, a subdivision according to the plat thereof as recorded in Plat Book 4, Pages 19-19A of the public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:

a. Name and address: SETH HEITZMAN CONSTRUCTION, INC.
Post Office Box 3642, Lake City, Florida ~~32025~~ 32056

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner): None

4. Contractor: SETH HEITZMAN CONSTRUCTION, INC.
Post Office Box 3642, Lake City, Florida ~~32025~~ 32056

5. Surety n/a

a. Name and address:
b. Amount of bond:

6. Lender: FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 US Highway 90 West, Lake City, FL 32055

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes: NONE

8. In addition to himself, Owner designates TERESA DAVIS of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 US Highway 90 West, Lake City, FL 32055 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).
September 16, 2006.

SETH HEITZMAN CONSTRUCTION, INC.


By: SETH HEITZMAN, President

The foregoing instrument was acknowledged before me this 16th day of September, 2005, by SETH HEITZMAN, as President of SETH HEITZMAN CONSTRUCTION, INC., A Florida Corporation, who is personally known to me and who did not take an oath.




Notary Public
commission expires: _____

123.74'

15'-0" REAR SETBACK

137.59'

10'-0" SIDE SETBACK

SETH HEITZMAN CONST.
LOT 30, SPRING HOLLOW
LAKE CITY, FLORIDA 32055

190.00'

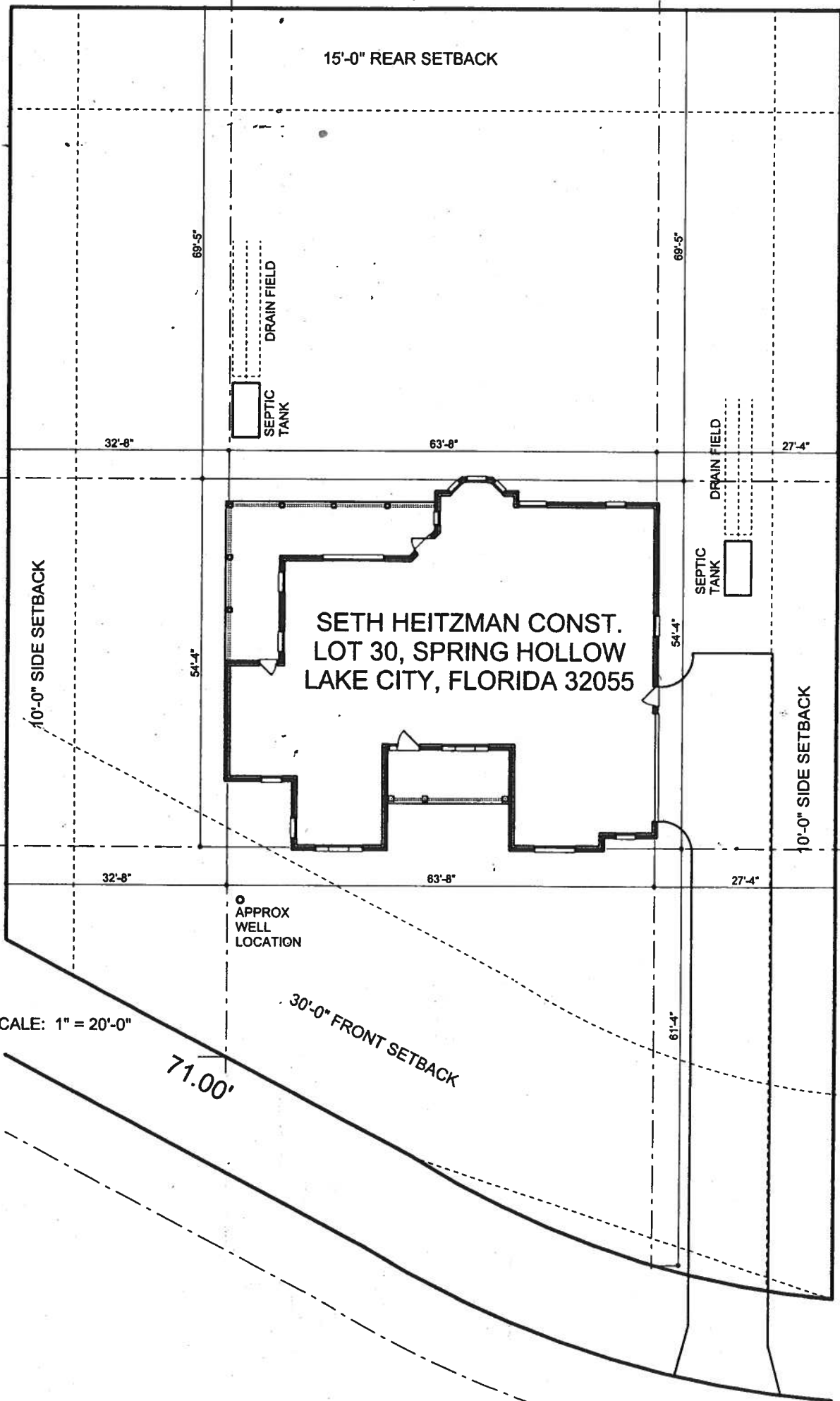
10'-0" SIDE SETBACK

○ APPROX
WELL
LOCATION

30'-0" FRONT SETBACK

SCALE: 1" = 20'-0"

71.00'



FROM :

PRK NO. : 385-755-7822

Sep. 17 2002 01:52PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4" & 6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (904) 755-7824
FAX (904) 755-7825
904 NW Main Blvd.
LAKE CITY, FLORIDA 32055

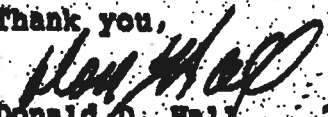
June 12, 2002

NOTICE TO ALL CONTRACTORS

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.

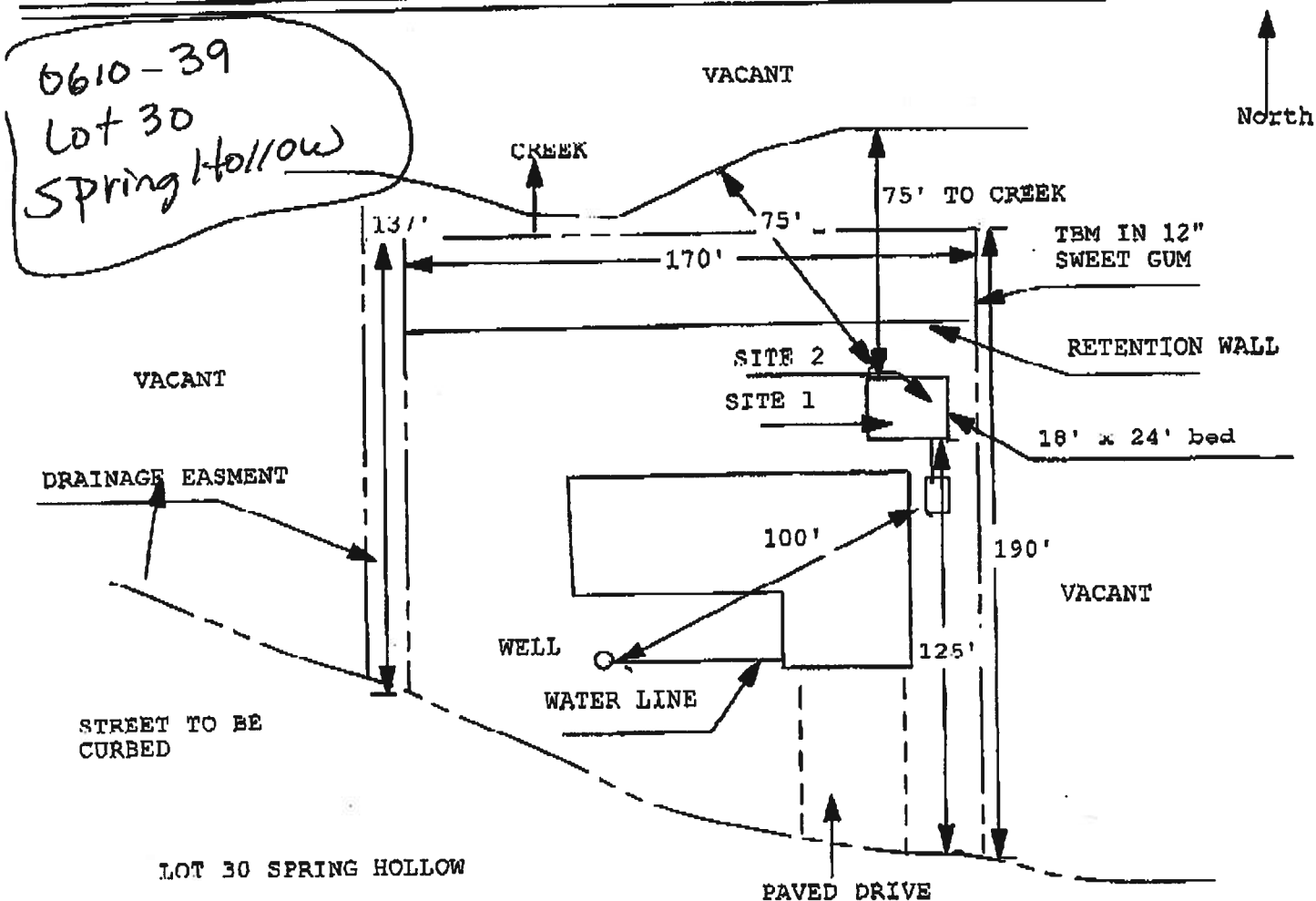
If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 05-1149-N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



OCCUPIED ACROSS STREET >75' TO WELL

U9/20/06 RESITE

CR# 05-3008 HEITSMAN

1 inch = 50 feet

Site Plan Submitted By Paul Lloyd

Date 9/22/06

Plan Approved X Not Approved _____

Date _____

By Sally Maddy ESI

Columbia CHD PHU

Notes: _____

REVISED
9/22/06

RECEIVED
9/22/06
1-5000

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **Seth Heitzman Construction**
Address: **Lot: 30, Sub: Spring Hollow, Plat:**
City, State: **Lake City, FL 32025-**
Owner: **Spec House**
Climate Zone: **North**

Builder: **Seth Heitzman Const.**
Permitting Office: **Columbia**
Permit Number: **25251**
Jurisdiction Number: **24000**

1. New construction or existing New ☐
2. Single family or multi-family Single family ☐
3. Number of units, if multi-family 1 ☐
4. Number of Bedrooms 5 ☐
5. Is this a worst case? No ☐
6. Conditioned floor area (ft²) 2629 ft² ☐
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor: Description Area
(or Single or Double DEFAULT) 7a. (Dble Default) 454.0 ft² ☐
 - b. SHGC:
(or Clear or Tint DEFAULT) 7b. (Clear) 454.0 ft² ☐
8. Floor types
 - a. Slab-On-Grade Edge Insulation R=0.0, 278.0(p) ft ☐
 - b. N/A ☐
 - c. N/A ☐
9. Wall types
 - a. Frame, Wood, Exterior R=13.0, 2002.0 ft² ☐
 - b. Frame, Wood, Adjacent R=13.0, 250.0 ft² ☐
 - c. N/A ☐
 - d. N/A ☐
 - e. N/A ☐
10. Ceiling types
 - a. Under Attic R=30.0, 2829.0 ft² ☐
 - b. N/A ☐
 - c. N/A ☐
11. Ducts(Leak Free)
 - a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6.0, 50.0 ft ☐
 - b. N/A ☐

12. Cooling systems
 - a. Central Unit Cap: 57.0 kBtu/hr
SEER: 11.00 ☐
 - b. N/A ☐
 - c. N/A ☐
13. Heating systems
 - a. Electric Heat Pump Cap: 57.0 kBtu/hr
HSPF: 6.80 ☐
 - b. N/A ☐
 - c. N/A ☐
14. Hot water systems
 - a. Electric Resistance Cap: 50.0 gallons
EF: 0.90 ☐
 - b. N/A ☐
 - c. Conservation credits
(HR-Heat recovery, Solar
DHP-Dedicated heat pump) ☐
15. HVAC credits
(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating) ☐

Glass/Floor Area: 0.17

Total as-built points: 40833

Total base points: 40948

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: William Myers (DESIGN)

DATE: 3.15.06

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

OWNER/AGENT: Frank Rode

DATE: 10-6-06

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: Lot: 30, Sub: Spring Hollow, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ormt Len Hgt			Area X SPM X SOF = Points			
.18	2629.0	20.04	9483.3	Double, Clear	W	1.5	5.0	16.0	38.52	0.88	539.7
				Double, Clear	W	1.5	4.0	6.0	38.52	0.82	189.0
				Double, Clear	NW	20.5	9.7	20.0	25.97	0.54	280.5
				Double, Clear	W	20.5	8.0	36.0	38.52	0.38	531.0
				Double, Clear	SW	15.5	7.7	20.0	40.16	0.39	316.1
				Double, Clear	W	15.5	8.0	15.0	38.52	0.41	238.2
				Double, Clear	S	10.5	8.0	42.0	35.87	0.49	731.2
				Double, Clear	W	1.5	8.0	60.0	38.52	0.96	2214.6
				Double, Clear	W	1.5	6.0	30.0	38.52	0.91	1055.6
				Double, Clear	N	1.5	6.0	45.0	19.20	0.94	811.0
				Double, Clear	W	1.5	4.0	12.0	38.52	0.82	377.9
				Double, Clear	E	1.5	8.0	51.0	42.06	0.96	2054.1
				Double, Clear	E	9.5	9.7	22.0	42.06	0.52	483.2
				Double, Clear	E	1.5	8.0	14.0	42.06	0.96	563.9
				Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.9
				Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.9
				Double, Clear	S	1.5	6.0	15.0	35.87	0.86	460.6
				Double, Clear	S	1.5	6.0	20.0	35.87	0.86	614.2
				As-Built Total:			454.0			12612.6	
WALL TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM		= Points		
Adjacent	250.0	0.70	175.0	Frame, Wood, Exterior	13.0		2002.0	1.50	3003.0		
Exterior	2002.0	1.70	3403.4	Frame, Wood, Adjacent	13.0		250.0	0.60	150.0		
Base Total:		2252.0	3578.4	As-Built Total:		2252.0		3153.0			
DOOR TYPES		Area X BSPM = Points		Type			Area X SPM		= Points		
Adjacent	18.0	1.60	28.8	Exterior Insulated			20.0	4.10	82.0		
Exterior	20.0	4.10	82.0	Adjacent Insulated			18.0	1.60	28.8		
Base Total:		38.0	110.8	As-Built Total:		38.0		110.8			
CEILING TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM X SCM		= Points		
Under Attic	2629.0	1.73	4548.2	Under Attic	30.0		2629.0	1.73 X 1.00	4894.2		
Base Total:		2629.0	4548.2	As-Built Total:		2629.0		4894.2			

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 30, Sub: Spring Hollow, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM = Points	
Slab	278.0(p)	-37.0	-10286.0	Slab-On-Grade Edge Insulation	0.0	278.0(p)	-41.20 -11453.6
Raised	0.0	0.00	0.0				
Base Total: -10286.0				As-Built Total: 278.0 -11453.6			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
	2629.0	10.21	26842.1			2629.0	10.21 26842.1
Summer Base Points: 34276.8				Summer As-Built Points: 36159.1			
Total Summer X System = Cooling Points Multiplier Points				Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
34276.8 0.4266 14622.5				(sys 1: Central Unit 57000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 36159 1.00 (1.09 x 1.000 x 1.00) 0.310 1.000 12228.9 36159.1 1.00 1.090 0.310 1.000 12228.9			

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

ADDRESS: Lot: 30, Sub: Spring Hollow, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2629.0	12.74	6028.8	Double, Clear	W	1.5	5.0	16.0	20.73	1.03	343.2
				Double, Clear	W	1.5	4.0	6.0	20.73	1.05	131.0
				Double, Clear	NW	20.5	9.7	20.0	24.30	1.03	502.3
				Double, Clear	W	20.5	8.0	36.0	20.73	1.23	920.9
				Double, Clear	SW	15.5	7.7	20.0	16.74	1.93	645.8
				Double, Clear	W	15.5	8.0	15.0	20.73	1.22	379.6
				Double, Clear	S	10.5	8.0	42.0	13.30	3.13	1750.1
				Double, Clear	W	1.5	8.0	60.0	20.73	1.01	1257.5
				Double, Clear	W	1.5	6.0	30.0	20.73	1.02	636.4
				Double, Clear	N	1.5	6.0	45.0	24.58	1.00	1108.6
				Double, Clear	W	1.5	4.0	12.0	20.73	1.05	261.9
				Double, Clear	E	1.5	8.0	51.0	18.79	1.02	977.5
				Double, Clear	E	9.5	9.7	22.0	18.79	1.28	529.6
				Double, Clear	E	1.5	8.0	14.0	18.79	1.02	268.3
				Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.9
				Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.9
				Double, Clear	S	1.5	6.0	15.0	13.30	1.12	222.9
				Double, Clear	S	1.5	6.0	20.0	13.30	1.12	297.2
				As-Built Total:				454.0	10816.7		
WALL TYPES				Area X BWPM = Points		Type		R-Value		Area X WPM = Points	
Adjacent	250.0	3.60	900.0	Frame, Wood, Exterior		13.0		2002.0	3.40	6806.8	
Exterior	2002.0	3.70	7407.4	Frame, Wood, Adjacent		13.0		250.0	3.30	825.0	
Base Total:		2252.0	8307.4	As-Built Total:				2252.0	7631.8		
DOOR TYPES				Area X BWPM = Points		Type		Area X WPM = Points			
Adjacent	18.0	8.00	144.0	Exterior Insulated		20.0		8.40	168.0		
Exterior	20.0	8.40	168.0	Adjacent Insulated		18.0		8.00	144.0		
Base Total:		38.0	312.0	As-Built Total:				38.0	312.0		
CEILING TYPES				Area X BWPM = Points		Type		R-Value		Area X WPM X WCM = Points	
Under Attic	2629.0	2.05	5389.4	Under Attic		30.0		2829.0	2.05 X 1.00	5799.4	
Base Total:		2629.0	5389.4	As-Built Total:				2829.0	5799.4		

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

ADDRESS: Lot: 30, Sub: Spring Hollow, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points		
Slab	278.0(p)	8.9	2474.2	Slab-On-Grade Edge Insulation	0.0	278.0(p)	18.80	5226.4
Raised	0.0	0.00	0.0					
Base Total:				As-Built Total:		278.0		5226.4
INFILTRATION Area X BWPM = Points				Area X WPM = Points				
	2629.0	-0.59	-1551.1			2629.0	-0.59	-1551.1
Winter Base Points: 20960.8				Winter As-Built Points: 28235.2				
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
20960.8		0.6274	13150.8	(sys 1: Electric Heat Pump 57000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0				
				28235.2	1.000	(1.069 x 1.000 x 1.00)	0.501	1.000 15136.1
				28235.2	1.00	1.069	0.501	1.000 15136.1

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 30, Sub: Spring Hollow, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank X Ratio	Multiplier X Credit	= Total Multiplier
5		2635.00	13175.0	50.0	0.90	5	1.00	2693.56	1.00 13467.8
				As-Built Total:					13467.8

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
14622		13151	13175 40948	12229		15136	13468 40833

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 30, Sub: Spring Hollow, Plat: , 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 joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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 circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.1

The higher the score, the more efficient the home.

Spec House, Lot: 30, Sub: Spring Hollow, Plat: , 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: 57.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	5	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	2629 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: 57.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 454.0 ft ²		HSPF: 6.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 454.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 278.0(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, 2002.0 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 250.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
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, 2829.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
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 EnergyStar™ 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)

Energy Code Compliance

Duct System Performance Report

Project Name:	Seth Heitzman Construction	Builder:	Seth Heitzman Const.
Address:		Permitting Office:	
City, State:	Lake City, FL 32025-	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) ☐ Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) ☐ Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____

DATE: _____

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001262

DATE 11/22/2006 PARCEL ID # 24-3S-16-02273-021

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER SETH HEITZMAN PHONE 867-1295

ADDRESS 536 NW SPRING HOLLOW BLVD LAKE CITY FL 32055

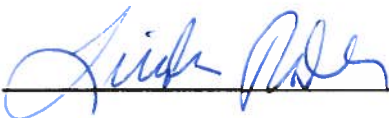
CONTRACTOR SETH HEITZMAN PHONE 867-1295

LOCATION OF PROPERTY 90E, TL ON LAKE JEFFREY, TL ON SPRING HOLLOW BLVD, LOT ON

LEFT ACROSS FROM PERKINS PLACE

SUBDIVISION/LOT/BLOCK/PHASE/UNIT SPRING HOLLOW 30

SIGNATURE



INSTALLATION REQUIREMENTS

☐

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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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

☐

Culvert installation shall conform to the approved site plan standards.

☐

Department of Transportation Permit installation approved standards.

☐

Other _____

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

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

Amount Paid 25.00



Residential System Sizing Calculation

Summary

Spec House

Project Title:
Seth Heltzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

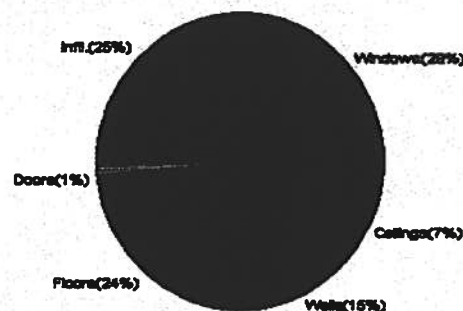
3/15/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	50752 Btuh	Total cooling load calculation	44701 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	112.3 57000	Sensible (SHR = 0.75)	127.9 42750
Heat Pump + Auxiliary(0.0kW)	112.3 57000	Latent	126.2 14250
		Total (Electric Heat Pump)	127.5 57000

WINTER CALCULATIONS

Winter Heating Load (for 2629 sqft)

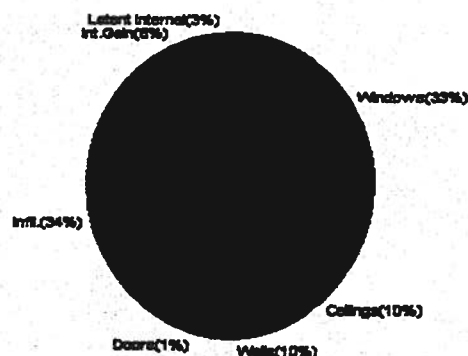
Load component		Load	
Window total	454 sqft	14614	Btuh
Wall total	2252 sqft	7396	Btuh
Door total	38 sqft	492	Btuh
Ceiling total	2829 sqft	3334	Btuh
Floor total	278 sqft	12137	Btuh
Infiltration	315 cfm	12779	Btuh
Duct loss		0	Btuh
Subtotal		50752	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		50752	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2629 sqft)

Load component		Load	
Window total	454 sqft	14885	Btuh
Wall total	2252 sqft	4553	Btuh
Door total	38 sqft	372	Btuh
Ceiling total	2829 sqft	4685	Btuh
Floor total		0	Btuh
Infiltration	276 cfm	5137	Btuh
Internal gain		3780	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		33413	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		10088	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		11288	Btuh
TOTAL HEAT GAIN		44701	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: William Myers DESIGN

DATE: 3.15.06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

3/15/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	16.0		32.2	515 Btuh
2	2, Clear, Metal, 0.87	W	6.0		32.2	193 Btuh
3	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	W	36.0		32.2	1159 Btuh
5	2, Clear, Metal, 0.87	SW	20.0		32.2	644 Btuh
6	2, Clear, Metal, 0.87	W	15.0		32.2	483 Btuh
7	2, Clear, Metal, 0.87	S	42.0		32.2	1352 Btuh
8	2, Clear, Metal, 0.87	W	60.0		32.2	1931 Btuh
9	2, Clear, Metal, 0.87	W	30.0		32.2	966 Btuh
10	2, Clear, Metal, 0.87	N	45.0		32.2	1449 Btuh
11	2, Clear, Metal, 0.87	W	12.0		32.2	386 Btuh
12	2, Clear, Metal, 0.87	E	51.0		32.2	1642 Btuh
13	2, Clear, Metal, 0.87	E	22.0		32.2	708 Btuh
14	2, Clear, Metal, 0.87	E	14.0		32.2	451 Btuh
15	2, Clear, Metal, 0.87	E	15.0		32.2	483 Btuh
16	2, Clear, Metal, 0.87	E	15.0		32.2	483 Btuh
17	2, Clear, Metal, 0.87	S	15.0		32.2	483 Btuh
18	2, Clear, Metal, 0.87	S	20.0		32.2	644 Btuh
Window Total			454(sqft)			14614 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2002		3.3	6575 Btuh
2	Frame - Wood - Adj(0.09)	13.0	250		3.3	821 Btuh
Wall Total			2252			7396 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		18		12.9	233 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			38			492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2829		1.2	3334 Btuh
Ceiling Total			2829			3334 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	278.0 ft(p)		43.7	12137 Btuh
Floor Total			278			12137 Btuh
Zone Envelope Subtotal:						37973 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	23661	315.5		12779 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					50752 Btuh

EnergyGauge® FLRCPB v4.1

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

3/15/2006



	Subtotal Sensible Ventilation Sensible Total Btuh Loss	50752 Btuh 0 Btuh 50752 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 - Winter

Residential Load - Room by Room Component Details

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

3/15/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	16.0	32.2	515 Btuh
2	2, Clear, Metal, 0.87	W	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
5	2, Clear, Metal, 0.87	SW	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	W	15.0	32.2	483 Btuh
7	2, Clear, Metal, 0.87	S	42.0	32.2	1352 Btuh
8	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
9	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
10	2, Clear, Metal, 0.87	N	45.0	32.2	1449 Btuh
11	2, Clear, Metal, 0.87	W	12.0	32.2	386 Btuh
12	2, Clear, Metal, 0.87	E	51.0	32.2	1642 Btuh
13	2, Clear, Metal, 0.87	E	22.0	32.2	708 Btuh
14	2, Clear, Metal, 0.87	E	14.0	32.2	451 Btuh
15	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
16	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
17	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
18	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
Window Total			454(sqft)		14614 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2002	3.3	6575 Btuh
2	Frame - Wood - Adj(0.09)	13.0	250	3.3	821 Btuh
Wall Total			2252		7396 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			38		492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic(D/Shin)	30.0	2829	1.2	3334 Btuh
Ceiling Total			2829		3334 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	278.0 ft(p)	43.7	12137 Btuh
Floor Total			278		12137 Btuh
Zone Envelope Subtotal:					37973 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	23661	315.5	12779 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				50752 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

3/15/2006



	Subtotal Sensible Ventilation Sensible Total Btuh Loss	50752 Btuh 0 Btuh 50752 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

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

3/15/2006

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,0.15,N	W	1.5ft	5ft.	16.0	1.0	15.0	29	37	577 Btuh	
2	2, Clear, 0.87, None,0.15,N	W	1.5ft	4ft.	6.0	0.5	5.5	29	37	216 Btuh	
3	2, Clear, 0.87, None,0.15,N	NW	20.5f	9.66	20.0	0.0	20.0	29	34	672 Btuh	
4	2, Clear, 0.87, None,0.15,N	W	20.5f	8ft.	36.0	36.0	0.0	29	37	1043 Btuh	
5	2, Clear, 0.87, None,0.15,N	SW	15.5f	7.66	20.0	20.0	0.0	29	34	579 Btuh	
6	2, Clear, 0.87, None,0.15,N	W	15.5f	8ft.	15.0	15.0	0.0	29	37	434 Btuh	
7	2, Clear, 0.87, None,0.15,N	S	10.5f	8ft.	42.0	42.0	0.0	29	30	1216 Btuh	
8	2, Clear, 0.87, None,0.15,N	W	1.5ft	8ft.	60.0	0.0	60.0	29	37	2193 Btuh	
9	2, Clear, 0.87, None,0.15,N	W	1.5ft	8ft.	30.0	1.5	28.5	29	37	1085 Btuh	
10	2, Clear, 0.87, None,0.15,N	N	1.5ft	6ft.	45.0	0.0	45.0	29	29	1303 Btuh	
11	2, Clear, 0.87, None,0.15,N	W	1.5ft	4ft.	12.0	1.0	11.0	29	37	431 Btuh	
12	2, Clear, 0.87, None,0.15,N	E	1.5ft	8ft.	51.0	0.0	51.0	29	37	1884 Btuh	
13	2, Clear, 0.87, None,0.15,N	E	9.5f	9.66	22.0	18.4	3.6	29	37	664 Btuh	
14	2, Clear, 0.87, None,0.15,N	E	1.5ft	8ft.	14.0	0.5	13.5	29	37	508 Btuh	
15	2, Clear, 0.87, None,0.15,N	E	1.5ft	6ft.	15.0	0.7	14.3	29	37	543 Btuh	
16	2, Clear, 0.87, None,0.15,N	E	1.5ft	6ft.	15.0	0.7	14.3	29	37	543 Btuh	
17	2, Clear, 0.87, None,0.15,N	S	1.5ft	6ft.	15.0	15.0	0.0	29	30	434 Btuh	
18	2, Clear, 0.87, None,0.15,N	S	1.5ft	6ft.	20.0	20.0	0.0	29	30	579 Btuh	
Window Total						454 (sqft)					14885 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			2002.0			2.1		4176 Btuh	
2	Frame - Wood - Adj	13.0/0.09			250.0			1.5		377 Btuh	
Wall Total						2252 (sqft)					4553 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				18.0			9.8		176 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total						38 (sqft)					372 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			2829.0			1.7		4685 Btuh	
Ceiling Total						2829 (sqft)					4685 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			278 (ft(p))			0.0		0 Btuh	
Floor Total						278.0 (sqft)					0 Btuh
Zone Envelope Subtotal:										24495 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.70			23661			276.0		5137 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			2400		3780 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										33413 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

3/15/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	33413 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	33413 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	33413 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10088 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	11288 Btuh
	TOTAL GAIN	44701 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

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

3/15/2006

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,0.15,N	W	1.5ft	5ft.	16.0	1.0	15.0	29	37	577 Btuh
2	2, Clear, 0.87, None,0.15,N	W	1.5ft	4ft.	6.0	0.5	5.5	29	37	216 Btuh
3	2, Clear, 0.87, None,0.15,N	NW	20.5f	9.66	20.0	0.0	20.0	29	34	672 Btuh
4	2, Clear, 0.87, None,0.15,N	W	20.5f	8ft.	36.0	36.0	0.0	29	37	1043 Btuh
5	2, Clear, 0.87, None,0.15,N	SW	15.5f	7.66	20.0	20.0	0.0	29	34	579 Btuh
6	2, Clear, 0.87, None,0.15,N	W	15.5f	8ft.	15.0	15.0	0.0	29	37	434 Btuh
7	2, Clear, 0.87, None,0.15,N	S	10.5f	8ft.	42.0	42.0	0.0	29	30	1216 Btuh
8	2, Clear, 0.87, None,0.15,N	W	1.5ft	8ft.	60.0	0.0	60.0	29	37	2193 Btuh
9	2, Clear, 0.87, None,0.15,N	W	1.5ft	6ft.	30.0	1.5	28.5	29	37	1085 Btuh
10	2, Clear, 0.87, None,0.15,N	N	1.5ft	6ft.	45.0	0.0	45.0	29	29	1303 Btuh
11	2, Clear, 0.87, None,0.15,N	W	1.5ft	4ft.	12.0	1.0	11.0	29	37	431 Btuh
12	2, Clear, 0.87, None,0.15,N	E	1.5ft	8ft.	51.0	0.0	51.0	29	37	1864 Btuh
13	2, Clear, 0.87, None,0.15,N	E	9.5ft	9.66	22.0	18.4	3.6	29	37	664 Btuh
14	2, Clear, 0.87, None,0.15,N	E	1.5ft	8ft.	14.0	0.5	13.5	29	37	508 Btuh
15	2, Clear, 0.87, None,0.15,N	E	1.5ft	6ft.	15.0	0.7	14.3	29	37	543 Btuh
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1	Slab On Grade	0.0		278 (ft(p))			0.0		0 Btuh	
Floor Total					278.0 (sqft)			0 Btuh		
Zone Envelope Subtotal:										24495 Btuh
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural	0.70		23661			276.0		5137 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load	
	6			X 230 +			2400		3780 Btuh	
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
Sensible Zone Load										33413 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Seth Heitzman Construction

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

3/15/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	33413 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	33413 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	33413 Btuh
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	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	11288 Btuh
	TOTAL GAIN	44701 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)



Residential Window Diversity

MidSummer

Spec House

Lake City, FL 32025-

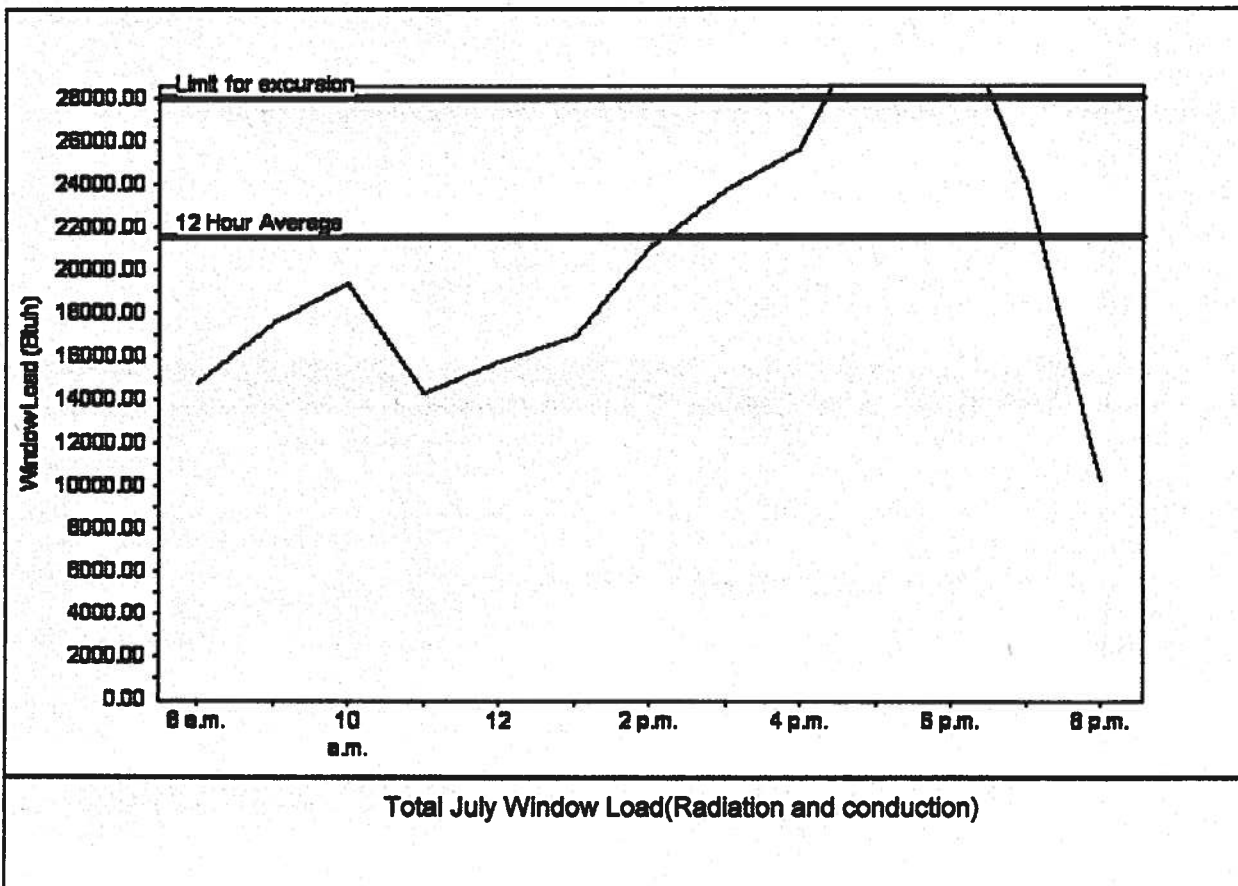
Project Title:
Seth Heltzman Construction

Code Only
Professional Version
Climate: North

3/15/2006

Summer design temperature	92 F	Average window load for July	21575 Btu
Summer setpoint	75 F	Peak window load for July	33213 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	28048 Btu
Latitude	29 North	Window excursion (July)	5165 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



COLUMBIA COUNTY BUILDING DEPARTMENT

**RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR
FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS
ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002**

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u>
		a) Dimensions of lot
		b) Dimensions of building set backs
		c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements.
☒	☐	d) Provide a full legal description of property.
	☐	<u>Wind-load Engineering Summary, calculations and any details required</u>
		a) Plans or specifications must state compliance with FBC Section 1606
		b) The following information must be shown as per section 1606.1.7 FBC
		a. Basic wind speed (MPH)
		b. Wind importance factor (I) and building category
		c. Wind exposure -- if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
		d. The applicable internal pressure coefficient
		e. Components and Cladding. The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☒	☐	<u>Elevations including:</u>
☒	☐	a) All sides
☒	☐	b) Roof pitch
☒	☐	c) Overhang dimensions and detail with attic ventilation
☒	☐	d) Location, size and height above roof of chimneys
☒	☐	e) Location and size of skylights
☒	☐	f) Building height
☒	☐	e) Number of stories

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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 (accessable 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 (termiteicide 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)

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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 termite treatment (termiteicide 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)

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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

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VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency.
No chimney or flue system required.
Wide selection of factory installed options offered.

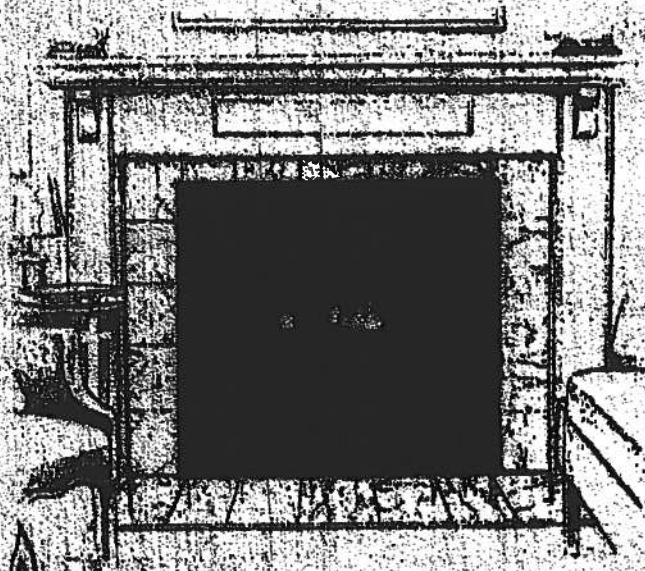
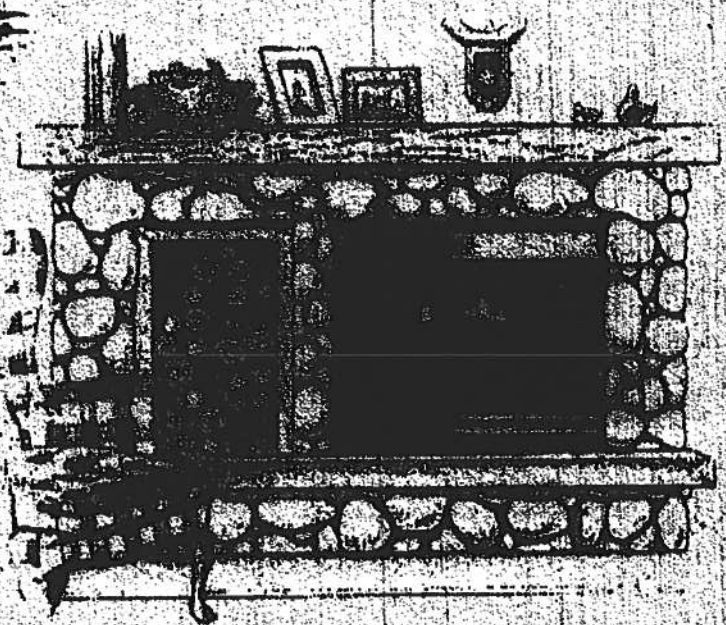


VF-4000

- 14,000 - 25,000 Btu/hr with manual control valve
- 19,500 - 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening

VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers

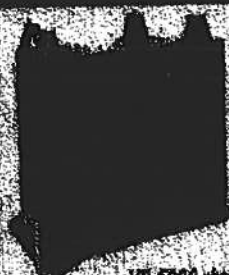


VF-6000

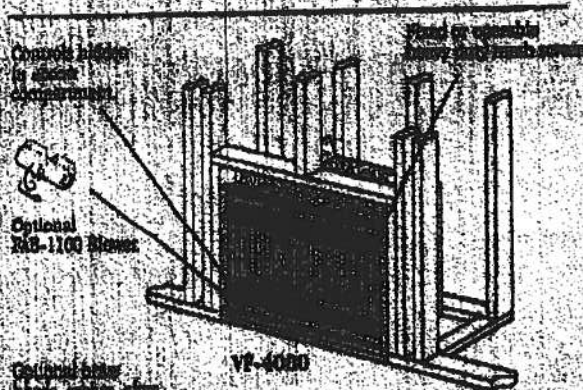
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

SUPERIOR

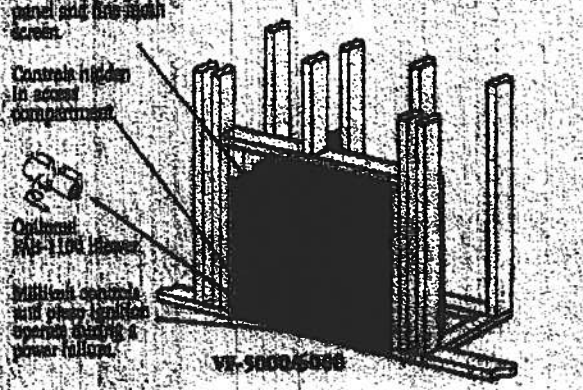
VF-4000/5000/5000S



VF-5000 view from



VF-4000



VF-5000/5000S

SURROUNDS

The Chameleon Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly finished surround. The surround is constructed using easy to install cam locks, and available in corner and wall units.



Distributed by:



Refractory hot brick panels



Gas Duct liner kit



Square brass vent kit



Brass Louver kit (For VF-4 only)



Screen panel kit (For VF-5 & VF-6 only)



Arch kit (For VF-5 & VF-6 only)



Glass door kit (For VF-5 & VF-6 only)



Brass band (For VF-5 & VF-6 only)

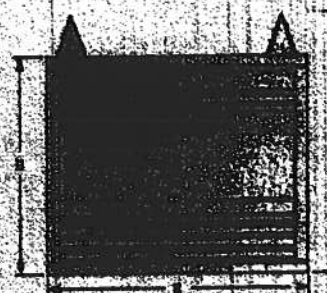


Wall switch or optional vintage remote available (For VF-4, VF-5 & VF-6)

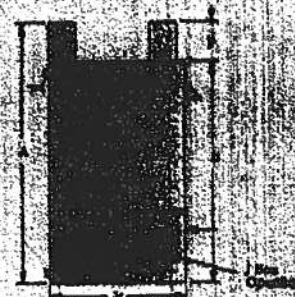


Wall thermostat (For VF-4, VF-5 & VF-6)

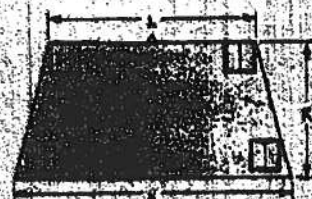
Front View



Left Side View



Top View



VF-5000/5000S

	VF-5000/5000S	VF-4000
Height	36 1/2"	36 1/2"
Width	37"	37"
Depth	15 1/2"	15 1/2"
Weight	110 lbs.	110 lbs.
Material	Refractory brick	Refractory brick
Finish	Paint or stain	Paint or stain
Control	Remote or wall switch	Remote or wall switch
Blower	Optional	Optional
Screen	Optional	Optional
Arch	Optional	Optional
Glass door	Optional	Optional
Brass band	Optional	Optional
Brass Louver	Optional	Optional
Brass vent	Optional	Optional
Gas duct liner	Optional	Optional

Rtn Chart

Model	Neutral	Freight
VF-4000 standard	14,000 - 25,000	14,000 - 25,000
VF-4000/5000 standard	19,500 - 25,000	19,500 - 25,000
VF-5000	25,000 - 32,000	25,000 - 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37 1/2"	15 1/2"
VF-4000	41"	49 3/4"	15 1/2"

NOTE: Dimensions and illustrations are for reference only. Product design, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ASHRAE 90.1-2001 standard and approved by A.S.A. (Report # 12970017).

Contact your distributor for local fireplace code information.



SUPERIOR

www.LexonHeathProducts.com

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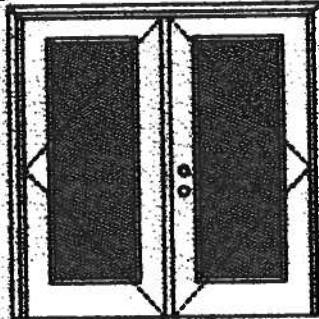
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FAX NO.: +386 758 4735

FROM: LAKE CITY INDUSTRIES

XX**Glazed Outswing Unit**

COP WL JH4102-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:**

Double Door
Maximum unit size - 6'6" x 6'6"

Design Pressure**+40.5/-40.5**

Limited water unless special threshold design is used.

Large Missile Impact Resistance**Hurricane protective system (shutters) is REQUIRED.**

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

Note:

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0012-02 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



153, 126 Series



128 Series



680 Series



822 Series

1/2 GLASS:

105 Series*



106, 160 Series*



129 Series*



200 Series*



12 RL, 23 RL, 34 RL Series*



107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with astral; Eyebrow 5-panel; Eyebrow 5-panel with astral.

Johnson
EntrySystems

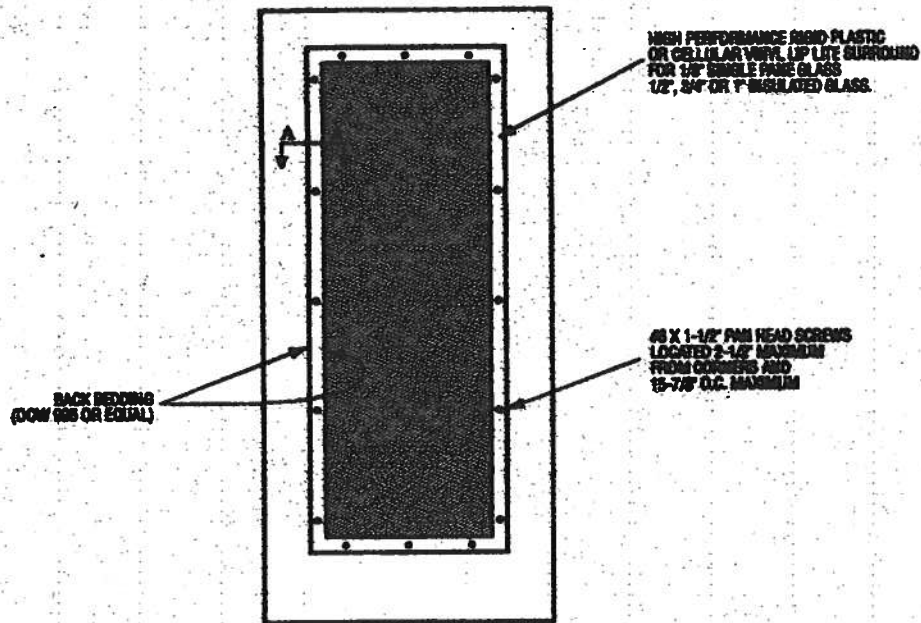
March 28, 2002
Our window program of product improvement, sales, specifications, design and product detail subject to change without notice.



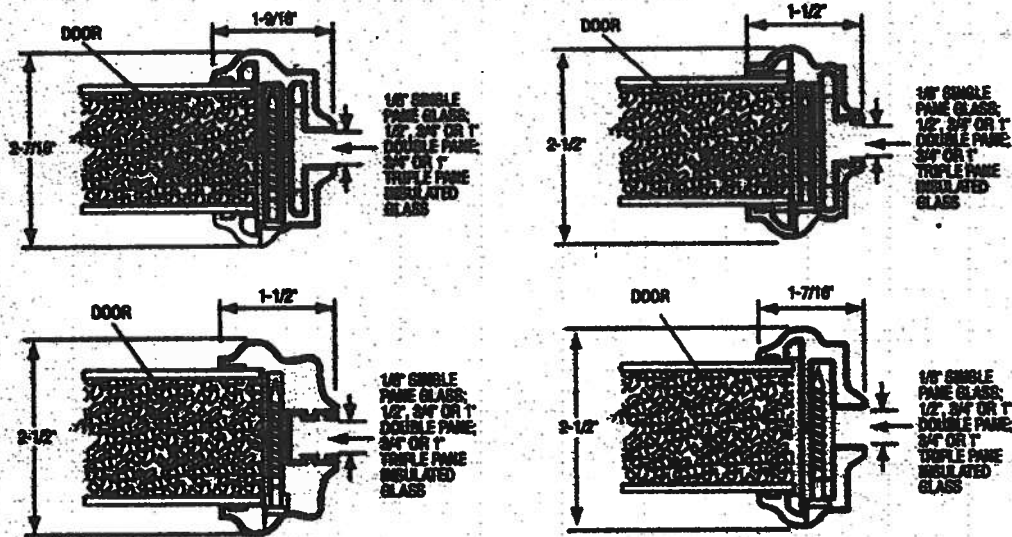
Exclusively from

Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX

Glazed Outswing Unit

CCP-VL JUN162-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

404 Series



410 Series



420 Series

FULL GLASS:

100 Series

114, 120, 122
Series

132 Series



140 Series



200 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1894-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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 lite 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).

State of Florida, Professional Engineer
Kurt Balhezor, P.E. - License Number 58533

Johnson
Entry Systems

March 28, 2002

Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMIERE
Premium Quality Doors



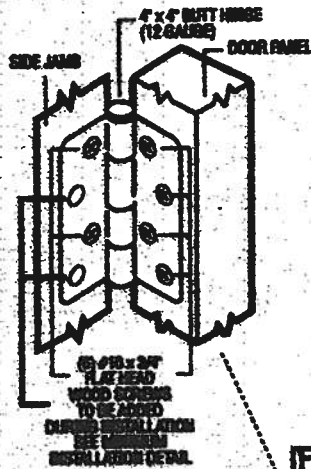
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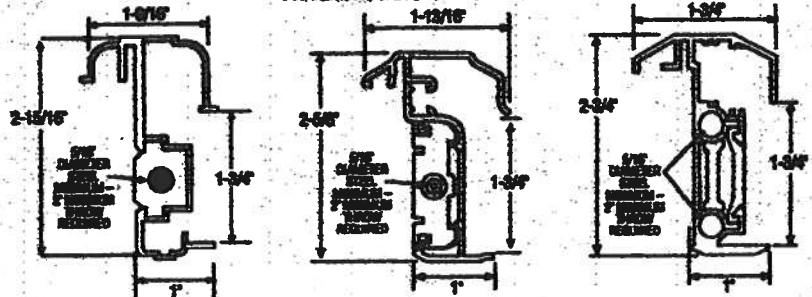
XX
Unit

HEAD-CL WAO012-02
**OUTSWING UNITS WITH
DOUBLE DOOR**

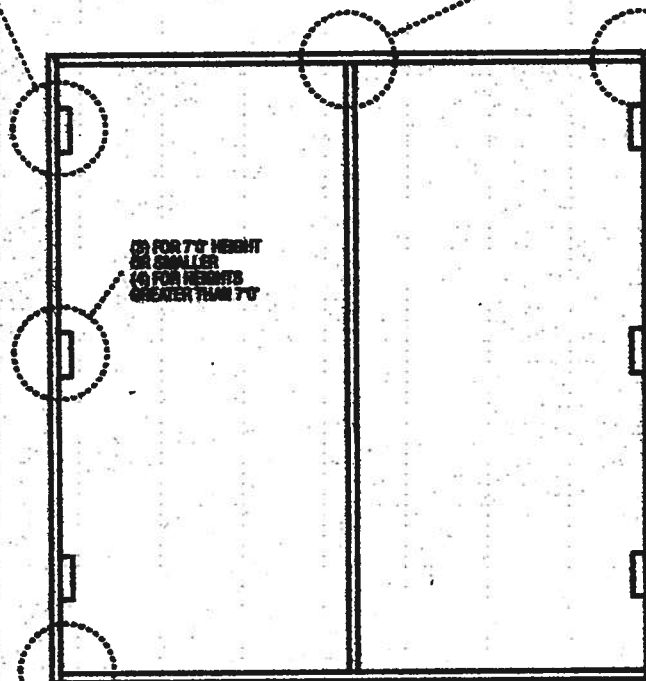
TYPICAL HINGE ATTACHMENT



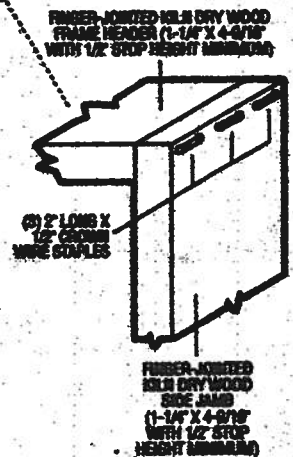
TYPICAL ASTRAGAL PROFILES



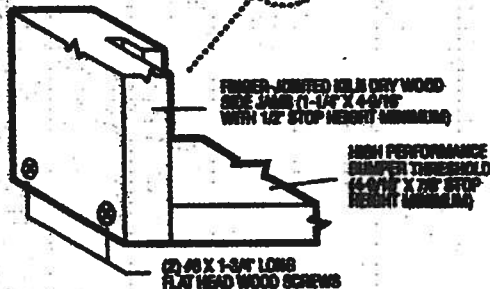
ALUMINUM EXTRUDED ASTRAGAL (1/8" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL BUSHING LATCHING LOCATIONS. ATTACH WITH 48 X 1" PAN HEAD SCREWS—LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



**TYPICAL HEADER &
SIDE JAMB ATTACHMENT**



**TYPICAL THRESHOLD &
SIDE JAMB ATTACHMENT**



March 28, 2002
Our engineering program of product development makes specifications,
design and product detail subject to change without notice.

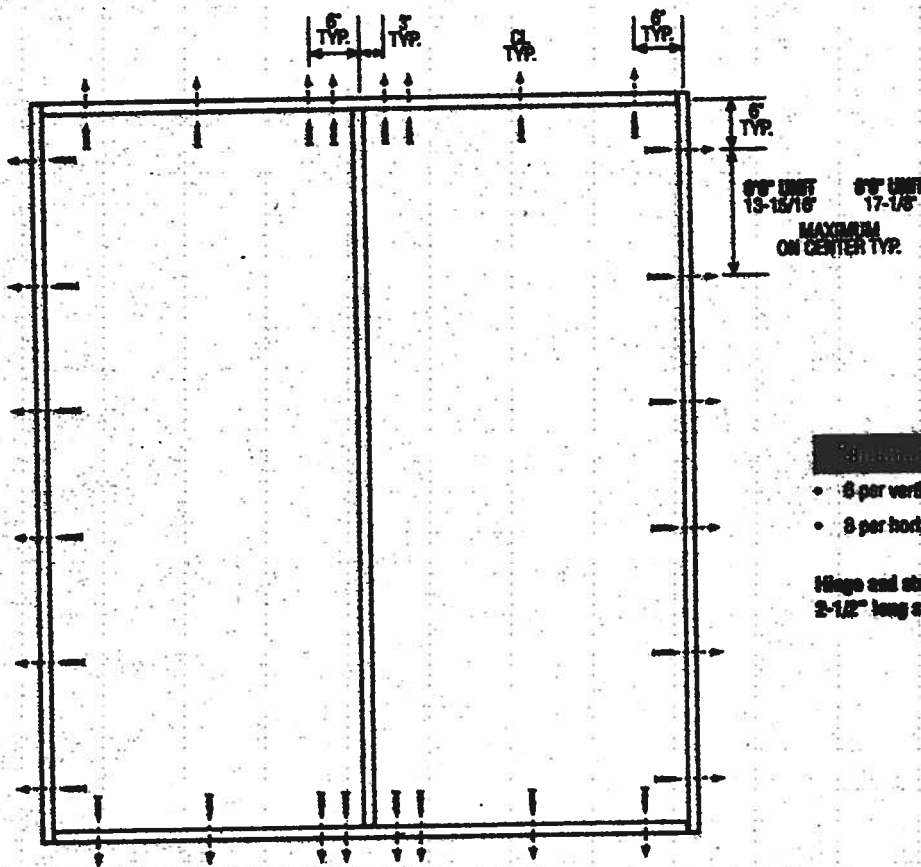


Exclusively from
Masonite
Masonite International Corporation

XX
Unit

IND. UN. - MASONITE-02

DOUBLE DOOR



Minimum Fastener Counts

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

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) 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" Tapcons.
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" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002
Our continuing program of product improvement and/or specification,
design and product detail subject to change without notice.



Exclusively from

Masonite
Masonite International Corporation

I

**AAMA/NWDA 101/1.9-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin

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:nfb


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

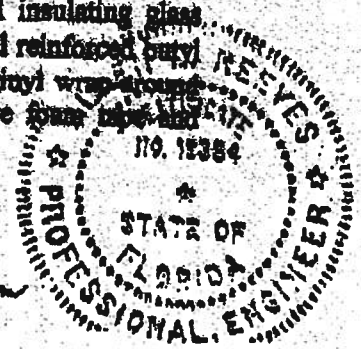
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

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 butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around 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 N. Rasmussen
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 H. 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/L.S. 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)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
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 388-97)		
	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

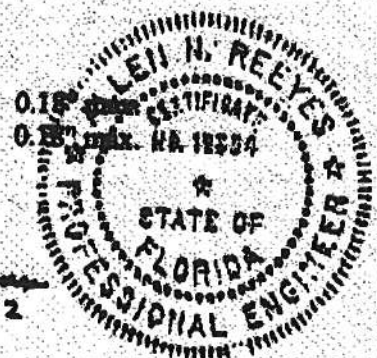
Optional Performance

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 N. Reeves
1 APRIL 2002



VI

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:



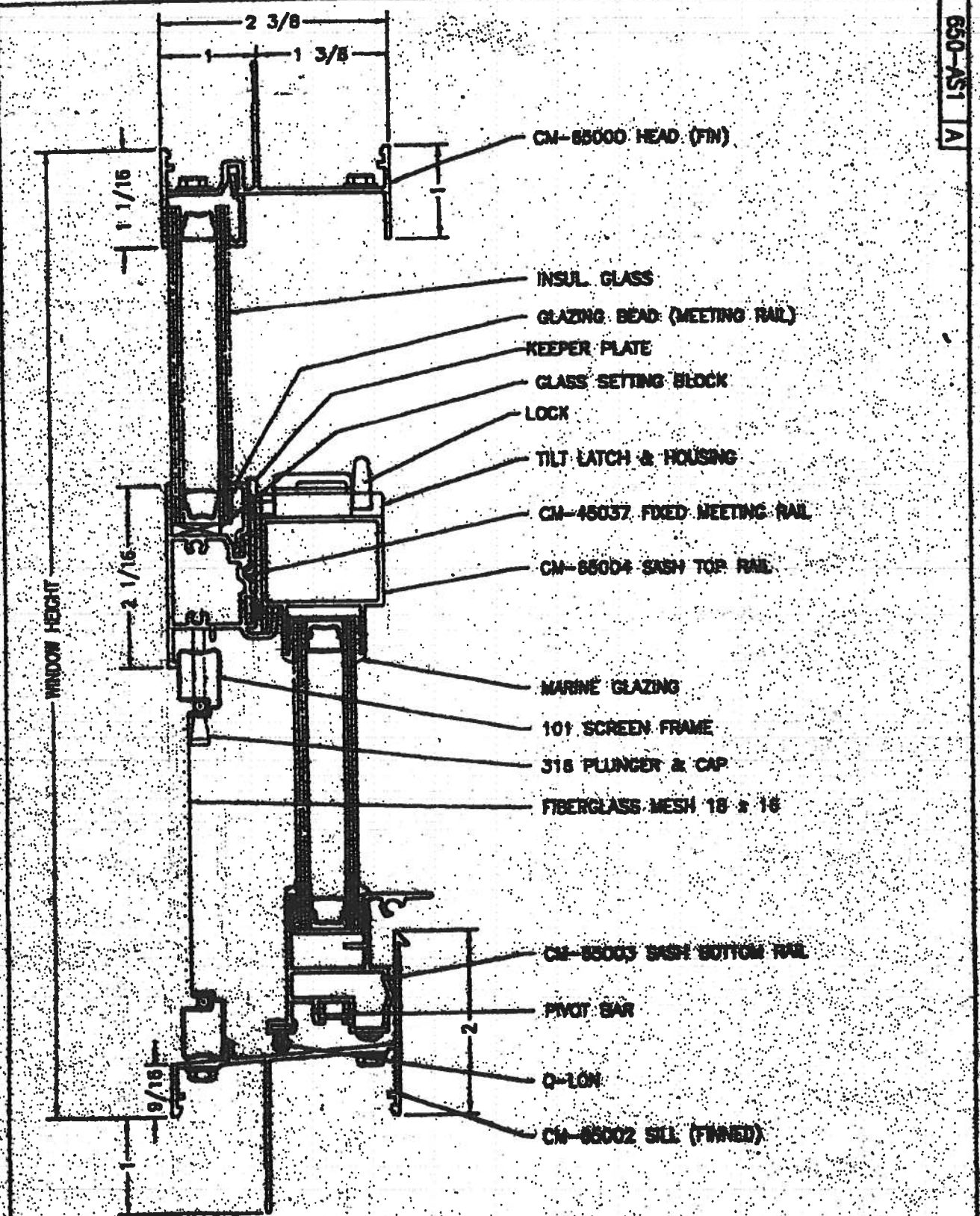
Mark A. Heas
Technician

MAH:nlb
01-41134.01



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





MI HOME PRODUCTS

650 NEW MARKET STREET - GIBBZ, PA - 17036-0370

TITLE

650 SH FIN MAIN FRAME
VERTICAL CROSS SECTION

DATE

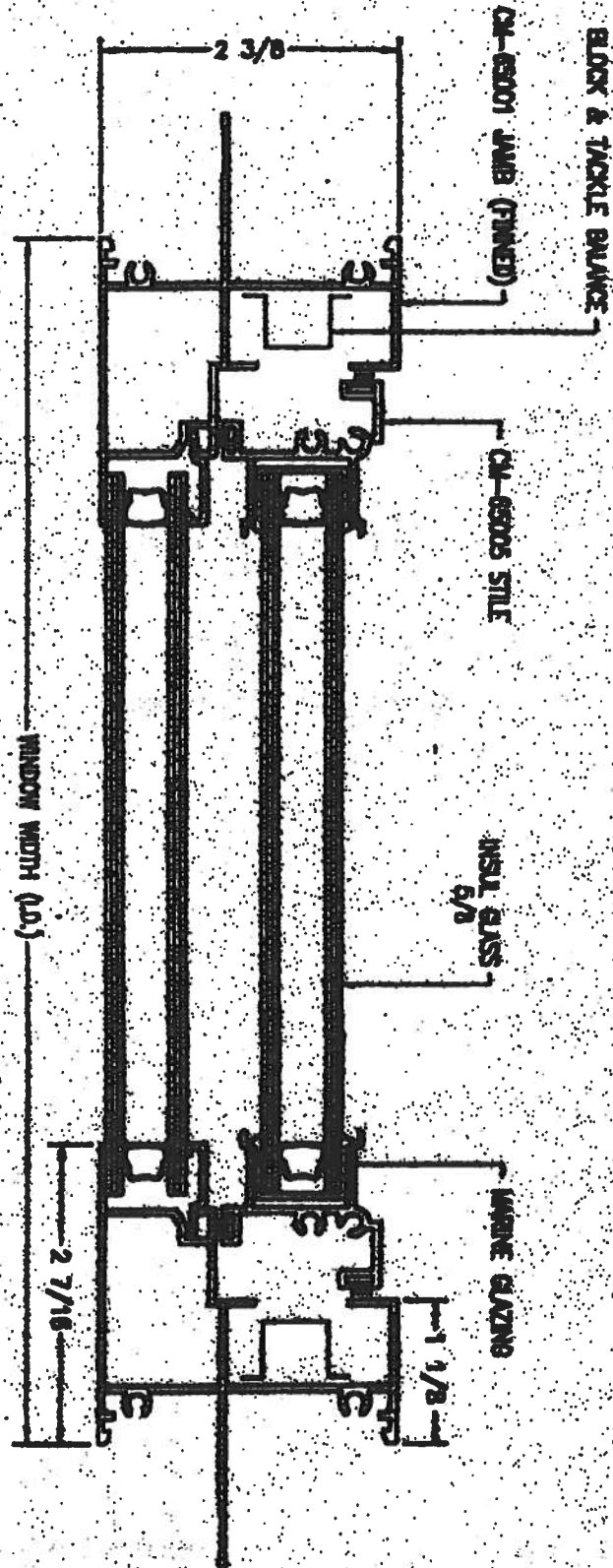
REV

DATE

REV

650-AS1

A



 MI HOME PRODUCTS 850 5TH AVENUE, SUITE 1000, NEW YORK, NY 10017-0000		TITLE 650 SH FIN JAMB INSULATED GLASS HORIZONTAL CROSS SECTION DATE 4-7-02 BY FULL 650-AS2	
		650-AS2	

Florida Building Code Online



FLORIDA BUILDING CODE

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Registration Registration Registration Search Accreditation

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

Organization Product Manufacturer
Type

Approved (All)
Status:

Organization General American Door - Product Manufacturer
Name:

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expiry	Status
General American Door	Montgomery	James Campbell	630.655.1000	Product Manufacturer	01/01/2009	Approved
Org Code FIRM	System ID# 3365	Site Link: www.gadco.com				

Displaying 1-1 of 1

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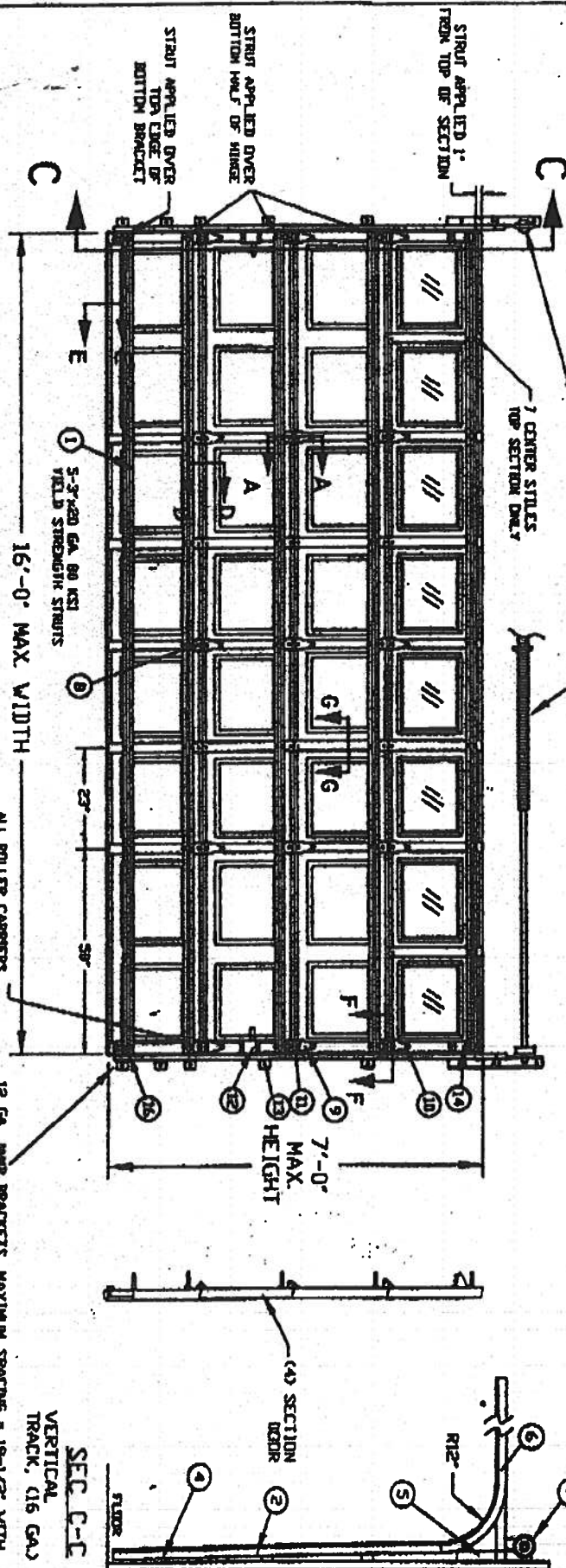
http://www.floridabuilding.org/Commcode_org_reg_SRCH.asp

6/21/2004

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF SECTION AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. WINDOW SECTION HEIGHT: 21'
3. SECTION HEIGHTS OF 21' AND 19' ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH 1/2" BOLTS OR GLASS OR EQUIVALENT, OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. WINDOW LENGTH OF ROLLER STEEL IS 34' OR AS TESTED
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SAMPLE.
7. STRUTS SECURED AT ALL LOCATIONS WITH HEX SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE Q1, Q2 OR Q3 AS NOTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL.

NOT PART OF VARIOUS LOAD SYSTEM
EXTENSION SPRING COUNTERBALANCE
TURNING SPRING COUNTERBALANCE

**INSIDE ELEVATION**

16'-0" MAX WIDTH

ALL ROLLER CARROLLERS
AND HOOKS ARE 14 GA

12 GA. JAMB BRACKETS, MAXIMUM SPACING = 19-1/2" WITH
LOWEST BRACKET APPROX. 3' FROM FLOOR, 2ND BRACKET
NEAR THE HORIZONTAL S OF THE BOTTOM SECTION, AND 3RD
BRACKET NEAR THE TOP OF THE BOTTOM SECTION

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

DESIGN LOAD +200 PSF & -200 PSF
TEST LOAD +300 PSF & -300 PSF

TEST REPORTS ON FILE VIDEO 10/19/00 080930

The seal on this drawing only
certifies that the product
illustrated and described herein
conforms to the dimensions and
the door as tested.



GAUGED DOORS
SERIES 7400, EXTERIOR STEEL - 2017 MIN. GVS TESTED
SERIES 7405, EXTERIOR STEEL - 2017 MIN. A
SERIES 7524, EXTERIOR STEEL - 2024 MIN. A
(TESTED WITH WINDOWS)



GENERAL AMERICAN DOOR COMPANY
3050 BASELINE ROAD
MONTICELLO, IL 60053-38

DOOR 30-20-10

APPROVED BY

DATE 11-19-00

REVISION

MAXIMUM
DOOR
WIDTH
16'

MAXIMUM
DOOR
HEIGHT
7'

VERTICAL
CTR. STILE
SPACING
23"

STRUTS
DO NOT
SEC. 3"

VERTICAL
DOOR
THICK
5"

VERTICAL
DOOR
THICK
2 IN.

DOOR 30-20-10

APPROVED BY

DATE 11-19-00

REVISION

DOOR 30-20-10

APPROVED BY

DATE 11-19-00

REVISION

DOOR 30-20-10

APPROVED BY

DATE 11-19-00

REVISION

DOOR 30-20-10

APPROVED BY

DATE 11-19-00

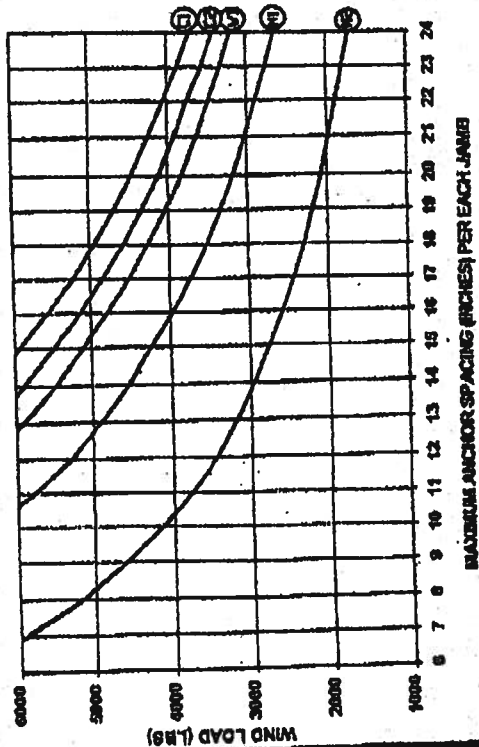
REVISION

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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

NOTES:

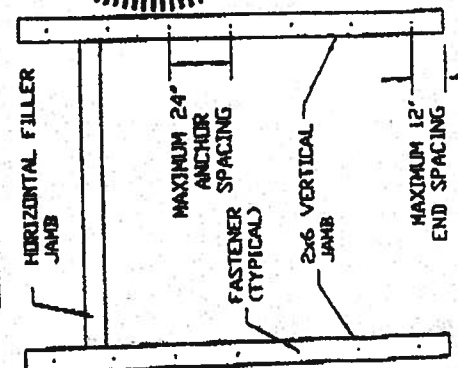
- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" FASTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SUBC "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION" SSTB 10, CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUILDINGS STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2x6 PRESSURE TREATED SOUTHERN PINE (SP) GRADE OR BETTER WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE 2x6 WOOD 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 2500 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2x6 WALL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS, AND AN ADDITIONAL 2x6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO ASSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

WIND LOAD VS ANCHOR SPACING**EXAMPLE**

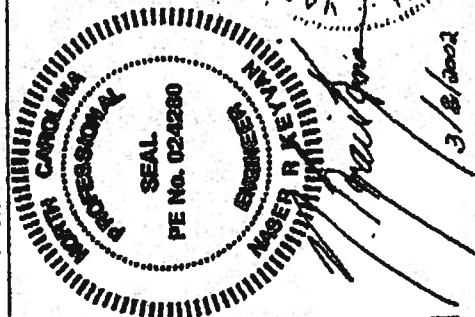
30 LBS/FT² X 16 FT WIDE X 8 FT HIGH = 3840 LBS

- ① USE 22" SPACING
- ② USE 21" SPACING
- ③ USE 19" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIREMENTS FOR 2x6 WOOD JAMB ANCHORS



		GENERAL AMERICAN DOOR COMPANY 5000 BASELINE ROAD MONTGOMERY, IL 60538	
WIND LOAD 30-42 PSF	SPECIFIED BY JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS	REVISION NO. 1	DATE 10/5/00
PROJECT NO. 100560		DRAWN BY JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS	



• 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 \$25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

8. 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 refasten in a new location. Remove all drip edge metal and replace with new.

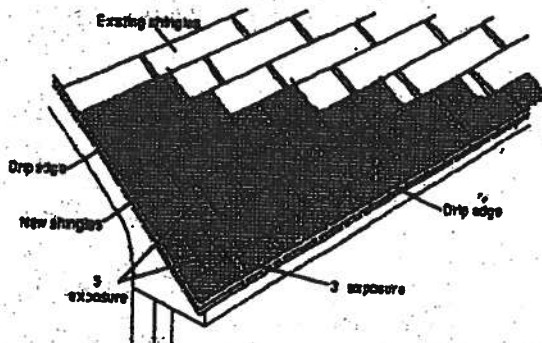
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

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. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First 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 3.

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



rake 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 shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

9. 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 trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No 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 neater installation, snap a chalkline over the shingles for guidance.

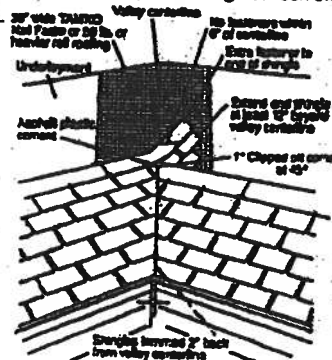
- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

• CAUTION:

Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

Visit Our Web Site at
www.tamko.com

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Northeast District
Southeast District
Southwest District
Western District

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

800-841-4691
800-368-2055
800-228-2656
800-443-1834
800-530-8868

07/01



FEB - 4 REC'D

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.

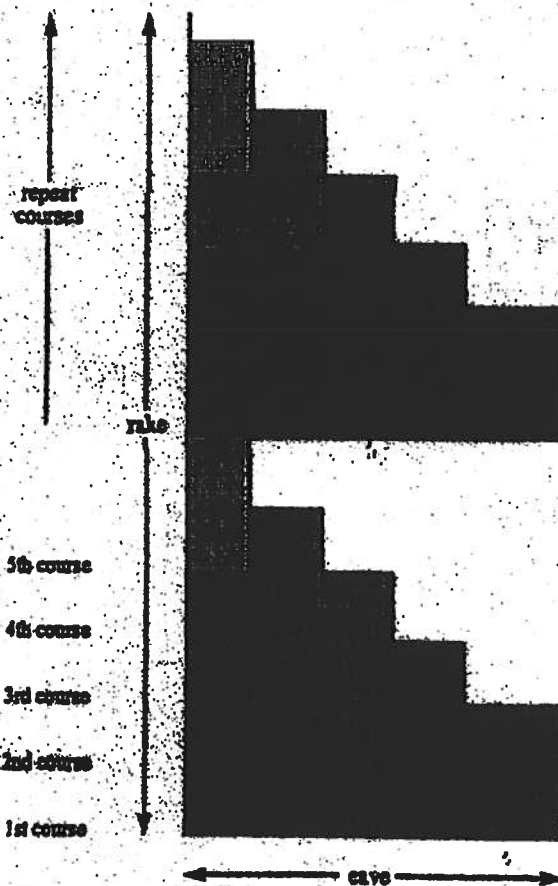
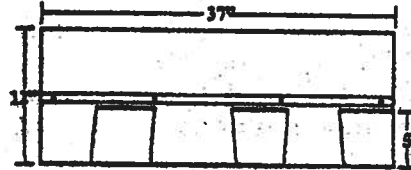
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

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
 - Elite Glass-Seal®
 - Glass-Seal AR
 - 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 ridges.

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 at 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.

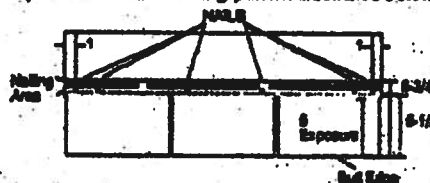
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or 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 8-3/4" 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)

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Western District	8300 East 43rd Ave., Denver, CO 80216

800-641-4691
800-368-2066
800-228-2856
800-443-1834
800-830-8868

07/01

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

#25251

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JF104376 Company Phone No. 385-755-3511
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Scth Heitman Company Phone No. 867-145

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 301 NW Cole Terrace, Lake City, FL 32055

Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside 2 Inside _____ Type of Fill 1/1"

Section 4: Treatment Information

Date(s) of Treatment(s) 1-10-2007
Brand Name of Product(s) Used Cyper-TC
EPA Registration No. 5283-92
Approximate Final Mix Solution % 25
Approximate Size of Treatment Area: Sq. ft. 3017 Linear ft. _____ Linear ft. of Masonry Voids _____
Approximate Total Gallons of Solution Applied 100
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) T. D. L. L. Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature T. D. L. L. Date 1-10-2007

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

COLUMBIA COUNTY FLORIDA

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 24-3S-16-02273-021

Building permit No. 000025251

Use Classification SFD, UTILITY

Fire: 77.00

Permit Holder SETH HEITZMAN

Waste: 201.00

Owner of Building SETH HEITZMAN

Total: 278.00

Location: 536 NW SPRING HOLLOW BLVD, LAKE CITY, FL



Date: 10/26/2007

Wayne A. Hall

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

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: ISWU487-Z0201152202

Truss Fabricator: Anderson Truss Company
Job Identification: 5-422-SETH HEITZMAN-#30 SPRING HOLLOW
Truss Count: 56
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.22, 7.24.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
the seal date per section 61G15-31.003(5a) of the FAC
Address:
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: CNBRGBLK-BRCLBSUB-A11015EE-GBLLETIN-

Seal Date: 05/01/2006

-Truss Design Engineer-

Arthur R. Fisher

Florida License Number: 59687

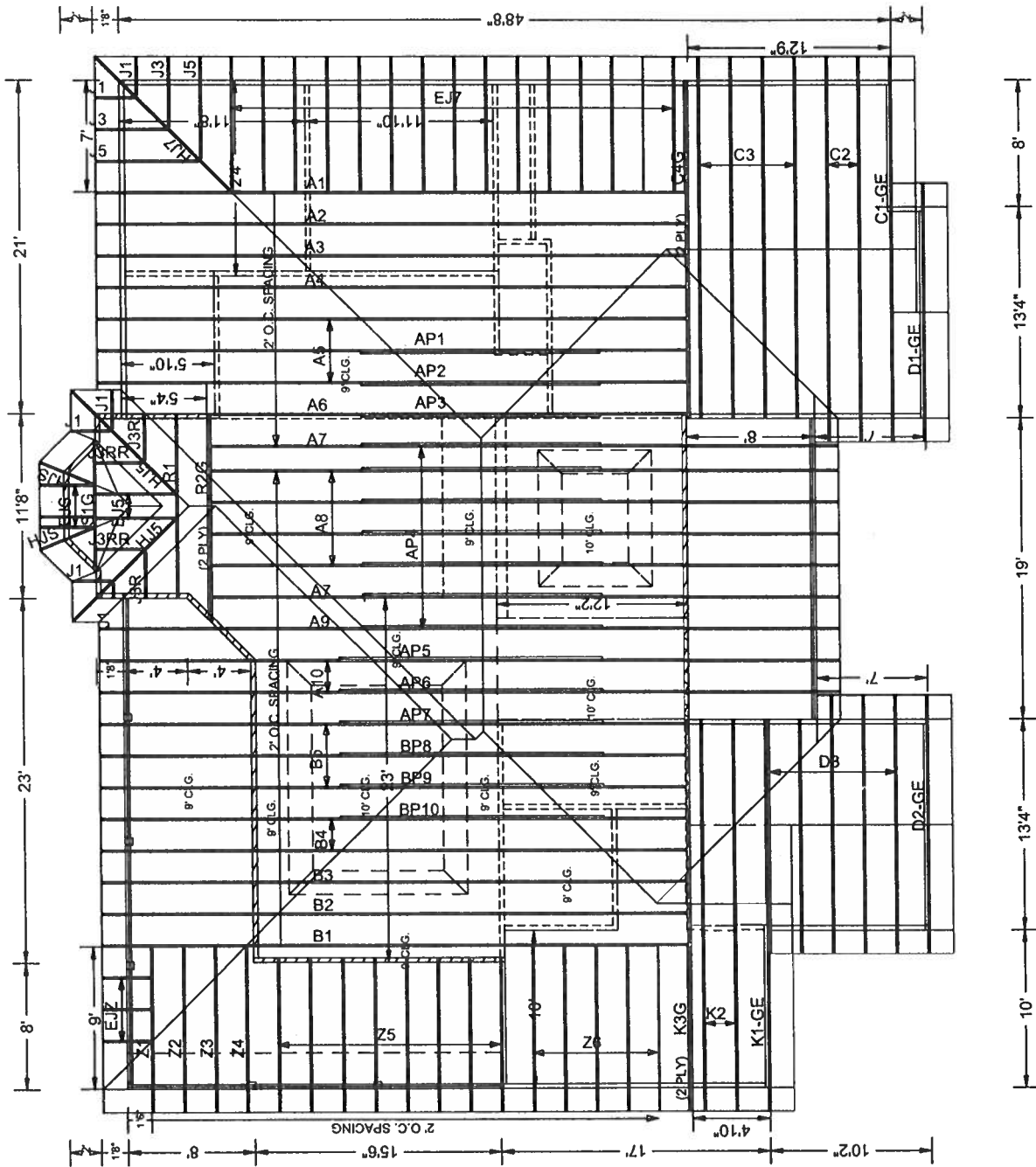
1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	50306--A1		06121078	05/01/06
2	50307--A2		06121079	05/01/06
3	50308--A3		06121080	05/01/06
4	50309--A4		06121081	05/01/06
5	50310--A5		06121088	05/01/06
6	50311--A6		06121091	05/01/06
7	50312--A7		06121102	05/01/06
8	50313--A8		06121103	05/01/06
9	50314--A9		06121059	05/01/06
10	50315--A10		06121076	05/01/06
11	50316--B1		06121069	05/01/06
12	50317--B2		06121070	05/01/06
13	50318--B3		06121071	05/01/06
14	50319--B4		06121072	05/01/06
15	50320--B5		06121074	05/01/06
16	50321--C1-GE		06121110	05/01/06
17	50322--C2		06121075	05/01/06
18	50323--C3		06121057	05/01/06
19	50324--C4G		06121108	05/01/06
20	50325--D1-GE		06121056	05/01/06
21	50326--D2-GE		06121094	05/01/06
22	50327--D3		06121105	05/01/06
23	50328--HJ7		06121096	05/01/06
24	50329--EJ7		06121099	05/01/06
25	50330--J5		06121097	05/01/06
26	50331--J3		06121098	05/01/06
27	50332--J1		06121060	05/01/06
28	50333--HJ5		06121062	05/01/06
29	50334--EJ5		06121067	05/01/06
30	50335--J3R		06121065	05/01/06
31	50336--J3RR		06121064	05/01/06
32	50337--HJS		06121109	05/01/06
33	50338--EJS		06121058	05/01/06
34	50339--EJZ		06121082	05/01/06
35	50340--K1-GE		06121061	05/01/06
36	50341--K2		06121063	05/01/06

#	Ref	Description	Drawing#	Date
37	50342--K3G		06121111	05/01/06
38	50343--AP1		06121092	05/01/06
39	50344--AP2		06121090	05/01/06
40	50345--AP3		06121089	05/01/06
41	50346--AP4		06121101	05/01/06
42	50347--AP5		06121077	05/01/06
43	50348--AP6		06121104	05/01/06
44	50349--AP7		06121106	05/01/06
45	50350--BP8		06121107	05/01/06
46	50351--BP9		06121073	05/01/06
47	50352--BP10		06121100	05/01/06
48	50353--R1		06121068	05/01/06
49	50354--R2G		06121083	05/01/06
50	50355--S1G		06121066	05/01/06
51	50356--Z1		06121084	05/01/06
52	50357--Z2		06121086	05/01/06
53	50358--Z3		06121087	05/01/06
54	50359--Z4		06121085	05/01/06
55	50360--Z5		06121095	05/01/06
56	50361--Z6		06121093	05/01/06





961-9262
867-1295 cell

#5-422 SETH HEITZMAN - LOT#30 SPRING HOLLOW 3/23/06

Scale: 3/32" = 1'

Bearing blocks: Nail type: 12d Common (0.148"x3.25", 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.

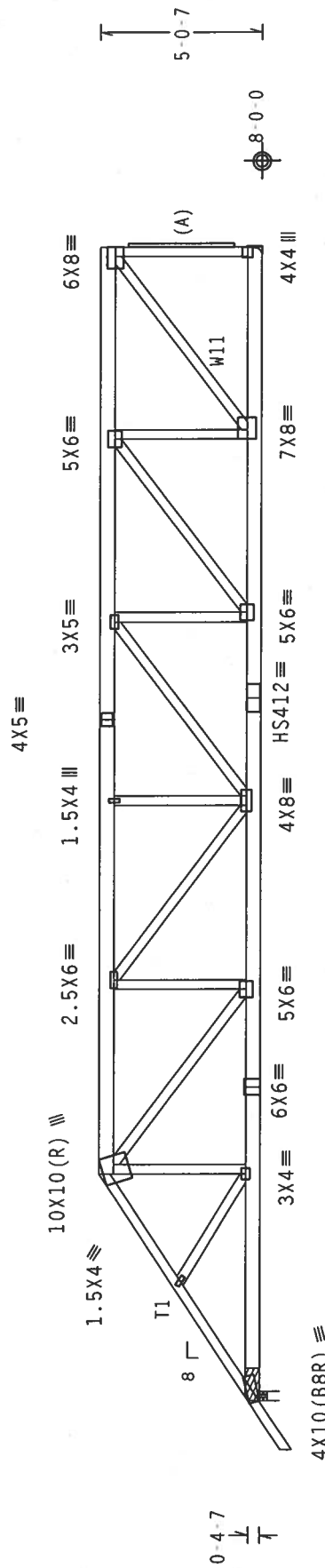
Right end vertical not exposed to wind pressure.

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

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

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.



1-6-0

28-8-0

-35-8-0 Over 2 Supports

R-3101 II-246 W-3.5"

R=3187 U=231 H=Simpson HUS26
w/ (6) 16d, 0.162"x2.5" nai
w/ (14) 16d, 0.162"x2.5" nai
Girder is (2)2X6 min. So.Pin

PLT TYP. 20 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC

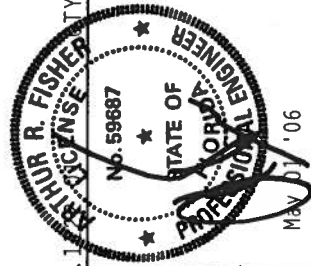
 $Cq/RT=1.00(1.25)/10(0)$ 7.22.1

Scale = 1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.

REFERENCE TO THE FOLLOWING INFORMATION, PUBLISHED BY THE CRUSS-PLATE ENTERPRISE INC., 583
WATERLOO RD., SUITE 200, MADISON, WI 53719, IS INCORPORATED HEREIN BY THIS SPECIFICATION.
MADISON, WI 53719 FOR SOLE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED,
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED
TIGID CEILING.

***IMPORTANT**TURNKEY, A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TP1. ALPINE ENGINEERS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE TRUSS DESIGN SHALL BE BASED ON THE TRUSS PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, SPEC. PERMANENT 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002, SECTION 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT OF THE BUILDING. THE DESIGNER SHALL BE RESPONSIBLE FOR THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. THIS SEAL DOES NOT COVER THE DESIGN OF THE BUILDING OR THE BUILDING DESIGNER'S RESPONSIBILITY.



TC LL	20.0 PSF	REF	R487-- 50306
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121078
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73400
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

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

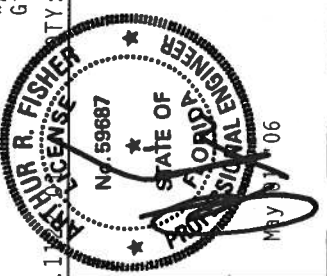
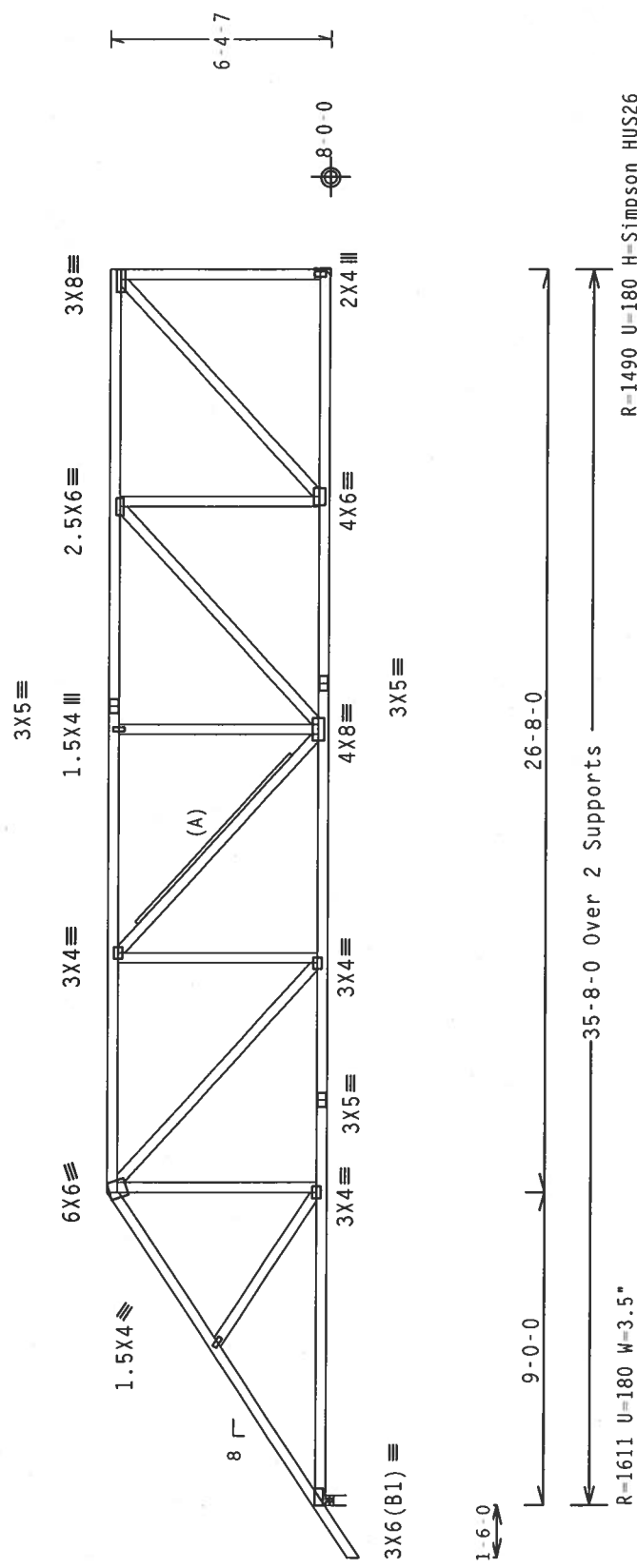
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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.

Right end vertical not exposed to wind pressure.

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

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=1.00(1.25)/10(0)		7.22.11		TY:1 FL/-4/-/R/-		Scale = .1875"/Ft.	
R-1490 U=180 H-Simpson HUS26		w/ (4) 10d Common, 0.148"x3.0" nails in Truss		w/ (14) 10d Common, 0.148"x3.0" nails in Girder		Girder is (2)2X6 min. So.Pine		REF R487-- 50307		DATE 05/01/06	
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"		JREF-		1SWJ487 Z02		DRW HCUSR487 06121079		HC-ENG JB/AF	
								SEON-		73412	

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC61 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: 1. PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AEPAS) AND TPI: 2. ALPINE CONNECTOR PLATES ARE MADE OF 20/18 ALUMINUM. 3. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1601, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

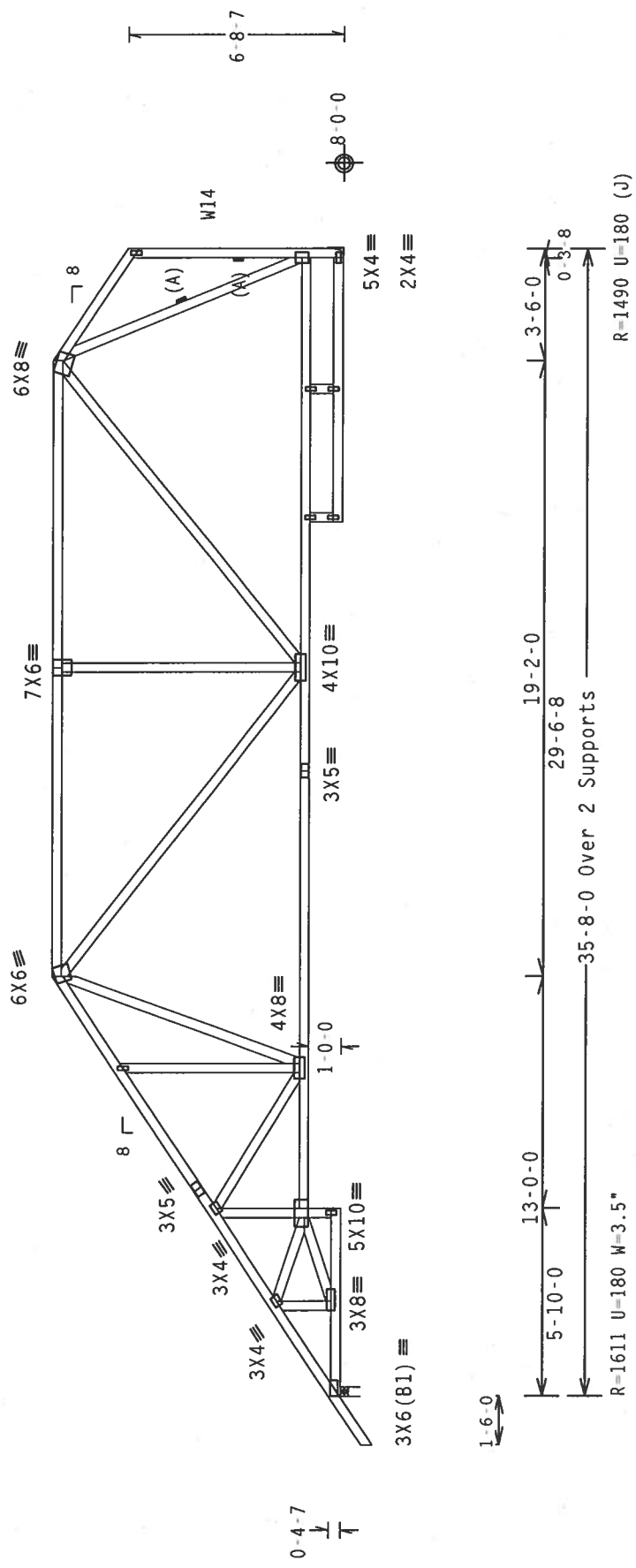
(5-422-SETH HEITZMAN #30 SPRING HOLLOW - A4)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 : W14 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.

(J) hanger connection not found in inventory file for this condition. Provide connection.
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.

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.



Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

	PLT TYP. Wave	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"
	JREF	1SWU487 702

****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'ONOFIO 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 (4-H/5/4) ASTM A653 GRADE 40/60 (M. 47H/5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (L) SHALL BE PER A3 OF TPI 2002 SPEC. FOR TRUSSES. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

(5-422-SETH HEITZMAN #30 SPRING HOLLOW - A6)

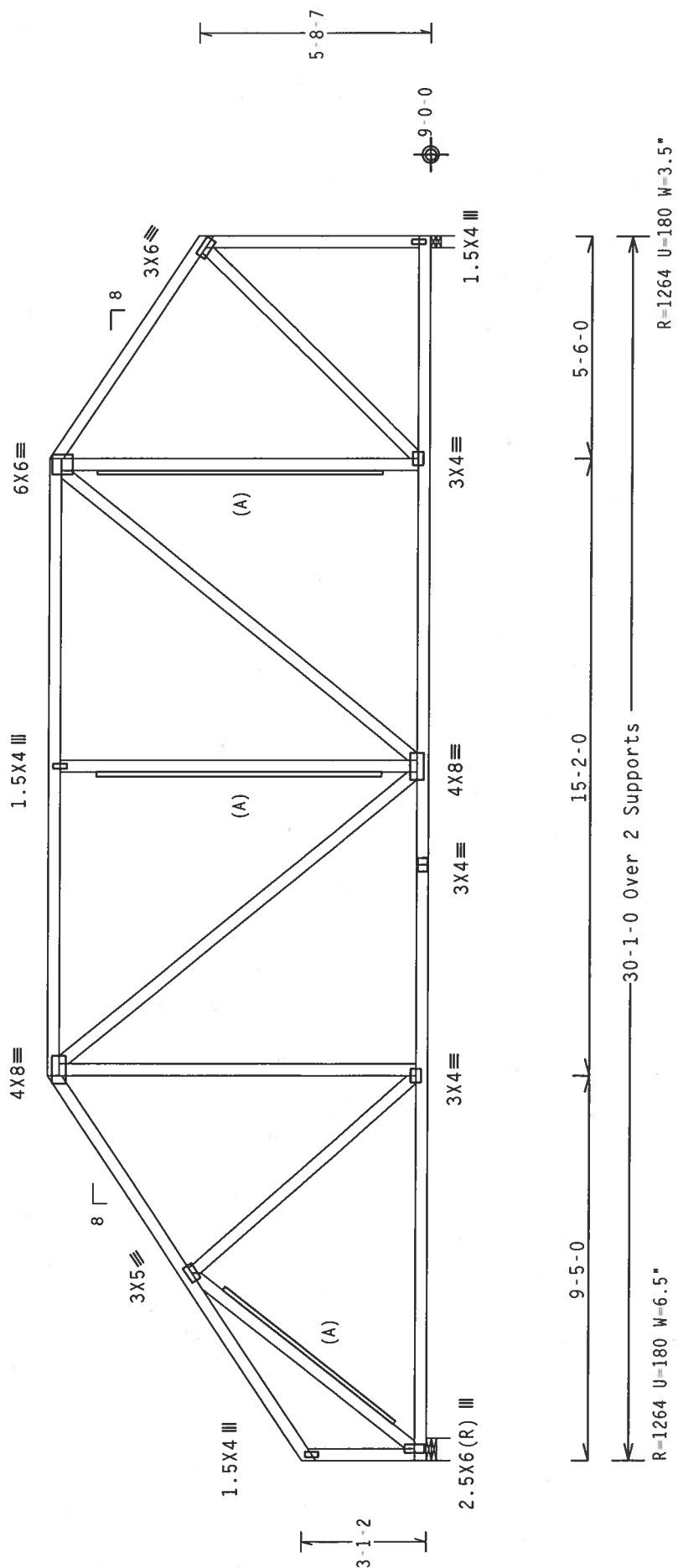
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.23 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

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

Deflection meets L/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=1.00(1.25)/10(0) 7.22.11

Scale = .25" / Ft.

REF	R487--	50311
DATE	05/01/06	
DRW	HCUSR487	06121091
HC-ENG	JB/AF	
SEON-	73524	
DUR.FAC.	1.25	
SPACING	24.0"	

JREF- 1SWU487 Z02

ALPINE

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

Professional Engineer
No. 59087
STATE OF FLORIDA
May 01 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC61 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 1903 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 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 DRAWING 160A-2. ALPINE PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT 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.

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - A7)

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

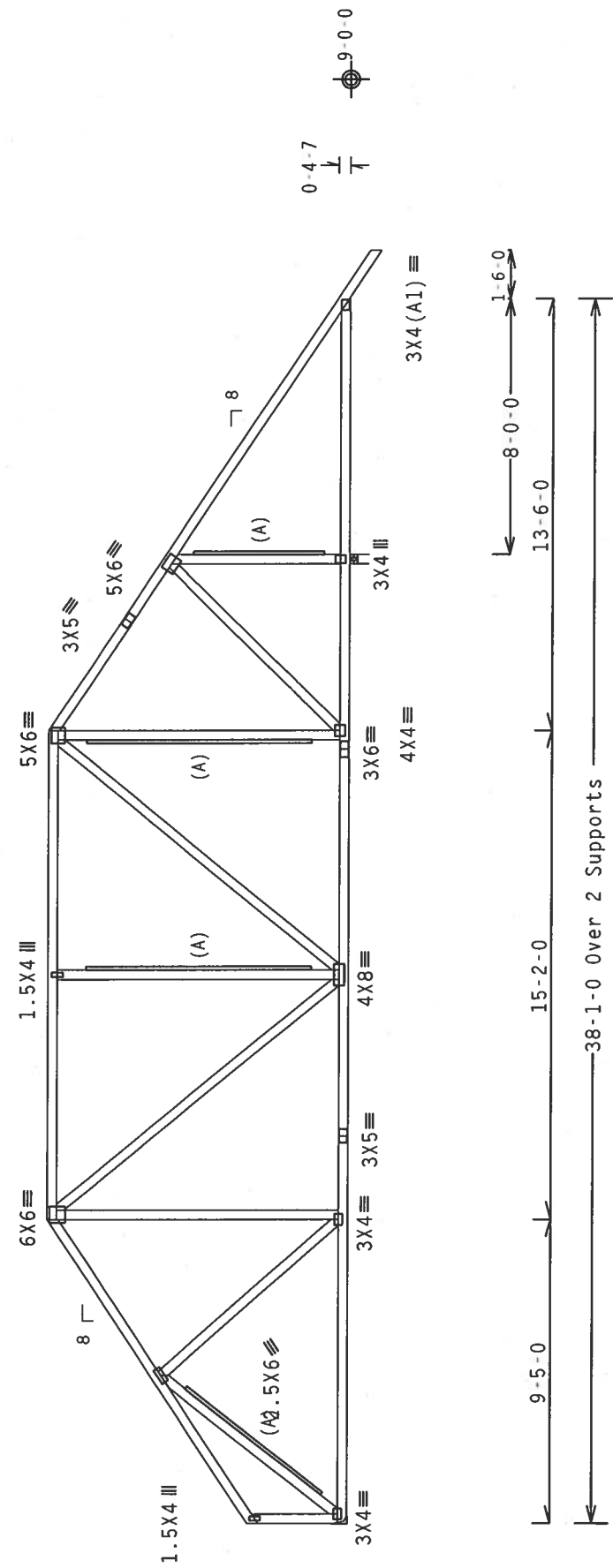
Left end vertical not exposed to wind pressure.

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

Deflection meets L/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.

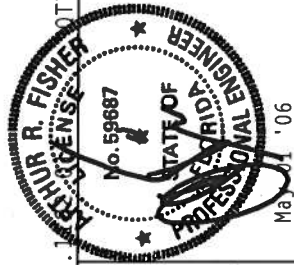
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.



R-1136 U-180 H-Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2x6 min. So.P Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.22.1
R-2160 U-180 W-3.5"

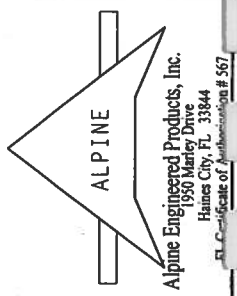
38-1-0 Over 2 Supports

PLT TYP. Wave	Scale = .1875"/Ft.	REF R487-- 50312
	TC LL 20.0 PSF	DATE 05/01/06
	TC DL 10.0 PSF	DRW HCUSR487 06121102
	BC DL 10.0 PSF	HC-ENG JB/AF
	BC LL 0.0 PSF	SEQN- 73547
	TOT.LD. 40.0 PSF	JREF- 1SWU487 202
	DUR.FAC. 1.25	
	SPACING 24.0"	



****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, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 2018/1604 (4-H/57K) ASTM A653 GRADE 40/60 (N. 2/8.5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES AND BOLTS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS OR 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.



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

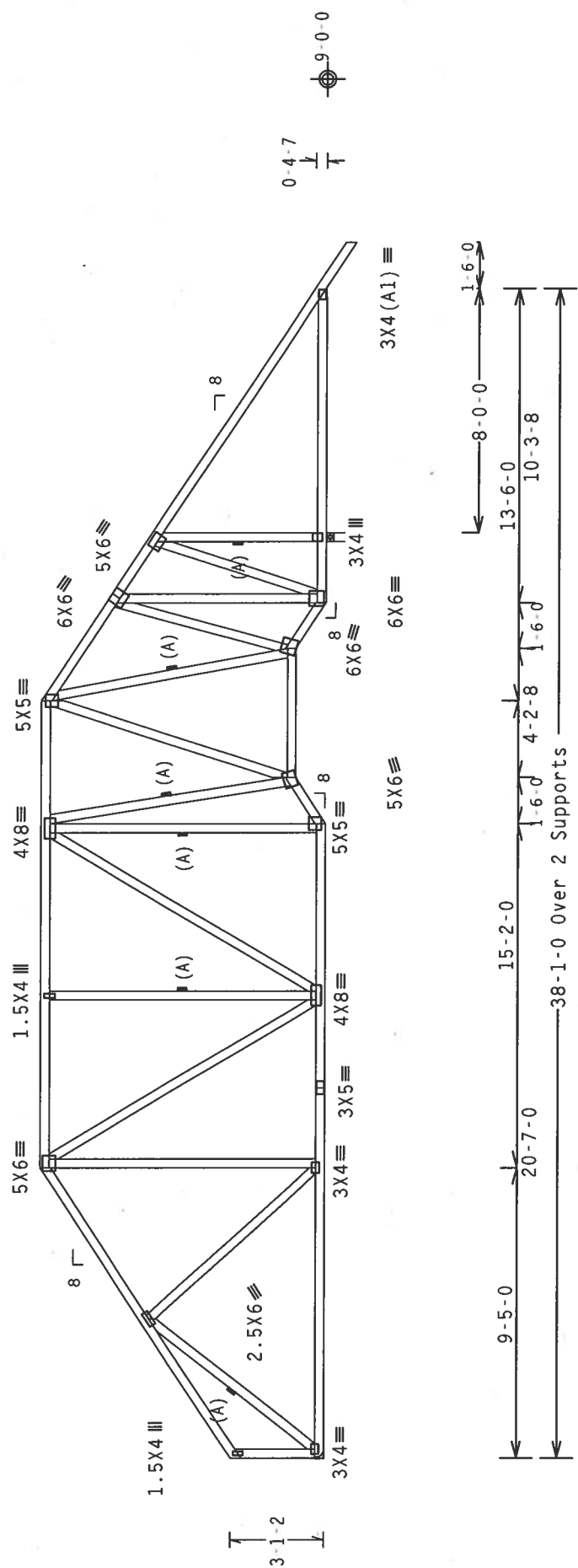
Left end vertical not exposed to wind pressure.

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

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.



R-1136 U=180 H-Simpson LUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pi Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	Cq/RT=1.00(1.25)/10(0)	7.22	FL/-4/-/-R/-	Scale = .1875"/Ft.
ALPINE Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 Certificate of Approval # 567	ALPINE Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 Certificate of Approval # 567	ALPINE Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 Certificate of Approval # 567	ALPINE Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 Certificate of Approval # 567	ALPINE Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 Certificate of Approval # 567
TC LL	20.0 PSF	REF	R487 --	50313
TC DL	10.0 PSF	DATE	05/01/06	
BC DL	10.0 PSF	DRW	HCUSR487	06121103
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	73565	
DUR.FAC.	1.25	JREF-	1SWU487	Z02
SPACING	24.0"			

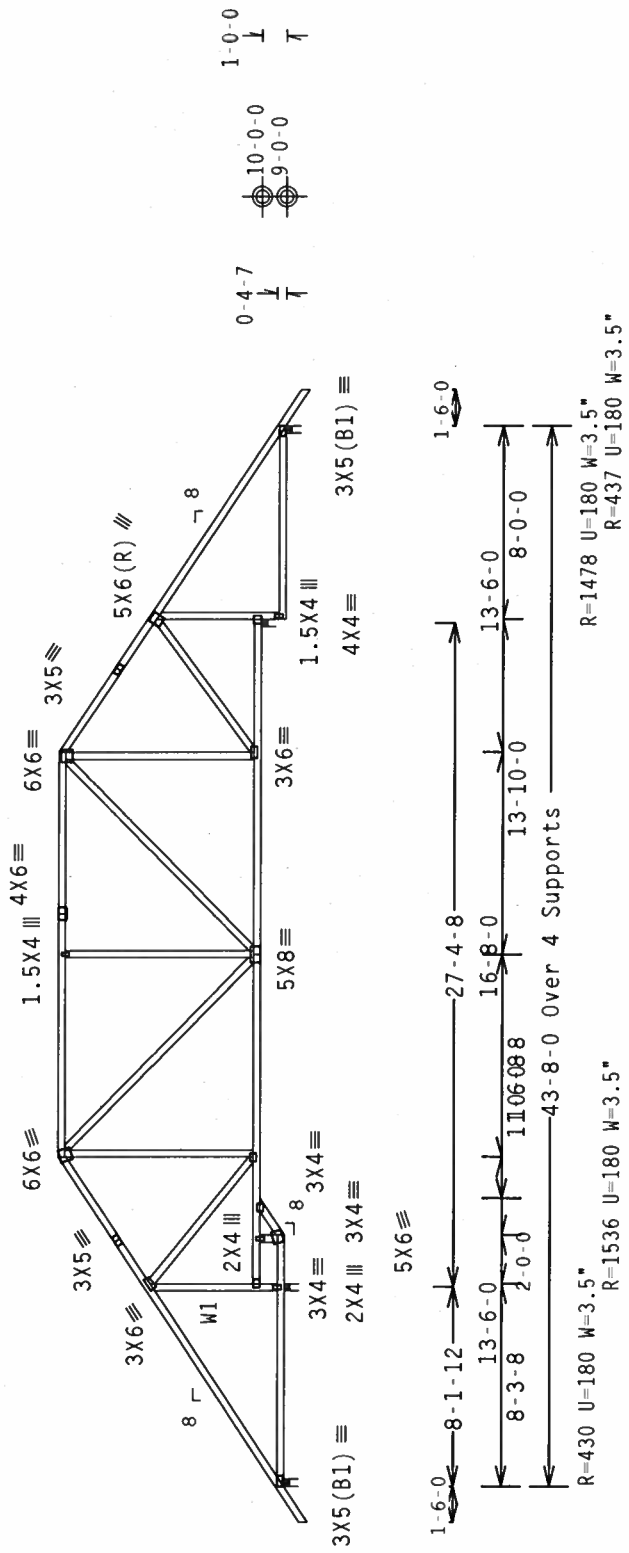
(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - A10)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1 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 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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.



PLT TYP. Wave

Scale = .125" / Ft.

TC LL	20.0 PSF	REF	R487 -- 50315
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121076
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	23338 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 702

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.

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

Scale = .125" / Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 2010/160A (M-N/S/K) ASH A663 GRADE 40760 (M, K/N-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES AND JOINTS AND BY THE DESIGNER. 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 2010/160A (M-N/S/K) ASH A663 GRADE 40760 (M, K/N-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES AND JOINTS AND BY THE DESIGNER. 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 2010/160A (M-N/S/K) ASH A663 GRADE 40760 (M, K/N-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES AND JOINTS AND BY 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.

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - B1)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B1 2x6 SP #1 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.

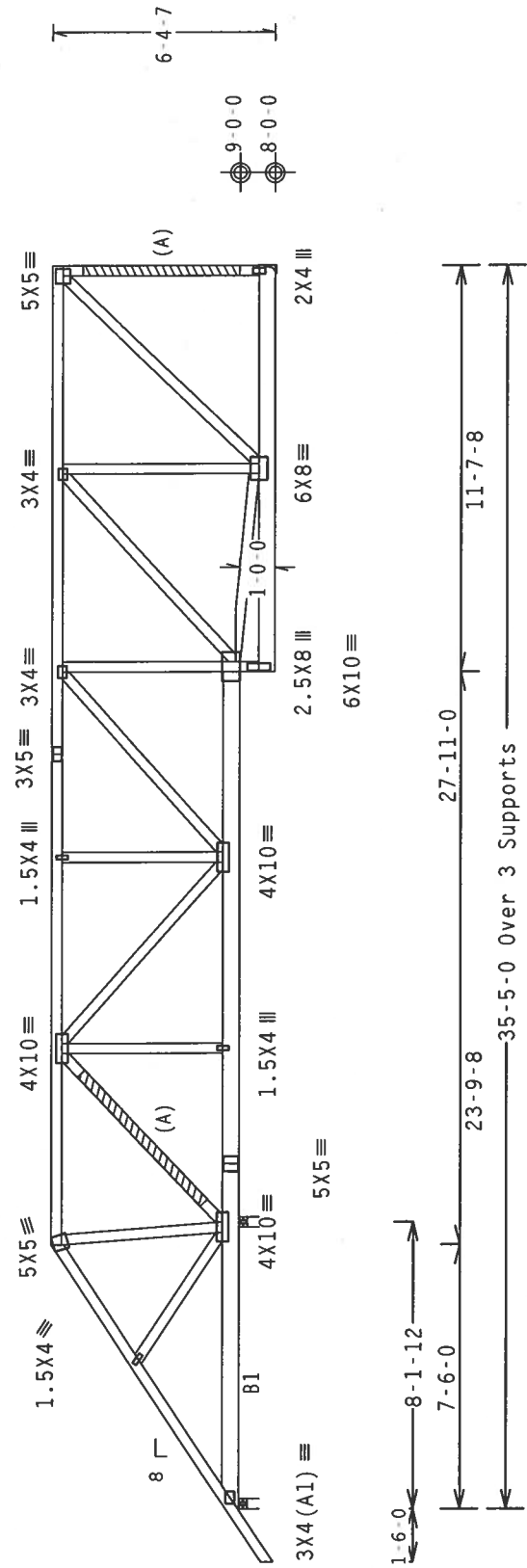
(A) SP #3 or better scab brace. Same size & 80% length of web member.
Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

SPECIAL LOADS

----- (LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)
TC - From 64 PLF at 1.50 to 64 PLF at 35.42
BC - From 5 PLF at 1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 23.79
BC - From 20 PLF at 23.79 to 20 PLF at 35.42
BC - 345 LB Conc. Load at 1.56
BC - 366 LB Conc. Load at 3.56, 5.56
BC - 362 LB Conc. Load at 7.56
BC - 253 LB Conc. Load at 25.56, 27.56, 29.56, 31.56, 33.56

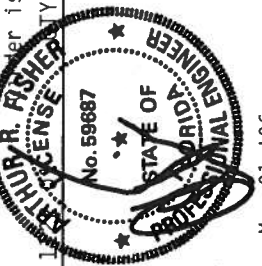
Right end vertical not exposed to wind pressure.

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



R-1944 U-234 H-Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Per is (1) 2x6 min. So.Pine

Scale = .1875" / Ft.



May 01 '06

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

PLT TYP. Wave

****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), 503 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 20/18/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (M, V-N-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DRAMATICALLY PLACED PANELS SHALL BE ACCEPTED FOR THE DESIGN. A SEAL ON THIS DESIGN SHOWS 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
Certificate of Authenticity # 567

TC LL	20.0 PSF	REF	R487--	50316
TC DL	10.0 PSF	DATE	05/01/06	
BC-DL	10.0 PSF	DRW	HCUSR487	06121069
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	73624	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SWU487	Z02

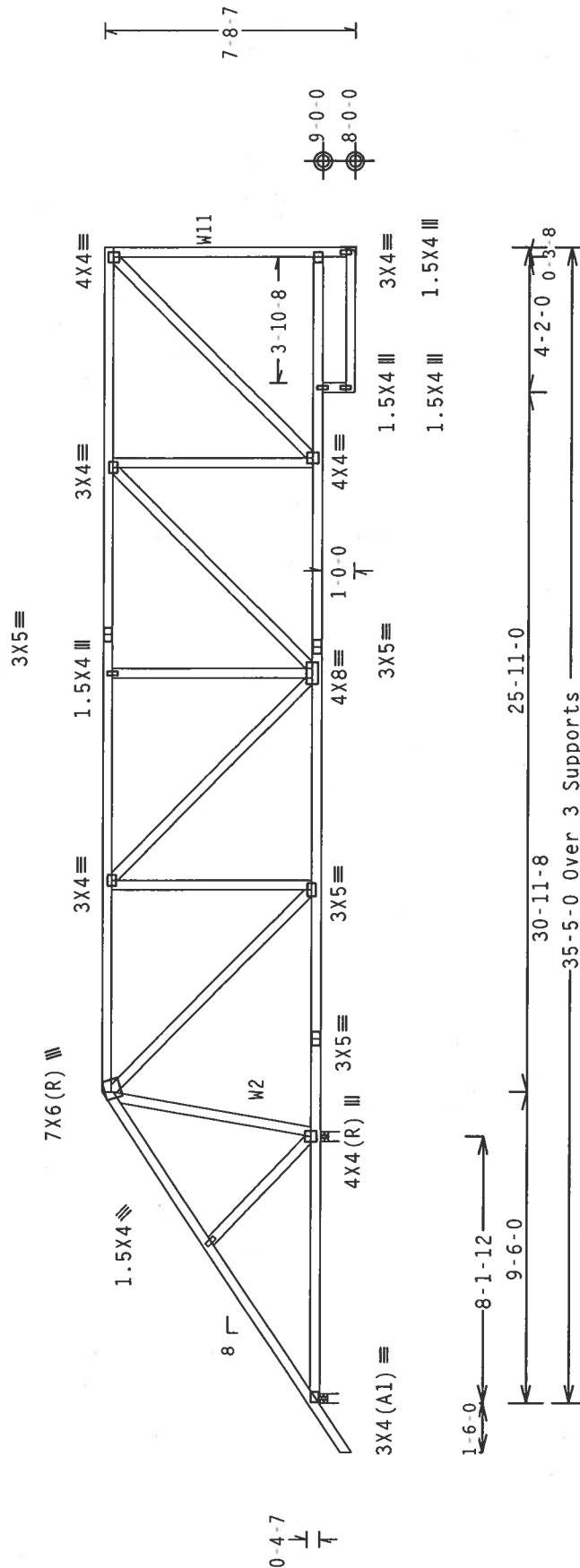
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense

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

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

Right end vertical not exposed to wind pressure.

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



R-1073 U-180 H-Simpson LUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is 112X6 min. So Pine

Scale = .1875"/Ft.

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

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U.S. DEPARTMENT OF JUSTICE

0(1.25)/10(0) 7.2

$$Cq/RT =$$

PLT TYP. Wave

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 TRUSS PAIL INSTITUTE, 5901 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE IN DR., SUITE 200, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD SHELLING.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/M/S/K) ASTM A563 GRADE 40/60 (X/M/S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND (UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2). ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY TPI APPLICATION IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TC LL	20.0	PSF	REF	R487 --	50317
TC DL	10.0	PSF	DATE	05/01/06	
BC DL	10.0	PSF	DRW	HCUSR487	06121070
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	73633	
DUR.FAC.	1.25				
SPACING	24.0"				

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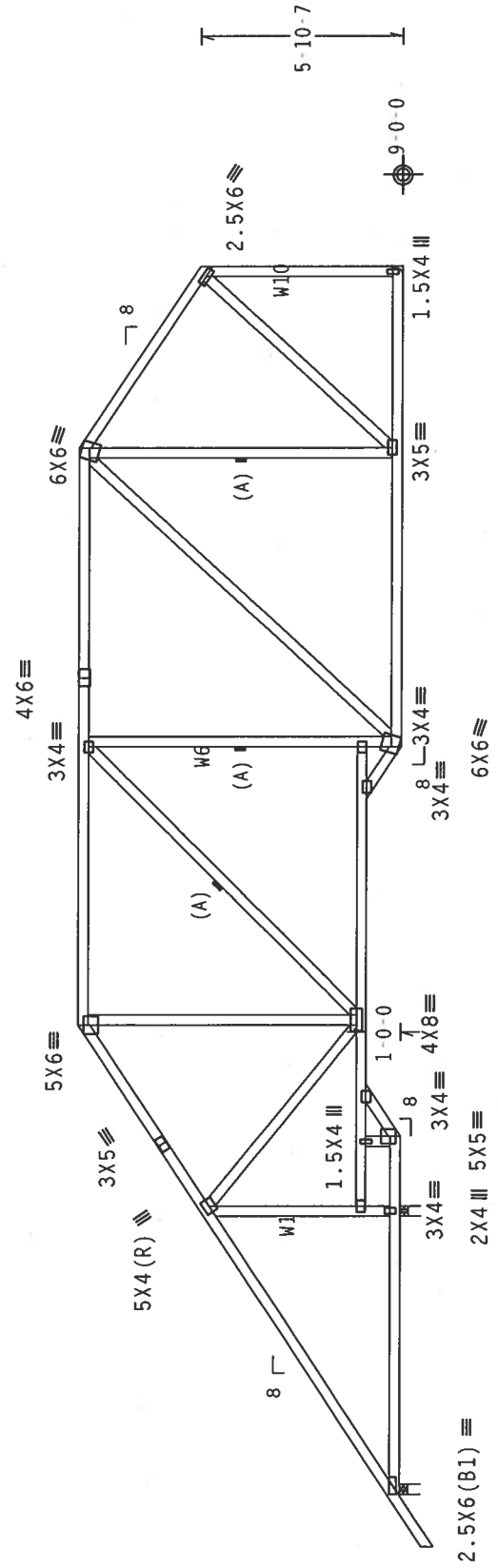
(5-422-SETH HEITZMAN #30 SPRING HOLLOW - B5)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1, W6, W10 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.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.
Right end vertical not exposed to wind pressure.
(A) Continuous lateral bracing equally spaced on member.

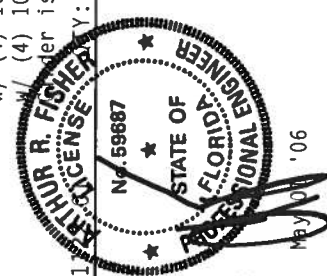
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



1-6-0
8-1-12
13-6-0
8-3-8
2-0-0
16-8-0
13-11-0
5-3-0
5-10-7
9-0-0
R-240 U=180 W=3.5
R-1768 U=180 W=3.5
R=1084 U=180 H=Simpson LUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
w/ (4) 10d Common, 0.148"x3.0" nails in (2)2X6 min. So.Pine

PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)
7.22.1
Scale = .1875"/Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 393 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 AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (N/157K) ASTM A653 GRADE 40/60 (N. K7N-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY THE INSTALLER. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

TC LL	20.0 PSF	REF	R487 --	50320
TC DL	10.0 PSF	DATE	05/01/06	
BC DL	10.0 PSF	DRW	HCUSR487	06121074
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	23385	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SWU487	702

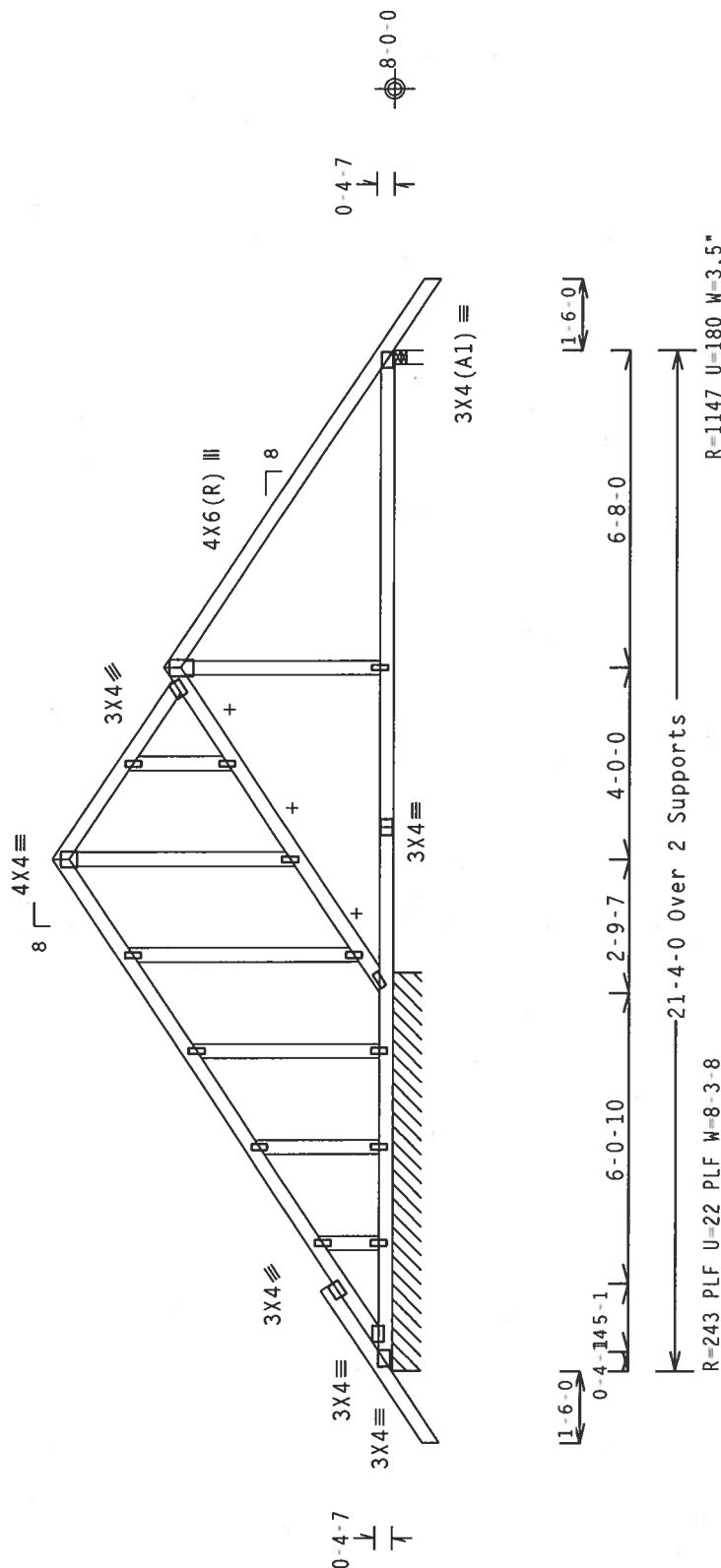
	Top	Bot	chord	2x4	SP	#2	Dense
			chord	2x4	SP	#2	Dense
			webs	2x4	SP	#3	

1110 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.

+ 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. WALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

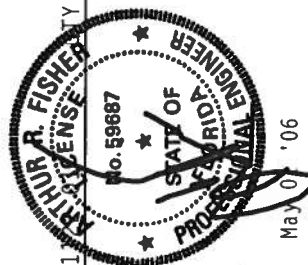
$$Ca/RT = 1.00(1.25)/10(0) \quad 7.22.13$$

FI 1-141-1-1R1-

Scale = 25"/Ft

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-003 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PANEL INSTITUTE, 563 CROFTON RD., WILSONVILLE, OR 97158) FOR MORE DETAILS ON THE PROPER USE OF THESE TRUSSES. CONTACT TPI AT (503) 261-1000 FOR A FREE LITERATURE KIT. IN MADISON, WI 53719, FOR SAFETY SIGHTGLASSES AND PROTECTIVE GLOVES. THESE TRUSSES MUST BE USED WITH THE PROPER ATTACHED CHORDS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS & DESIGNERS, 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 TRUSS COMPANY. ALL TRUSS PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI 2002 SEC. 3. A SEAL ON ANY 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 DESIGNER/OWNER.



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Haines City, FL 33844

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FL Certificate of Authorization # 567

SPACING 24.0"

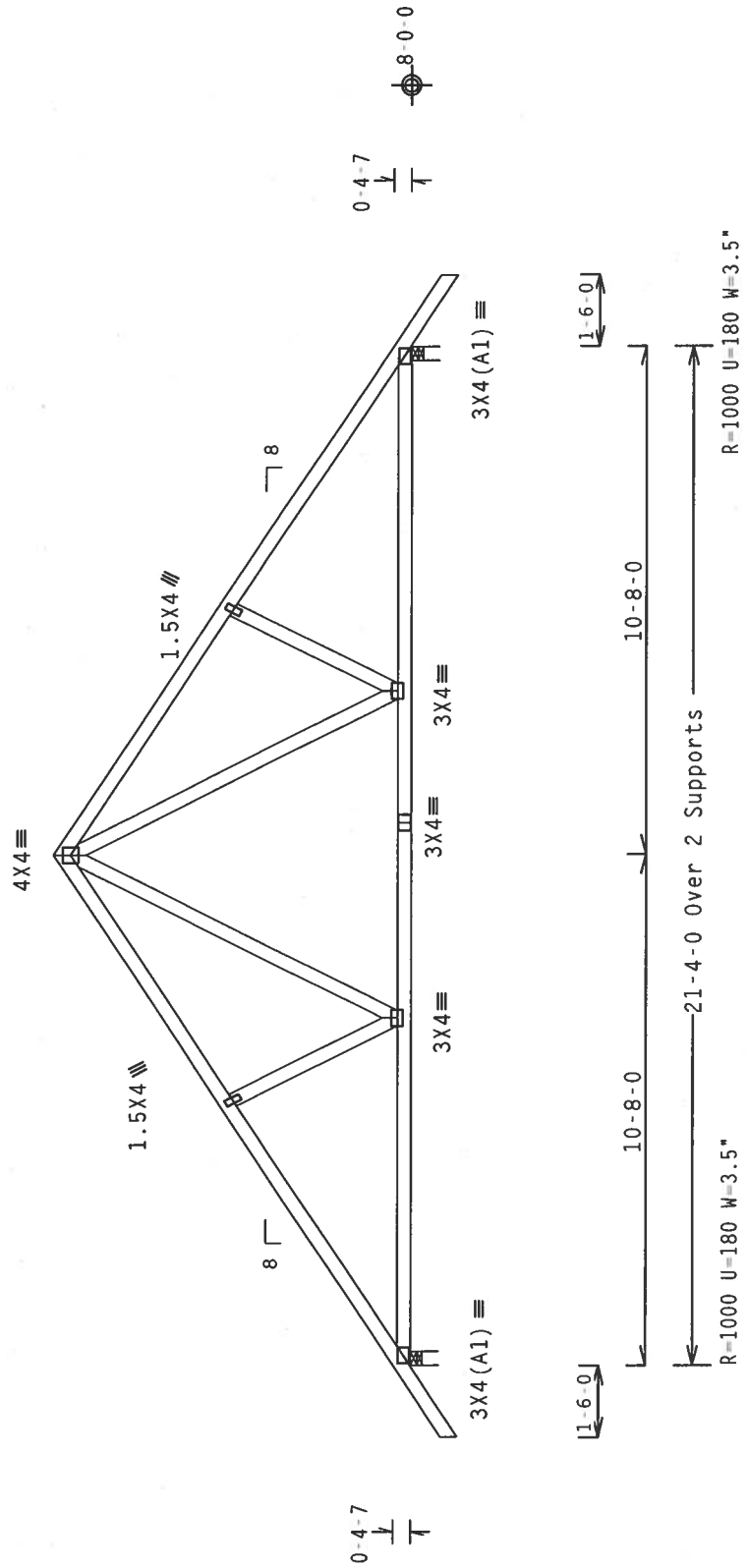
REF- 1SWU487 702

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - C2)

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

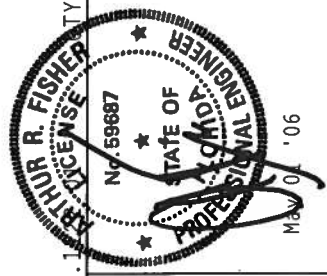
110 mph wind, 15.00 ft mean htg, ASCE 7-02, CLOSED bldg, located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0
psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	TY:2	FL/-/4/-/R/-	Scale = .25" / Ft.
TC LL	20.0 PSF	REF R487 --	50322
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121075
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73280
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 202



****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, 563 D'ORFORD 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 AND 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 (N-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. INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PER AMER AS OF TPI 11-2002 SEC. 3. A SEAL ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

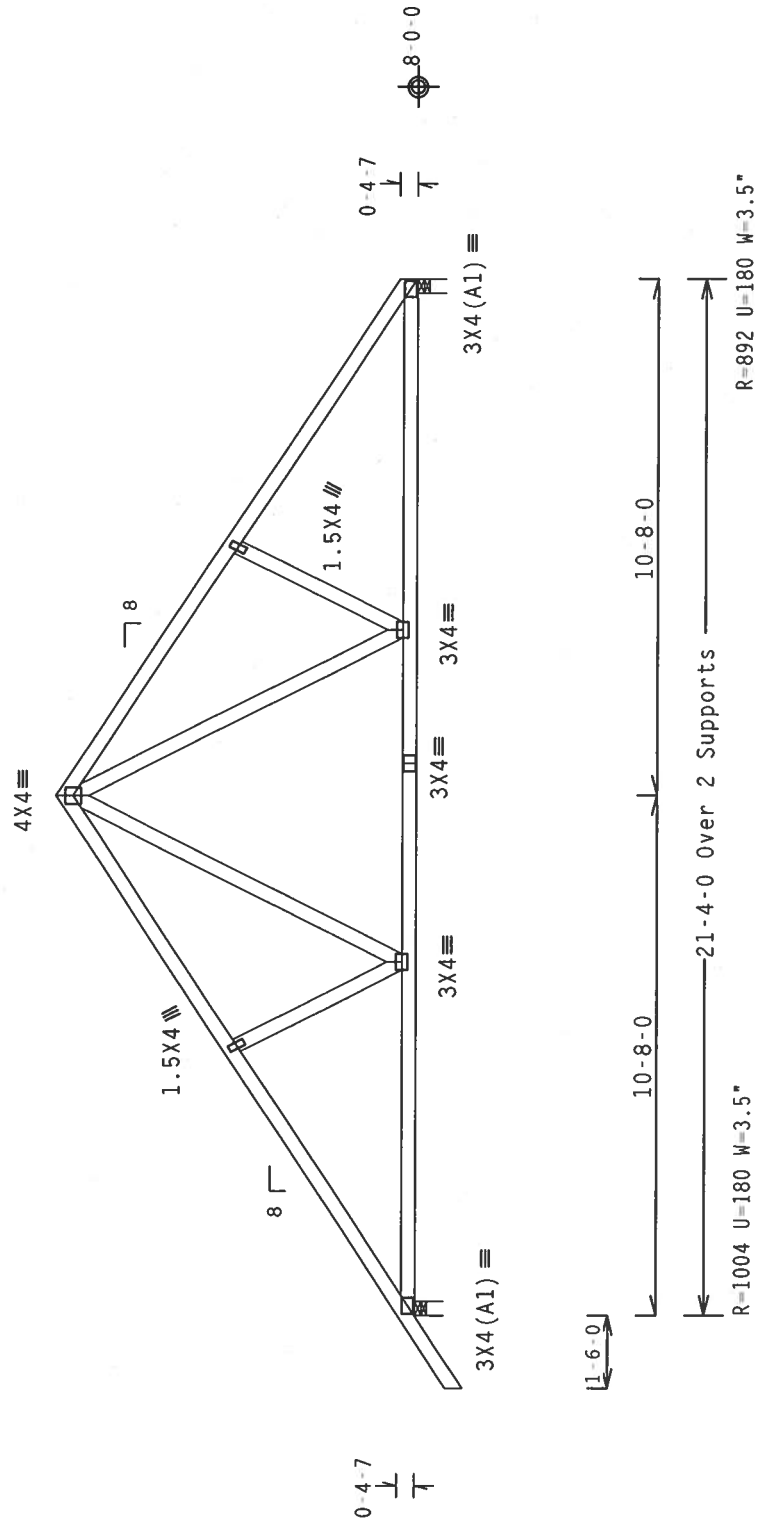
ALPINE
Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

(5-422-SETH HEITZMAN #30 SPRING HOLLOW - C3)

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

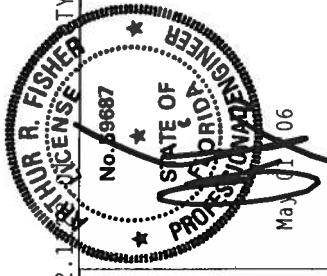
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

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

Scale = .25"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC91 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 193 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 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. ALL TRUSSES SHALL BE PER AMERICAN AS OF 1911-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE DESIGN. THE DESIGNER'S RESPONSIBILITY IS 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.



REF	R487--	50323
DATE	05/01/06	
DRW	HCUSR487	06121057
HC-ENG	JB/AF	*
SEQN	73286	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF	1SWU487	Z02

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

(5-422-SETH HEITZMAN #30 SPRING HOLLOW - C4G)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 21.33
BC - From 20 PLF at 0.00 to 20 PLF at 8.00
BC - From 721 PLF at 8.00 to 721 PLF at 21.33
BC - 3187 LB Conc. Load at 7.00

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) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3".min.)nails @ 6" OC.

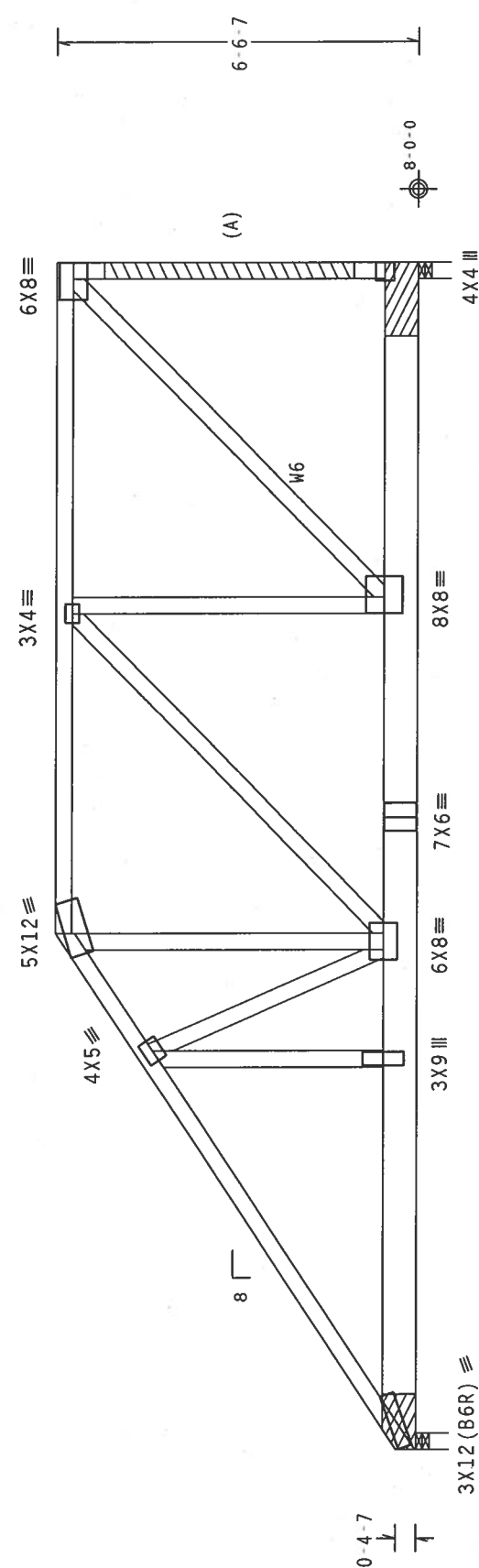
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common, (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" O.C.
Bot Chord: 1 Row @3.75" O.C.
Webs : 1 Row @ 4" O.C.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.)_nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
1 0.000' 1 12" 4 Match Truss
2 21.042' 1 16" 18 Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGK1103 for additional information.

Right end vertical not exposed to wind pressure.

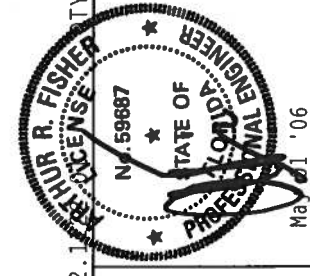
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



9-3-0 12-1-0 21-4-0 Over 2 Supports R=6000 U=641 W=3.5" R=8329 U=890 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

PLT TYP. Wave	TY:1	FL/-/4/-/R/-	Scale = .3125"/Ft.
TC LL	20.0 PSF	REF R487--	50324
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW HCUSR487	06121108
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	40.0 PSF	SEQN-	73507
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02



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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/S/K) ASTM A563 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY MAXIMUM EACH OF TRUSS OR TRUSS MEMBER OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES AND BY THE TRUSS DESIGNER. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS DESIGN. THE DESIGNER SHOWS 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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1950 Marley Drive
Haines City, FL 33844
Certificate of Registration # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

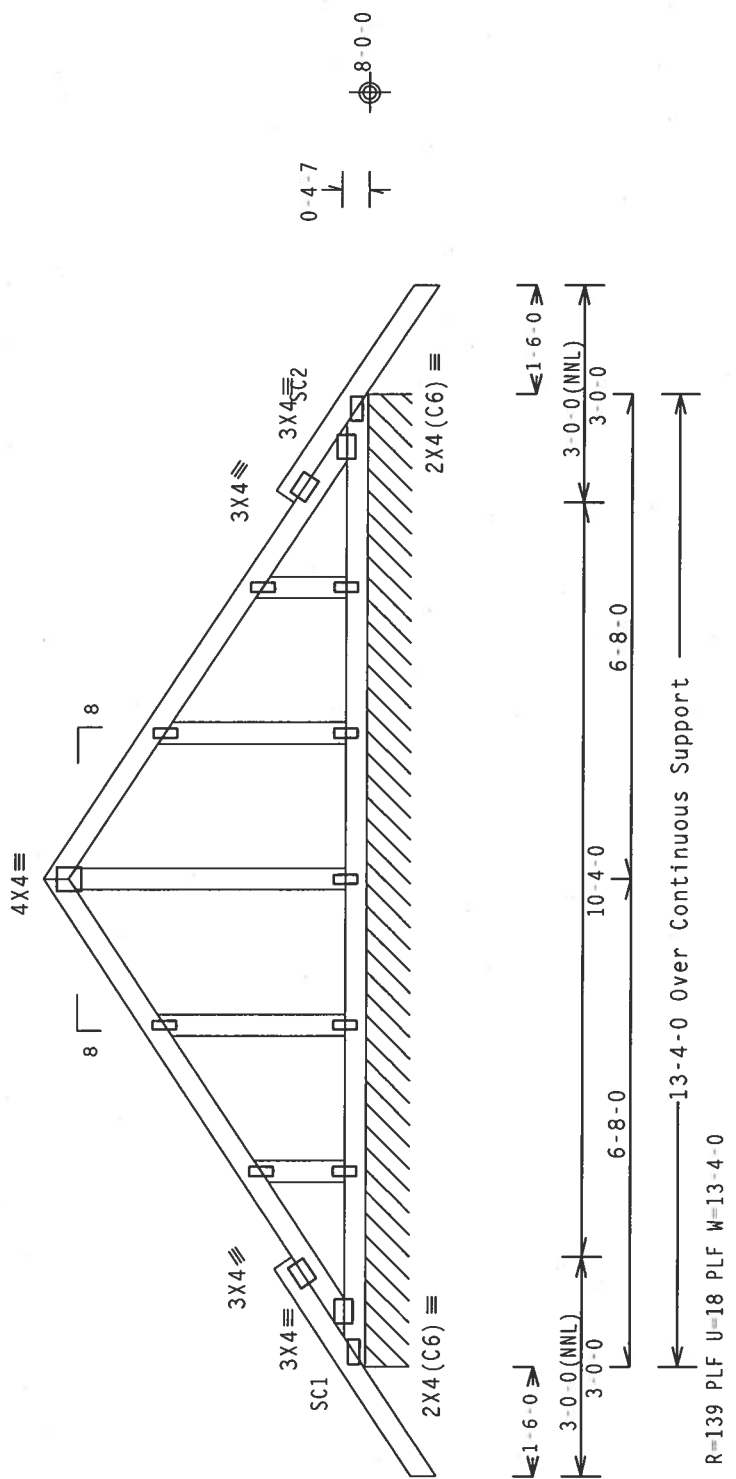
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

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.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Scale = .375"/Ft.

PLT TYP. Wave

FL/-/4/-/1

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 -- 50325

DATE 05/01/06

DRW HCUSR487 06121056

HC-ENG JB/AF

SEON- 73324 REV

JREF- 1SWU487 Z02

ARTHUR R. FISHER

No. 69887

STATE OF FLORIDA

Professional Engineer

Ma 11 06

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, DESIGNER CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. ALPINE TRUSSES ARE DESIGNED TO BE USED IN CONFORMANCE WITH THE NDS AND TPI. UNLESS OTHERWISE INDICATED, APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED, APPLY PLATES TO EACH FACE OF TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.3. ANY FAILURE TO FOLLOW THESE INSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - D2-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

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

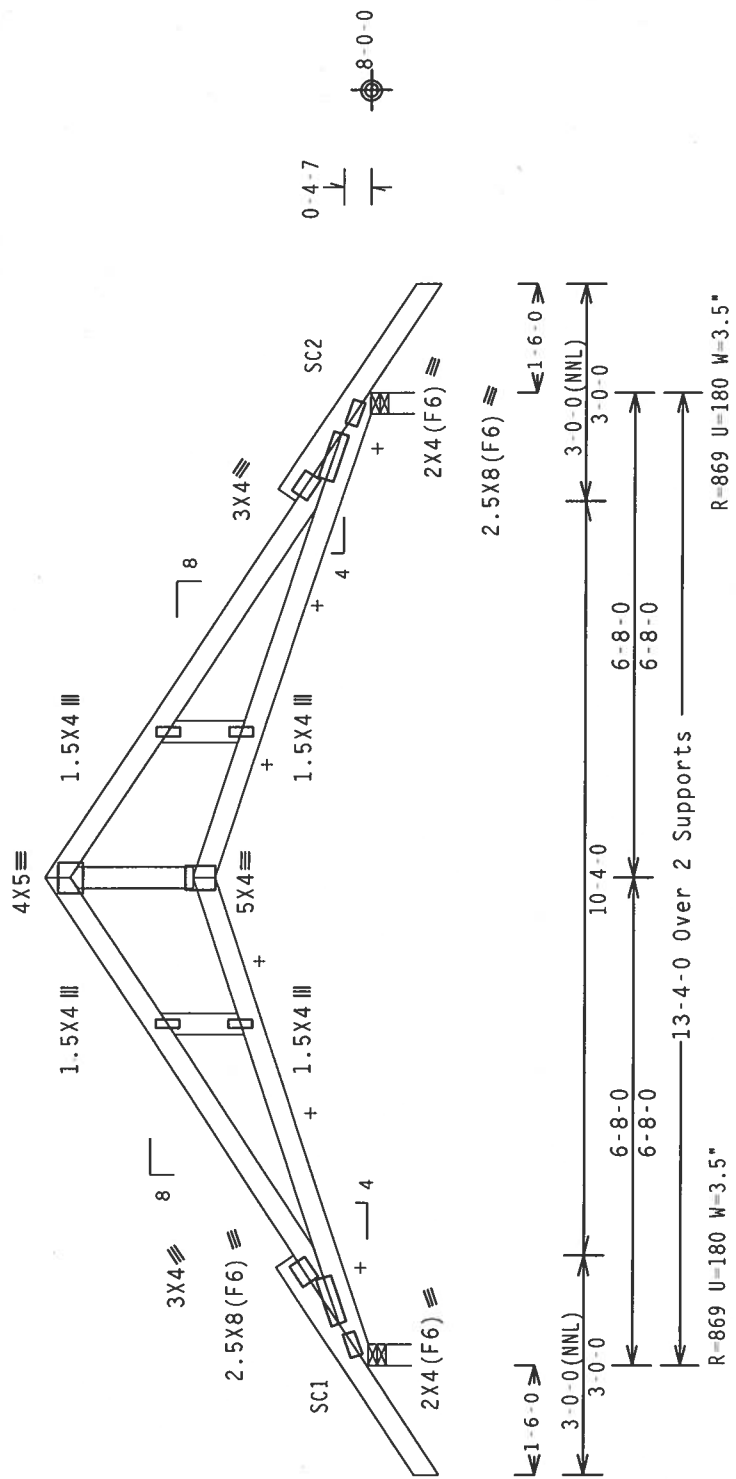
+ MEMBER TO BE Laterally Braced FOR HORIZONTAL WIND LOADS.
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

110 mph wind, 15.00 ft mean ht, 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.

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface. plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

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.



PLT TYP. Wave

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

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.17

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487-- 50326
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121094
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	22144
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

ALPINE R. FISHER
Professional Engineer
No. 59687
STATE OF FLORIDA
May 01 '06

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION) FOR TRUSS FABRICATION AND BRACING. D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND AISC (AISC 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.

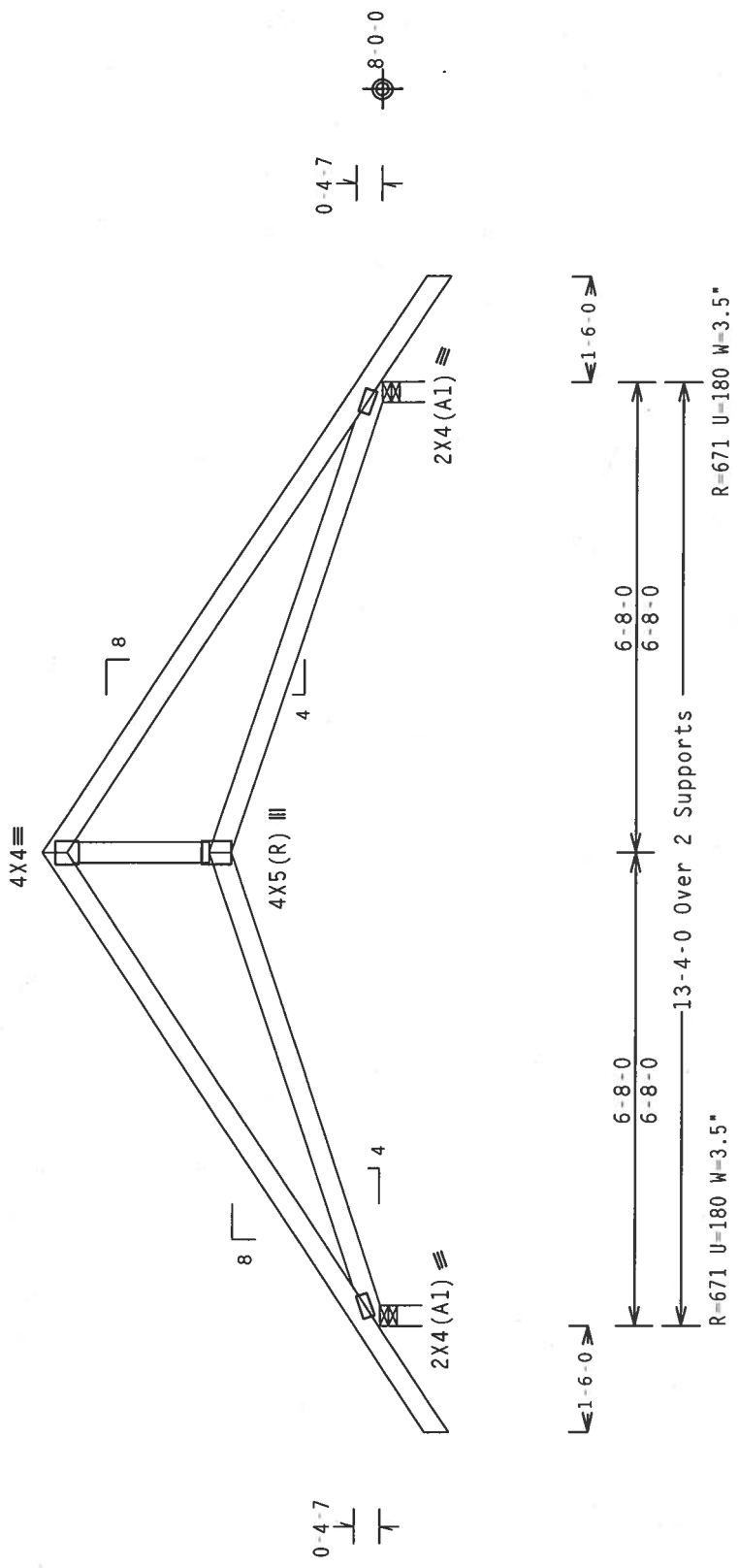
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (N-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. TRUSSES SHALL BE PER AMERICAN AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(5-422-SETH HEITZMAN #30 SPRING HOLLOW - D3)

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.

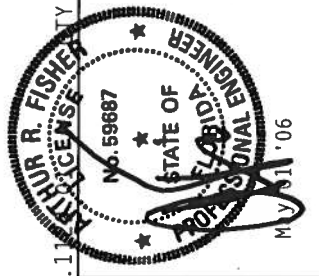
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

Scale = .375" / Ft.

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



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'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/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS DESIGN. A SEAL ON THIS DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - HJ7)

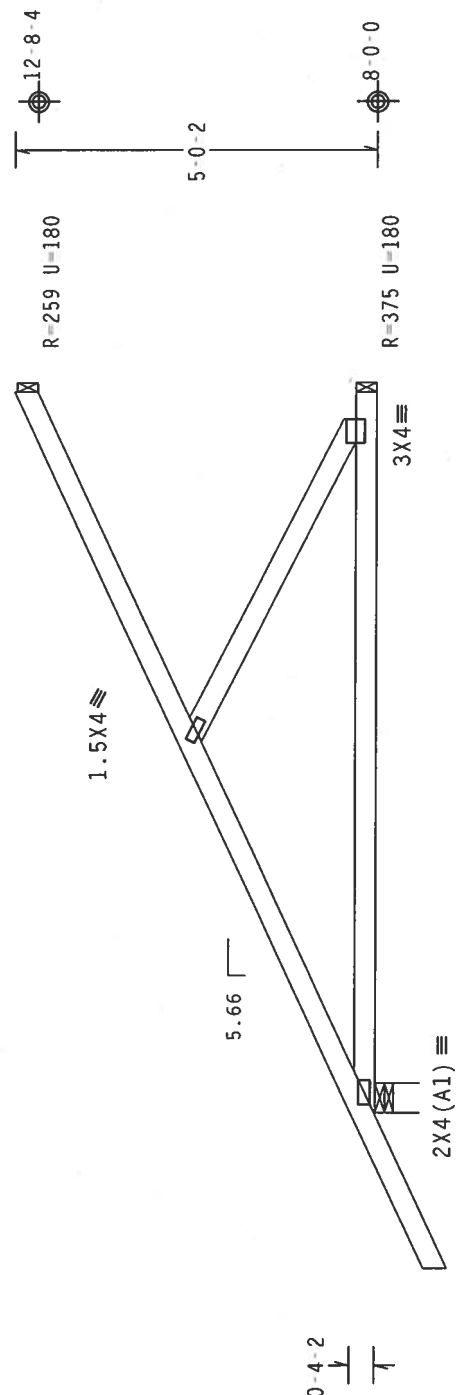
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

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

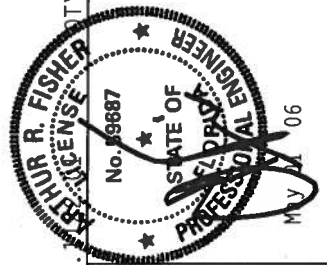
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



2-1-7
9-10-13
9-10-13 Over 3 Supports
R=472 U=180 W=4.95"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22

Scale = .375"/Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 553 O'HORIO DR., SUITE 200, MADISON, WI 53719) AND METC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR 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 2018/160A (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 SHALL BE REQUIRED. THE SUELLER OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUELLER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

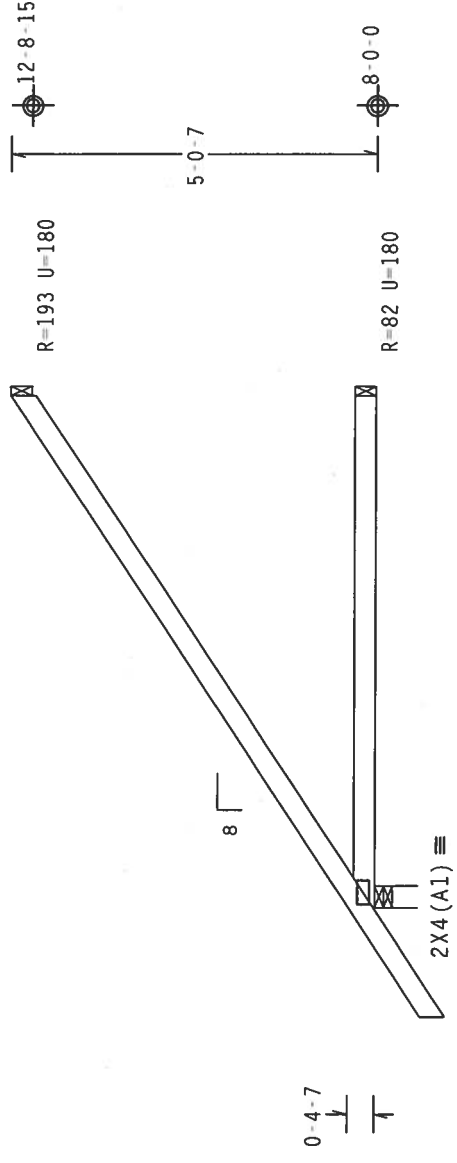
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

TC LL	20.0 PSF	REF	R487 -- 50328
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121096
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73269
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

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.



7-0-0 Over 3 Supports
R=417 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487 -- 50329
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121099
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	73247
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Professional Engineer # 567

ALPINE ENGINEER
STATE OF FLORIDA
No. 59687
EXPIRATION DATE 01/01/06

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 6051 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & 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 16GA-2. SECTION PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 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 DESIGNER SHOWN THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

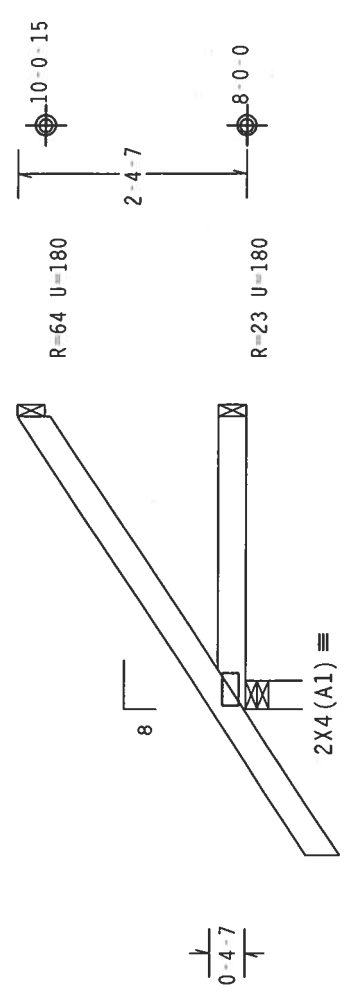
(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - J3)

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.



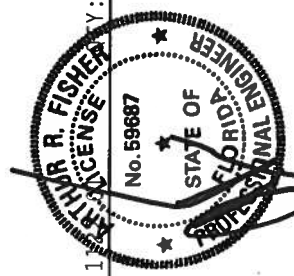
1-6-0

3-0-0 Over 3 Supports
R-268 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

PLT TYP. Wave

Scale = .5" / Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 D'ORFIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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, OR ANY OTHER ACTIONS THAT MAY BE TAKEN BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR ANY OTHER ACTIONS THAT MAY BE TAKEN BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR ANY OTHER ACTIONS THAT MAY BE TAKEN BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TC LL	20.0 PSF	REF	R487 -- 50331
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121098
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73230
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

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

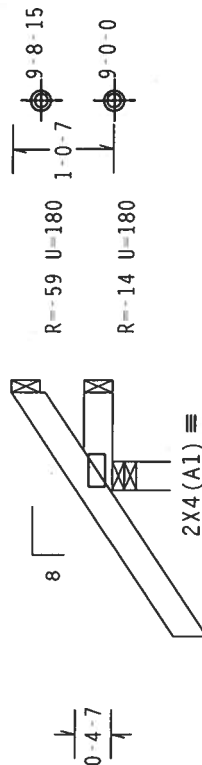
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BCDL=5.0 psf.

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

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



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

R=261 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$ 7.22.1

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

Scale = .5"/Ft.

WARNING— THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE THUSSES INSTITUTE, 363 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND MTCA WOOD TRUSS COUNCIL OF AMERICA, 6500 ELMHURST, IN MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE CHORDS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID JOINTS.

****IMPORTANT:**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING TRUSSES, 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, COMPONENTS COMPLIANT WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND ALPINE COMPANY'S TRUSS MANUFACTURING PRACTICES (T.M.P.) WILL BE AT THE USER'S RISK.

PLATES TO EACH FACE OF THUSSED AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z, AND 160B. ALL DIMENSIONS ARE IN INCHES. SEE T.M.P. FOR MORE DETAILS.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE REMISSIBILITY OF THE BUILDING DESIGNER. REFER TO T.M.P. FOR COMPLETE TERMS AND CONDITIONS.

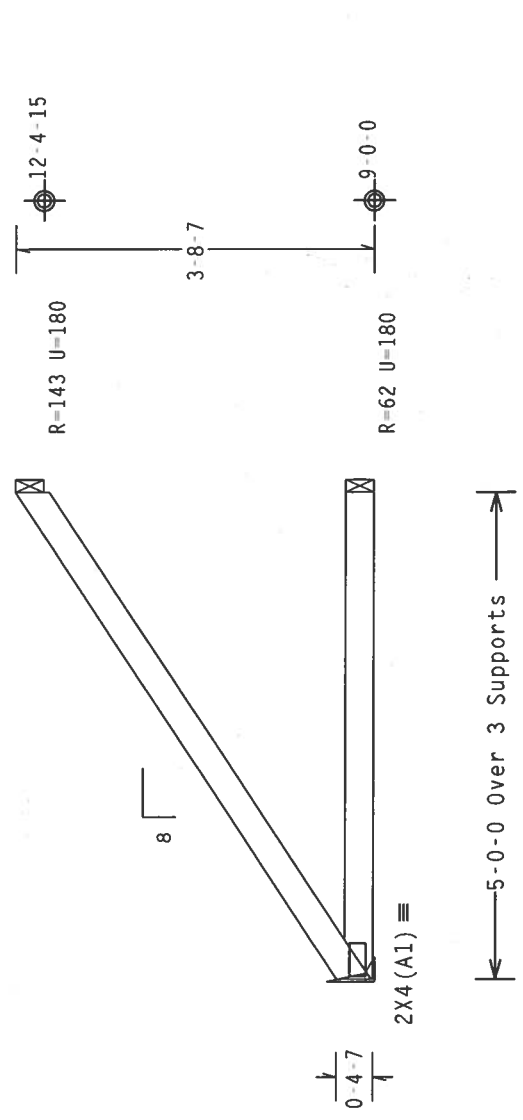


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

James City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
(J) hanger connection not found in inventory file for this condition.
Provide connection.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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



R-215 U-180 H-Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. (H)

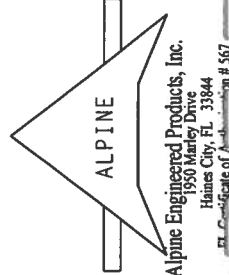
PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

Scale = .5" / Ft.	
REF	R487-- 50334
DATE	05/01/06
DRW	HCUSR487 06121067
HC-ENG	JB/AF
SEQN	73240
DUR.FAC.	1.25
SPACING	24.0"
JREF	1SWU487 Z02



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSS 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719), AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE 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 (W-N/S/K) ASTM A653 GRADE 40/60 (W. K/M.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. (1) SHALL BE PER AF&PA AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTED 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.

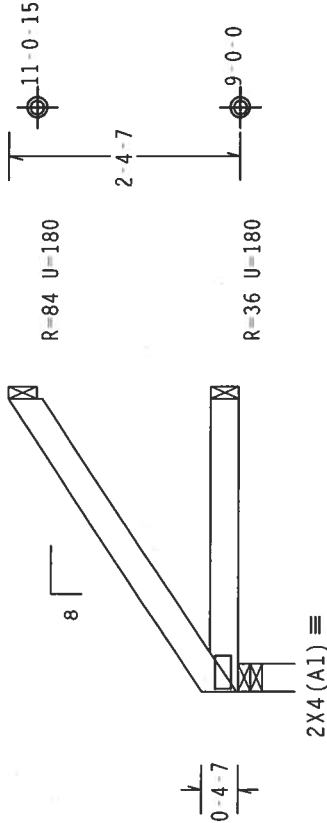


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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.



13-0 Over 3 Supports
R-133 U-180 W-3.5"

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22.1

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

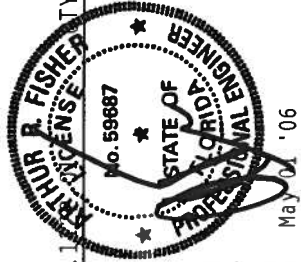
Scale = .5" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 D'ORFIO DR., SUITE 200, MADISON, WI 53719) AND MCA (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 2010/160A (4-H/5K) ASH A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERMITTED. ALPINE ENGINEERED PRODUCTS, INC. DRIVING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487 - - 50335
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121065
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73245
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 202

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - J3RR)

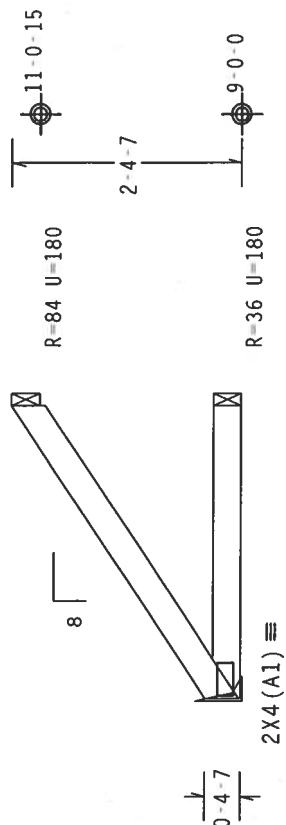
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

(J) hanger connection not found in inventory file for this condition.
Provide connection.

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

110 mph wind, 15.00 ft mean ht, 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.



3-0-0 Over 3 Supports

R-132 U-180 H-Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. (H)

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

PLT TYP. Wave

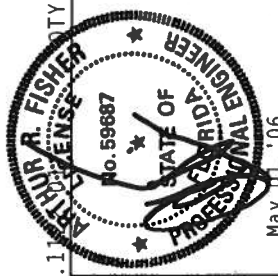
FL/-4/-/-R/-

Scale = .5" /Ft.

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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2010/160A (N-H/S/K) ASH A653 GRADE 40760 (N. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY ANY INSPECTION OF TRUSSES LOCATED ON THIS DESIGN. DESIGNER'S RESPONSIBILITY FOR THE TRUSS COMPONENTS IS 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
Professional Engineer
No. 59887
May 01 '06



TC LL	20.0 PSF	REF	R487 - - 50336
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121064
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73243
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - HJS)

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

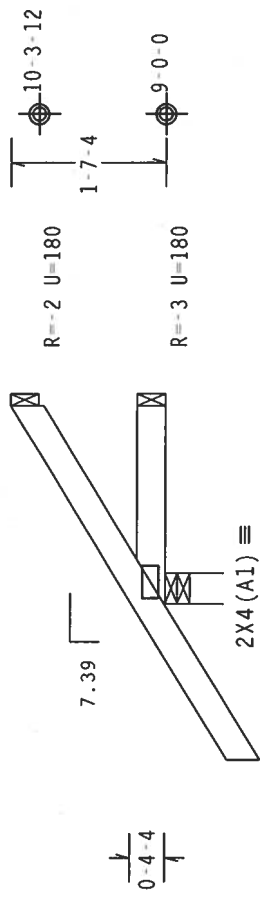
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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.

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

Hipjack supports 1-5-4 setback jacks with no webs.

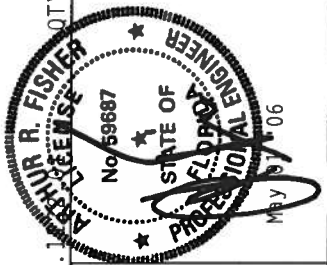
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



←1-7-3→
2-0-6 Over 3 Supports
R=91 U=180 W=3.788"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

TC LL	20.0 PSF	FL / - / 4 / - / R / -	QTY: 2	Scale = 5" / Ft.
TC DL	10.0 PSF			REF R487 - - 50337
BC DL	10.0 PSF			DATE 05/01/06
BC LL	0.0 PSF			DRW HCUSR487 06121109
TOT.LD.	40.0 PSF			HC-ENG JB/AF
DUR.FAC.	1.25			SEQN- 73253
SPACING	24.0"			JREF- 1SWU487 702



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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 2018T1606A (4-H/5K7) ASTM A653 GRADE 40/60 (40 KSI / 60 KSI) GALV. STEEL. APPLY PROTECTIVE COATING TO ALL EXPOSED SURFACES. UNLESS OTHERWISE SPECIFIED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. ANY INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION OF THE TRUSS SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

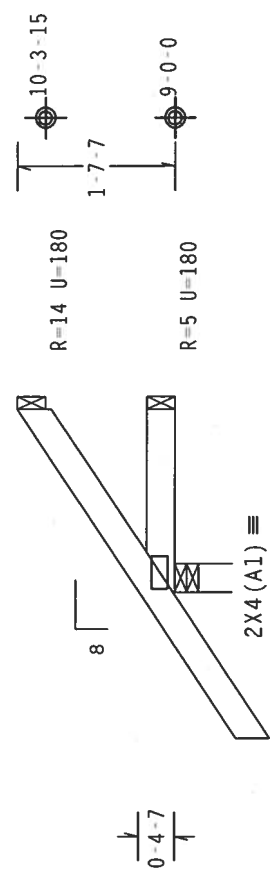
(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - EJS)

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 htg, 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.

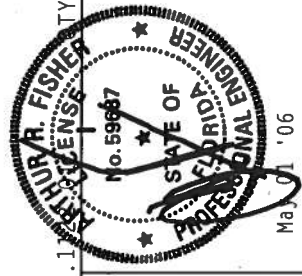


1-10-8 Over 3 Supports
R-242 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22.11

Scale = .5" / Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO PCS1 BUILDING INFORMATION SYSTEM (BIS) FOR THE LATEST EDITION OF THE NATIONAL COUNCIL OF AMERICAN TRUSS MANUFACTURERS (NATAM) DESIGN SPECIFICATION FOR STEEL TRUSSES (SDS-1) AND THE NATIONAL COUNCIL OF AMERICAN TRUSS MANUFACTURERS (NATAM) DESIGN SPECIFICATION FOR WOOD TRUSSES (SDS-2). TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (4-H/5/3/4) ASTM A653 GRADE 40/60 (4, 4/H, 5) 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 INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER. THE DESIGNER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP1 1 SEC. 7.



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

PLT TYP. Wave

REF	R487--	50338
DATE	05/01/06	
DRW	HCUSR487	06121058
HC-ENG	JB/AF	
SEQN	73234	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF	1SWU487	702

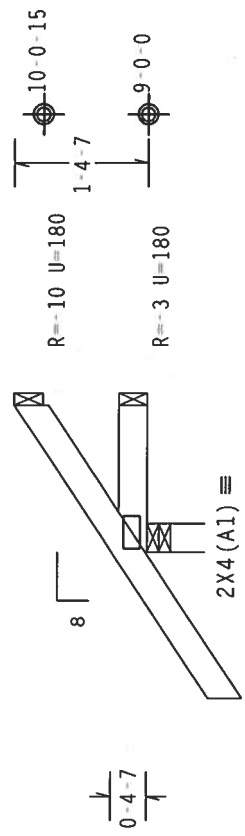
(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - EJZ)

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 htg, 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.

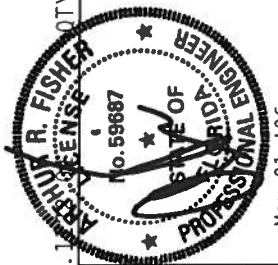


1-6-0 Over 3 Supports
R=241 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/(10(0) 7.22.1

Scale =.5"/Ft.



May 01 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONOHIO 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 2010/160A (N-H/S/K) ASTM A653 GRADE 40760 (M. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY SHIPMENT OF THIS DESIGN. DESIGNER'S RESPONSIBILITY FOR THE TRUSS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

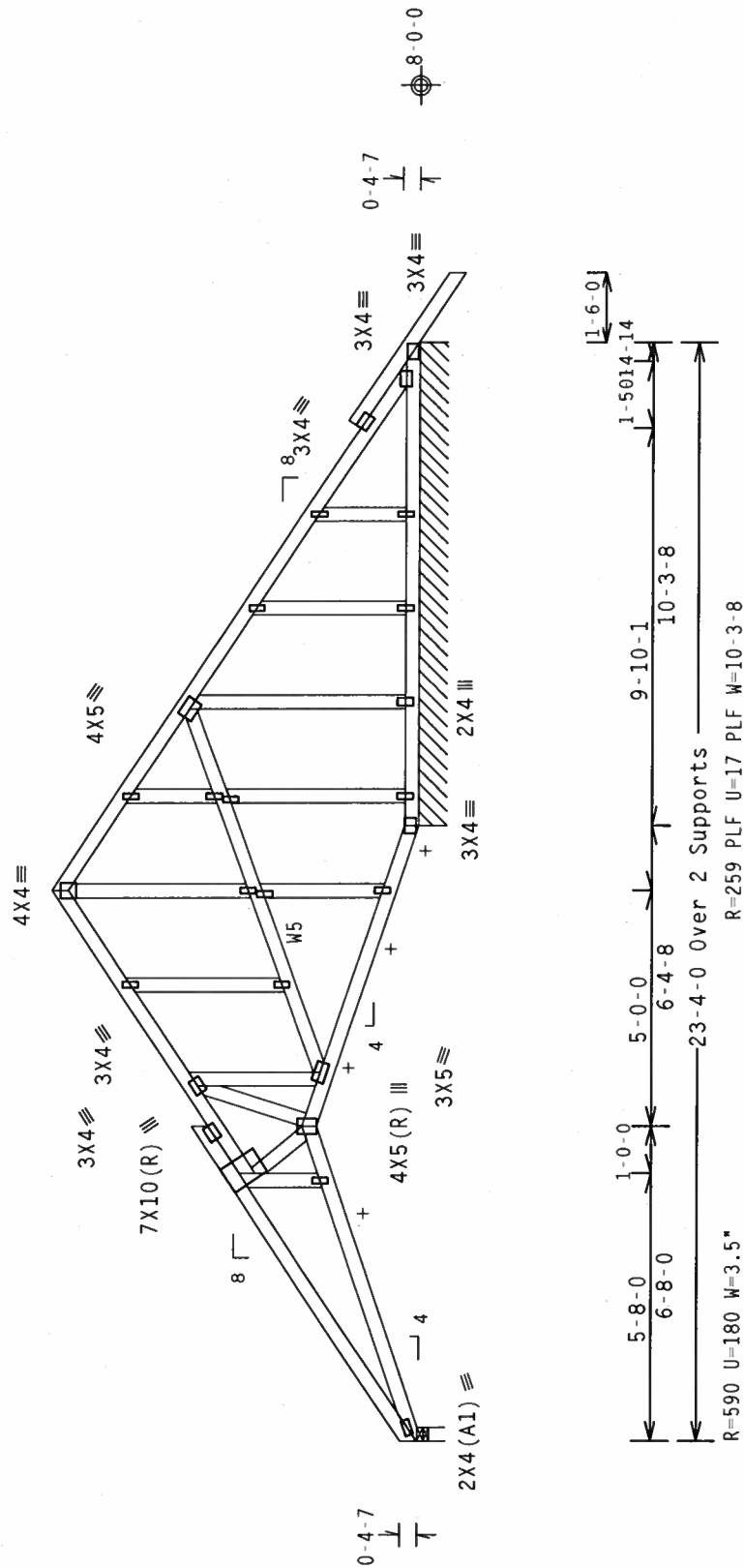
TC LL	20.0 PSF	REF	R487 - - 50339
TC DL	10.0 PSF	DATE	05/01/06
BC DL	10.0 PSF	DRW	HCUSR487 06121082
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	73237
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487 Z02

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.

+ 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

PLT TYP. Wave

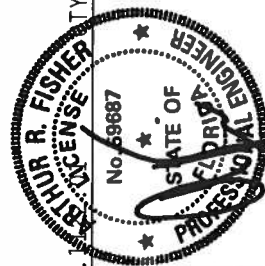
7.22.

E11-141-1-1B/-

Scale = 25"/ft.

****WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.**
 **REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY FORM),
 D-05F0810 RD., SUITE 200, MADISON, WI 53719, AND WCA WOOD TRUSS COUNCIL OF NORTH AMERICA, INC.,
 D-05M010 RD., SUITE 200, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE
 NOTED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED
 RIGID CEILING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN COMPLIANCE WITH TPI'S OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTOR PLATES AND ALL OTHER PROVISIONS OF ADS (NATIONAL DESIGN SPEC. (N/A) AND TPI's), ALPINE ENGINEERED PRODUCTS, INC. WILL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONAL INJURY. UNLESS OTHERWISE LOCATED ON DESIGNED DRAWINGS, THERE SHALL BE ONE HANGAR PER DRAWING, 2' BY 8' IN SIZE. IF THERE IS AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI'S 2003 SPEC. SECTION 7.2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. - 2.



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

Haines City, FL 33844
FL Certificate of Automobile Insurance # 567

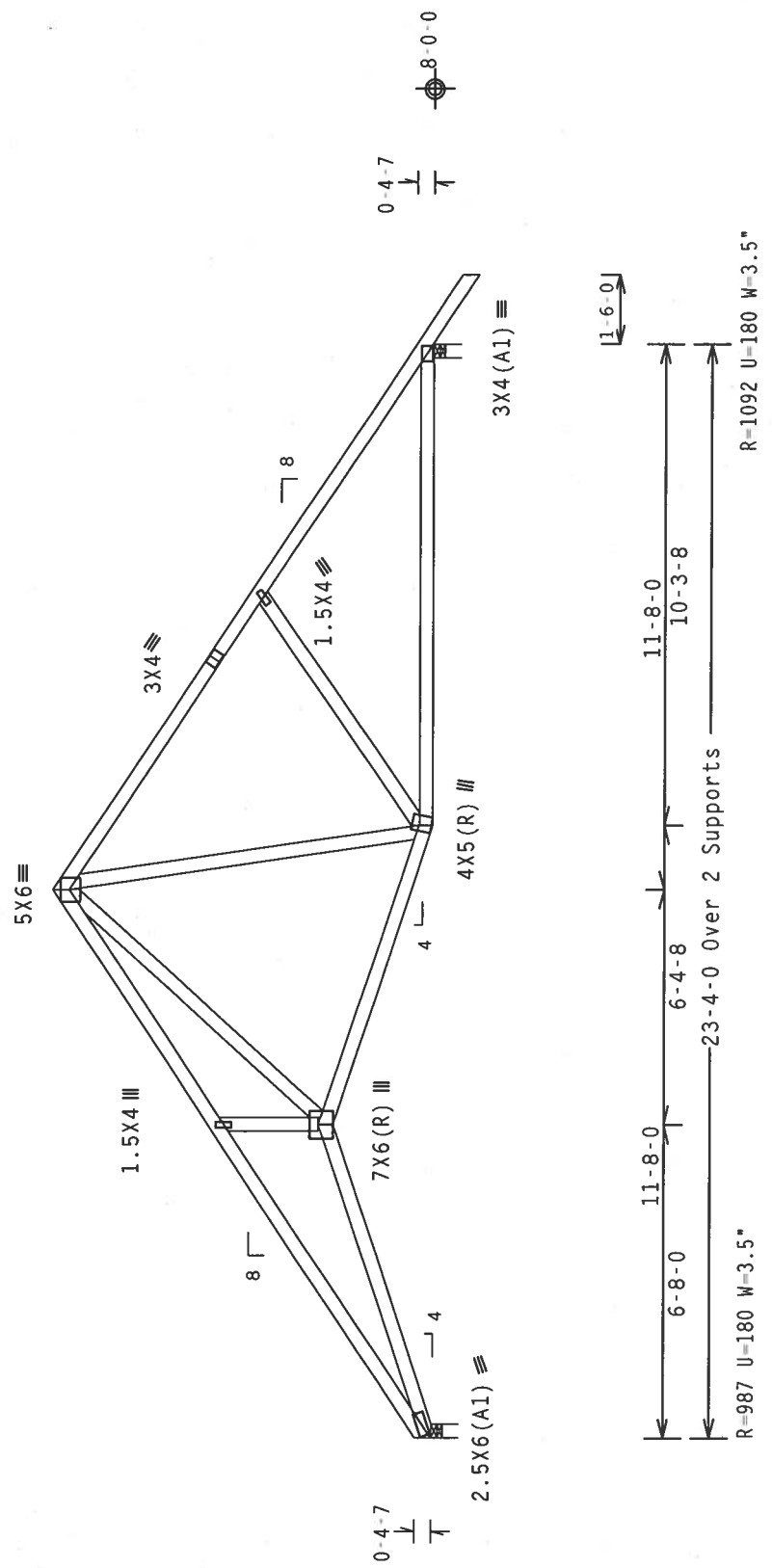
SPACING 24.0"

REF- 1SWU487 Z02

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.22.1

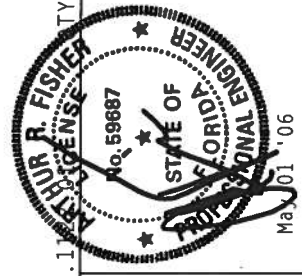
Scale = .25" / Ft.

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"

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

****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), 103 D'ORFORD DR., SUITE 200, MADISON, WI 53719, AND MECA (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 2018/166A (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. DRAMATICALLY REDUCES THE RISK OF FAILURE. THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DESIGNER SHALL BE PER ANS/1/1 SEC. 2. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DESIGNER PER ANS/1/1 SEC. 2.



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

Top chord 2x4 SP #2 Dense

Bot chord 2x8 SP SS

Web 2x4 SP #3 :W1, W2, W4 2x4 SP #2 Dense:

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 24.83
BC - From 548 PLF at 0.00 to 548 PLF at 15.33
BC - From 20 PLF at 15.33 to 20 PLF at 23.33
BC - From 5 PLF at 23.33 to 5 PLF at 24.83
BC - 1944 LB Conc. Load at 16.33

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.

6X8

1.5X4

3X4

6X6

2 COMPLETE TRUSSES REQUIRED

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

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

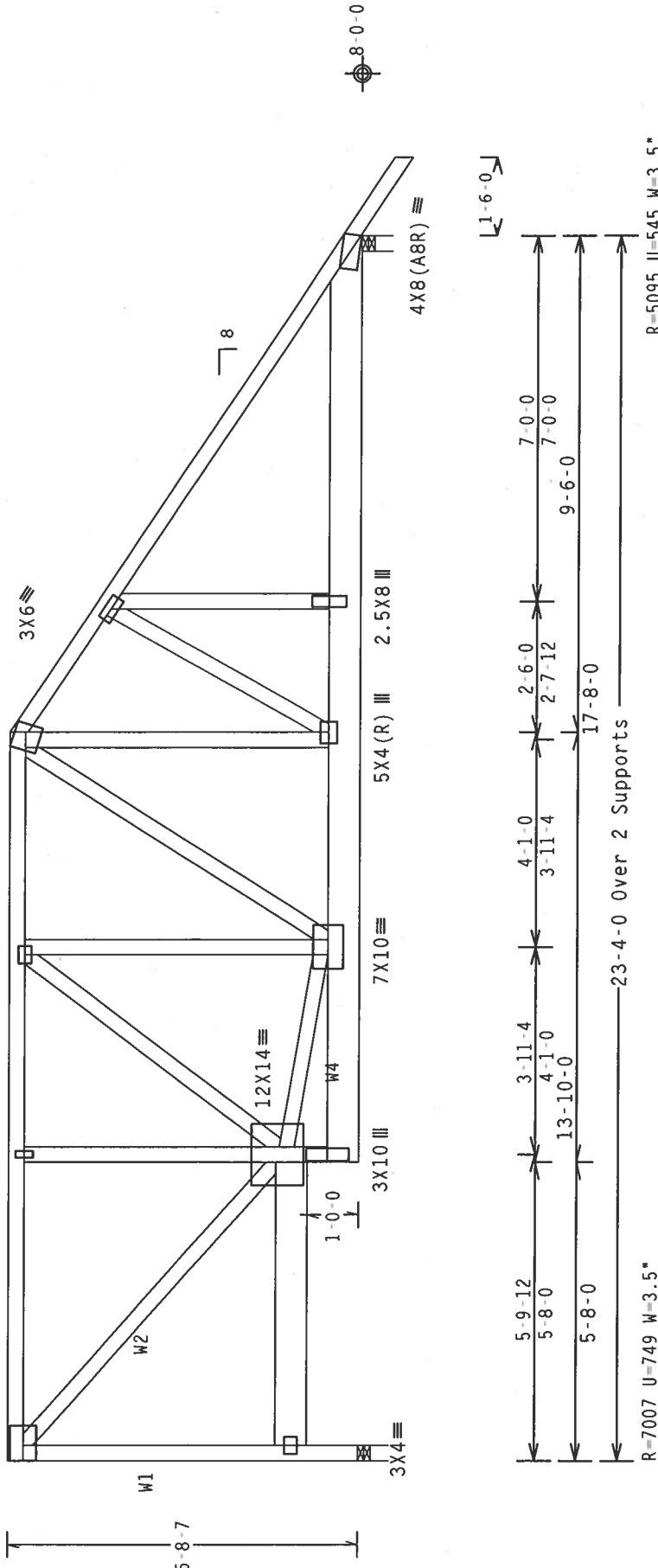
Bot Chord: 1 Row @5.25" o.c.

Web : 1 Row @ 4" o.c.

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

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

Max JT VERT DEFL: LL: 0.09" DL: 0.15" recommended camber 1/4"



PLT TYP. Wave

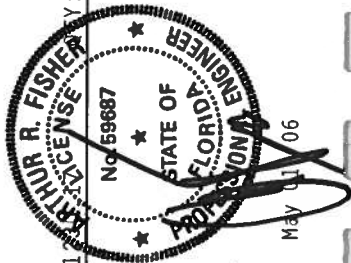
Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7-24-10

Scale = .3125" / 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 ENTERPRISE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, 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 CONTRACTORS WITH NO PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTED PLATES WITH NO PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DRAWING, POSITIONS PER A SEAL ON THIS ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEA 3 OF TPI 2002 SEC. 3. STEEL APPLIED TO TRUSS 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.



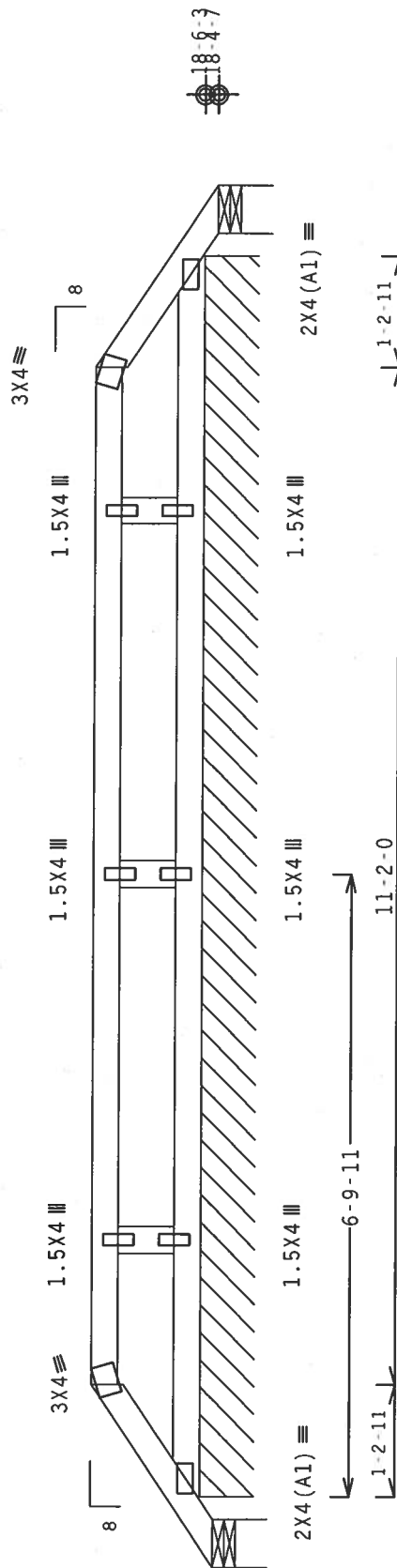
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	SEE ABOVE
JREF	1SWU487 Z02

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

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

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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



R-12 U=180 W=6.31"
R-71 PLF U=21 PLF W=13-7-6
15'-2-0 Over 3 Supports
R-12 U=180 W=6.31"

Design Crit: TPI-2002 (STD) / FBC

PLT TYP. Wave

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

7.22.1

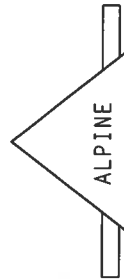
FL/-4/-/-R/-

Scale = .5" / Ft.



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (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. INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISIONS OF THIS DESIGN. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THE PROVISIONS OF THIS DESIGN. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THE PROVISIONS OF THIS DESIGN. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR THE PROVISIONS OF THIS DESIGN.



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

TC LL	20.0 PSF	REF	R487 - -	50343
TC DL	10.0 PSF	DATE	05/01/06	
BC DL	2.0 PSF	DRW	HCUSR487	06121092
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	32.0 PSF	SEQN-	133612	REV
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SWU487	Z02

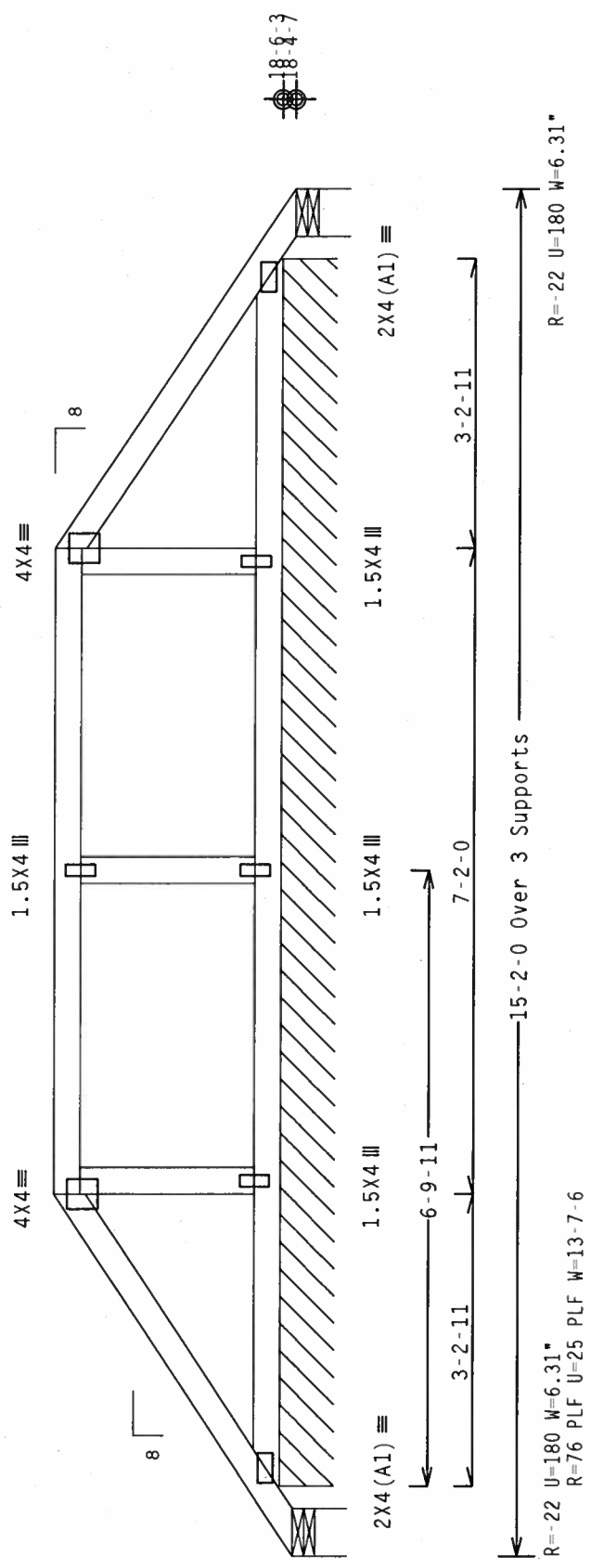
(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - AP2)

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

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

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

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

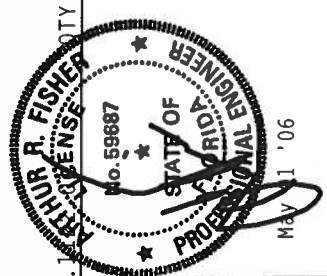


PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7-22-11

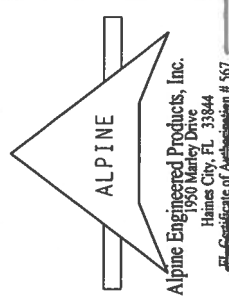
Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487-- 50344
TC DL	10.0 PSF	DATE	05/01/06
BC DL	2.0 PSF	DRW	HCUSR487 06121090
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEQN	73378
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SWU487 Z02



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BL, D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND MTCA (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 2018/16GA (W/H/5) ASTM A553 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



(5-422-SETH HEITZMAN -#30 SPRING HOLLOW - AP3)

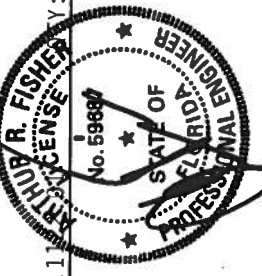
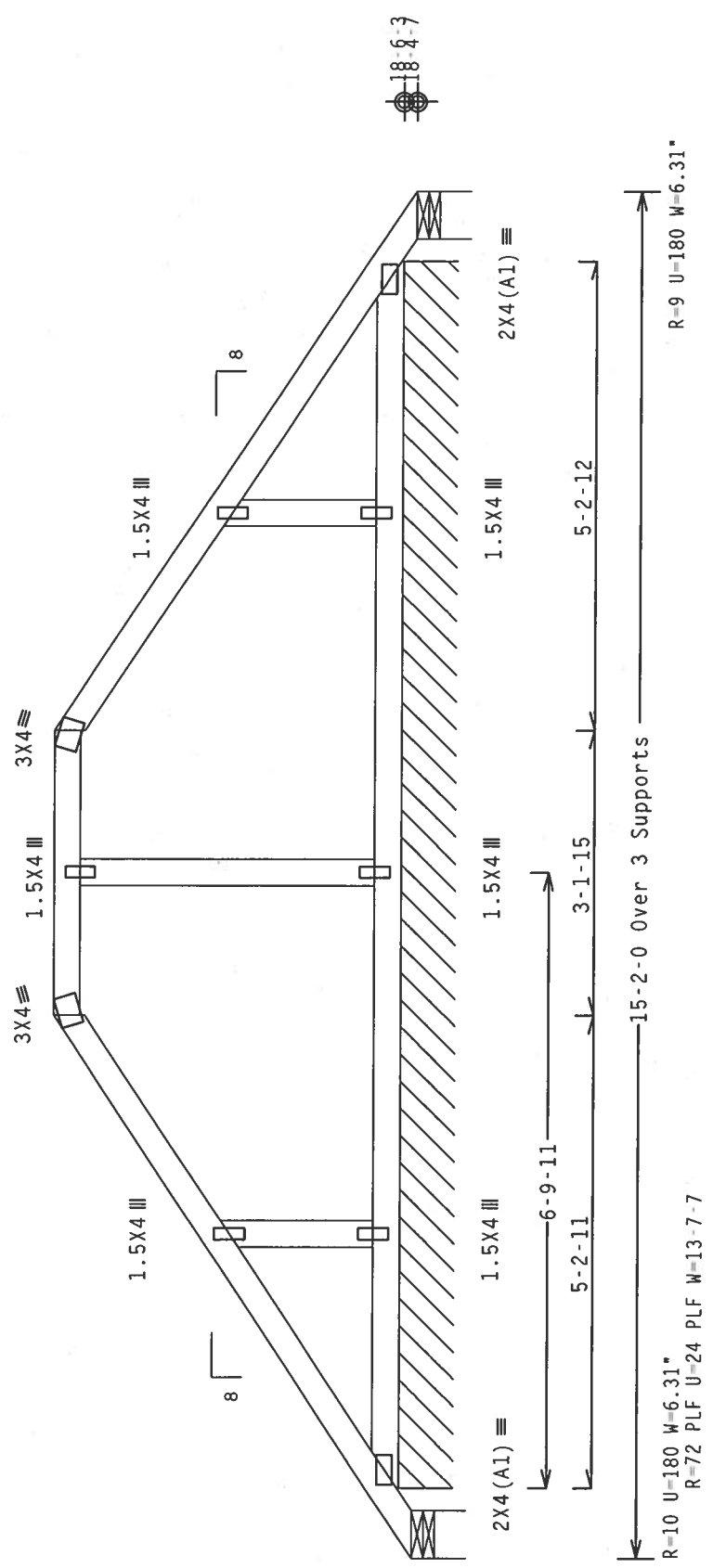
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

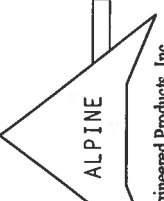
Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=1.2 psf.

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=1.00(1.25)/10(0)		7.22.11		Scale = .5" / Ft.	
R-10 U=180 W=6.31"		R-72 PLF U=24 PLF W=13-7-7		15-2-0 Over 3 Supports		R=9 U=180 W=6.31"		FL/-4/-/-R/-	
2X4 (A1) ≡		1.5X4 ≡		1.5X4 ≡		2X4 (A1) ≡		TC LL 20.0 PSF	
6-9-11		3-1-15		5-2-12				TC DL 10.0 PSF	
15-2-0 Over 3 Supports								BC DL 2.0 PSF	
								BC LL 0.0 PSF	
								TOT.LD. 32.0 PSF	
								DUR.FAC. 1.25	
								SPACING 24.0"	
								JREF- 1SWU487-202	
								REF R487-- 50345	
								DATE 05/01/06	
								DRW HCUSR487 06121089	
								HC-ENG JB/AF	
								SEQN- 73366	



ALPINE
Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. UNLESS OTHERWISE SPECIFIED, ALL TRUSSES ARE MADE OF 20/18/16GA (U-H/S/KS) ASTM A653 GRADE 40/60 (M. K/M.S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY VISUAL INSPECTION OF THE TRUSS. POSITION PER DRAWINGS 100A-Z. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(5-422-SETH HEITZMAN - #30 SPRING HOLLOW - AP4)

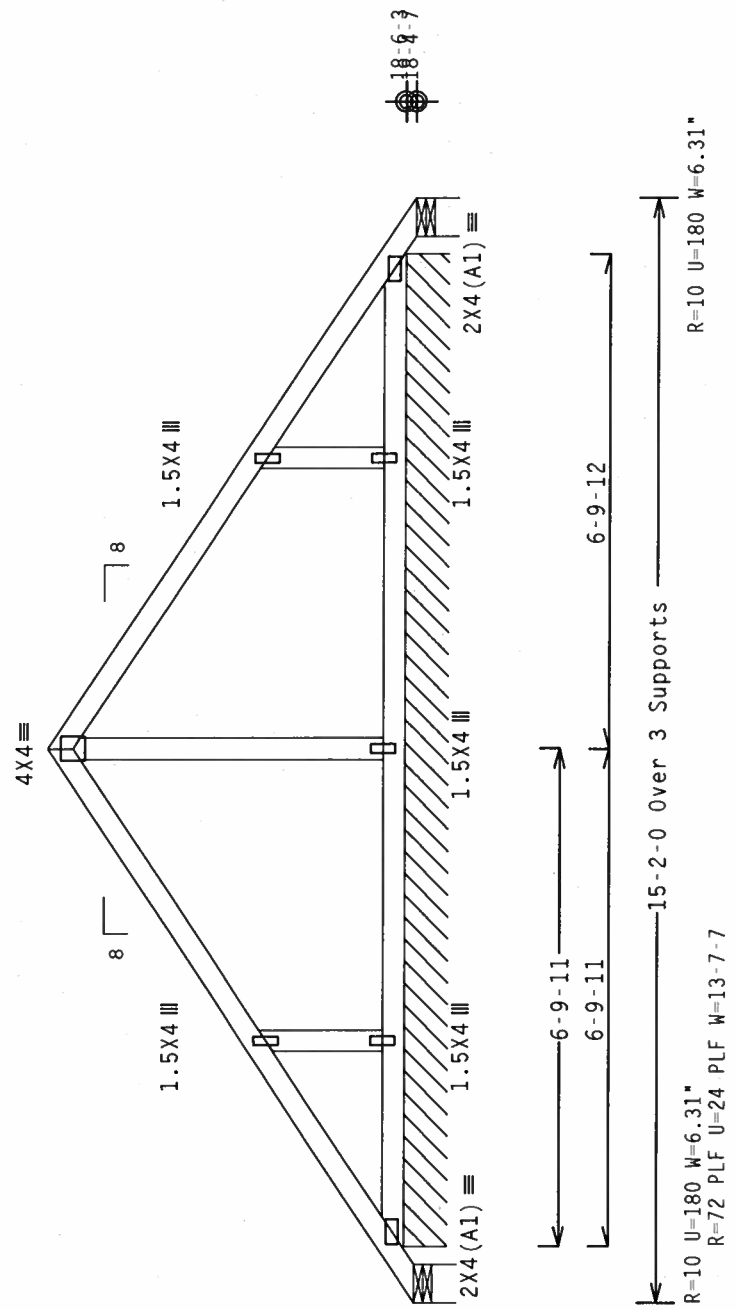
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 20.90 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7-22-11

Scale = .375"/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, 503 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.

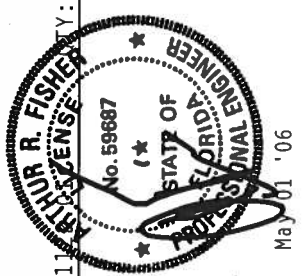
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CORRUGATED PLATES ARE MADE OF 2018/106A (W/H/S/X) ASTM A653 GRADE 40/60 (W. K/H.S) GALV. STEEL. APPLY AN INTERSECTION FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A Z. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLER. SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING 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.

TC LL	20.0 PSF	FL/-4/-1-R/-
TC DL	10.0 PSF	REF R487-- 50346
BC DL	2.0 PSF	DATE 05/01/06
BC LL	0.0 PSF	DRW HCUSR487 06121101
TOT.LD.	32.0 PSF	HC-ENG JB/AF
DUR.FAC.	1.25	SEQN- 73357
SPACING	24.0"	JREF- 1SWU487 Z02

ALPINE

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1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567

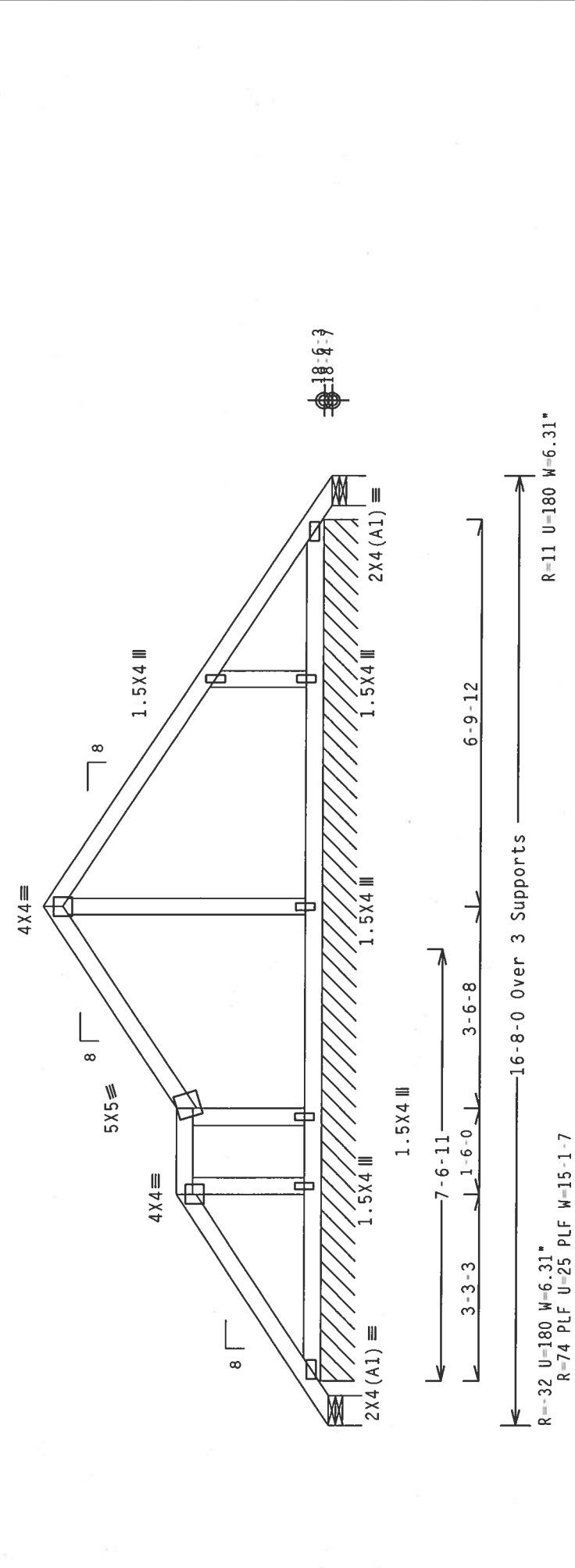


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.
Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.90 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=1.2 psf.

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=1.00(1.25)/10(0) 7.22.1

Scale = .375"/Ft.

TC LL	20.0 PSF	REF R487 - 50348
TC DL	10.0 PSF	DATE 05/01/06
BC DL	2.0 PSF	DRW HCUSR487 06121104
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 73337
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWU487 202

ALPINE

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

Professional Engineer
No. 59887
State of Florida
March 1, 2006

THOMAS P. FISHER
Professional Engineer
No. 59887
State of Florida
March 1, 2006

ALPINE

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

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1950 Marley Drive
Haines City, FL 33844

Professional Engineer
No. 59887
State of Florida
March 1, 2006

THOMAS P. FISHER
Professional Engineer
No. 59887
State of Florida
March 1, 2006

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

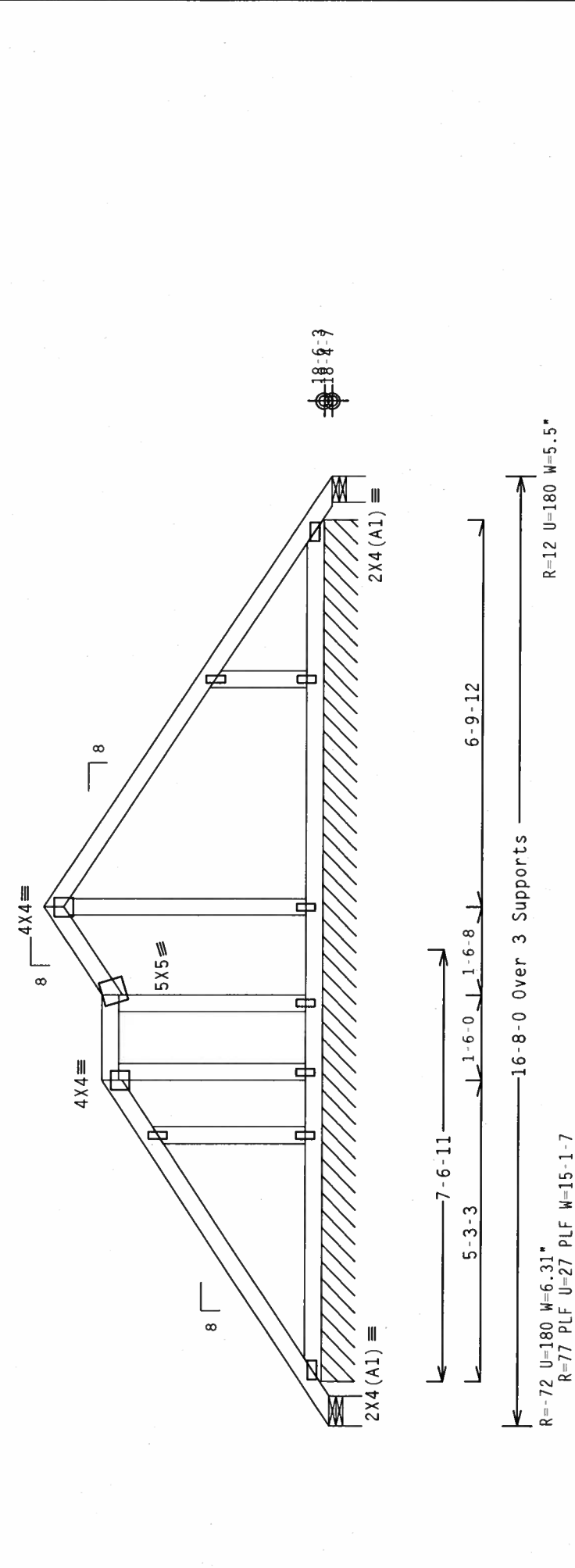
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.
Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.90 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=1.2 psf.

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

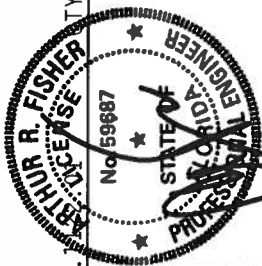
110 mph wind, 20.90 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=1.2 psf.

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



PLT TYP. Wave

Scale = .375" / Ft.	
REF R487--	50349
DATE	05/01/06
DRW HCUSR487	06121106
HC-ENG JB/AF	
SEQN-	22279
DUR.FAC.	1.25
SPACING	24.0"
JREF-	1SWU487 702



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FL Certificate of Authorization # 567

ALPINE
ENGINEERED
PRODUCTS, INC.
1950 MARLEY DRIVE
HAINES CITY, FL 33844
FL CERTIFICATE OF AUTHORIZATION # 567

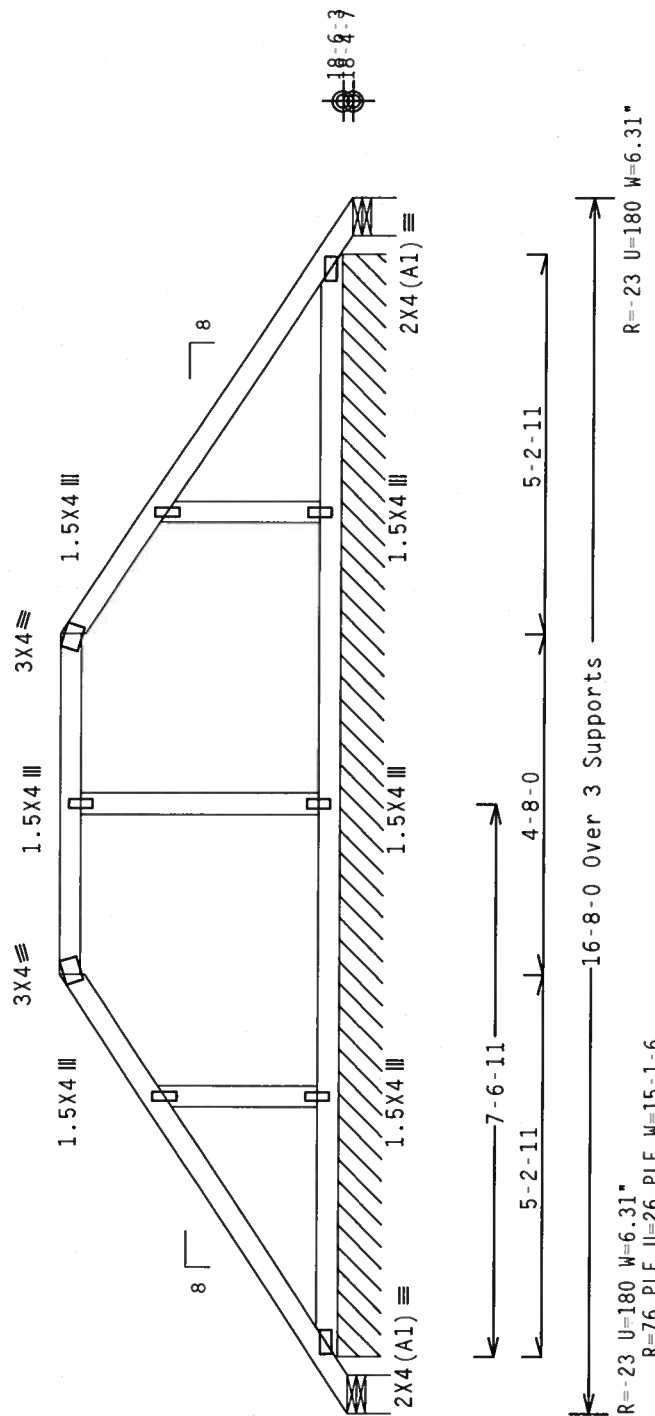
(5-422-SETH HEITZMAN #30 SPRING HOLLOW - BP8)

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

110 mph wind, 20.37 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

Refer to DWG PIGBACK1103 or PIGBACK0204 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



PLT TYP. Wave

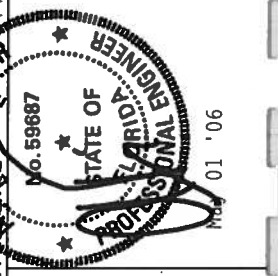
Design Crit: TPI-2002 (STD) / FBC
Cq/RT=1.00(1.25)/10(0)

7-22-11

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

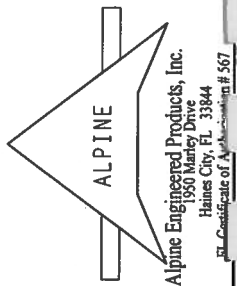
Scale = .375" / Ft.

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TC DL	10.0 PSF	DATE	05/01/06	
BC DL	2.0 PSF	DRW	HCUSR487	06121107
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	32.0 PSF	SEQN-	133602	REV
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SWU487	702



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BC31 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 103 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 AFPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W./5/K) ASTM A553 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SEAL OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN HEREON. THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSITPI 1 SEC. 2.



(5-422-SETH HEITZMAN #30 SPRING HOLLOW - BP9)

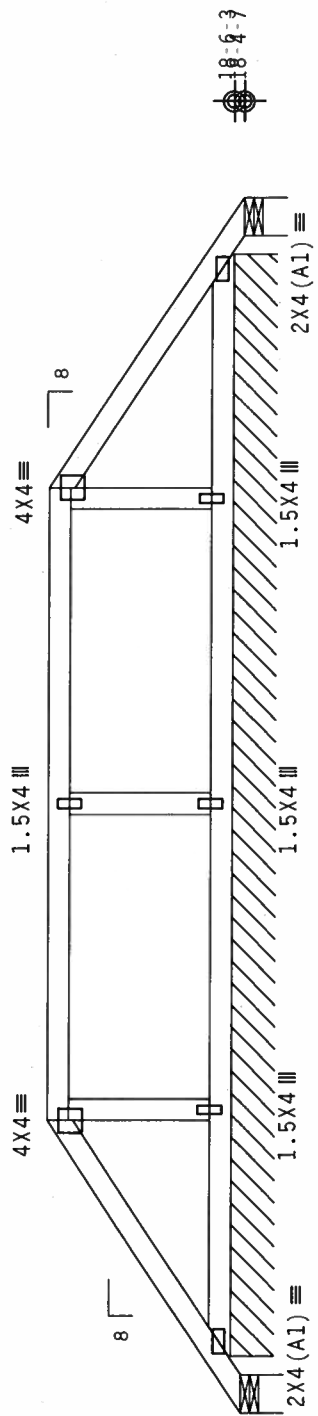
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

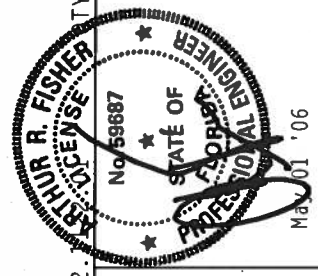
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACK1103 or PIGBACK0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



R=16 U=180 W=6.31"
R=75 PLF U=25 PLF W=15-1-6
16-8-0 Over 3 Supports

Design Crit: TPI-2002 (STD) / FBC
Cq/RT=1.00(1.25)/10(0) 7.22



****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'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.

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ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Phone # 561-891-1111

PLT TYP. Wave	TY:1	FL/-4/-1-/R/-	Scale = .375"/Ft.
TC LL	20.0 PSF	REF R487--	50351
TC DL	10.0 PSF	DATE	05/01/06
BC DL	2.0 PSF	DRW	HCUSR487 06121073
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEQN-	22257
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SWU487_Z02

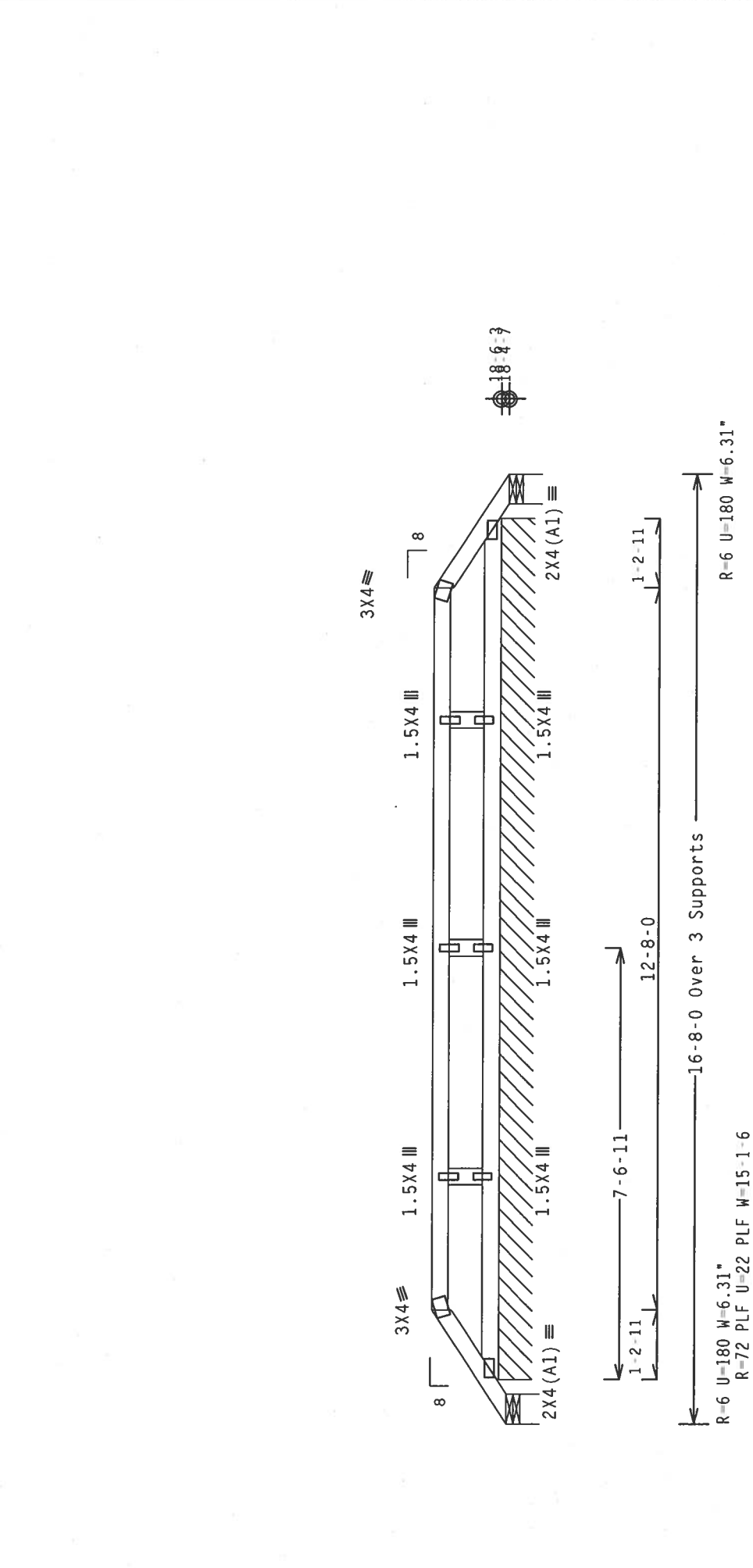
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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=1.00(1.25)/10(0) 7.22.1

Scale = .375"/Ft.

ALPINE

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

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 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND VICA (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 CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. APPLY CONNECTOR PLATES ARE MADE OF 2018/16GA (N.H/5/4) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS AND THE 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	2.0 PSF
BC LL	0.0 PSF
TOT.LD.	32.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF R487-- 50352

DATE 05/01/06

DRW HCUSR487 06121100

HC-ENG JB/AF

SEON- 22250

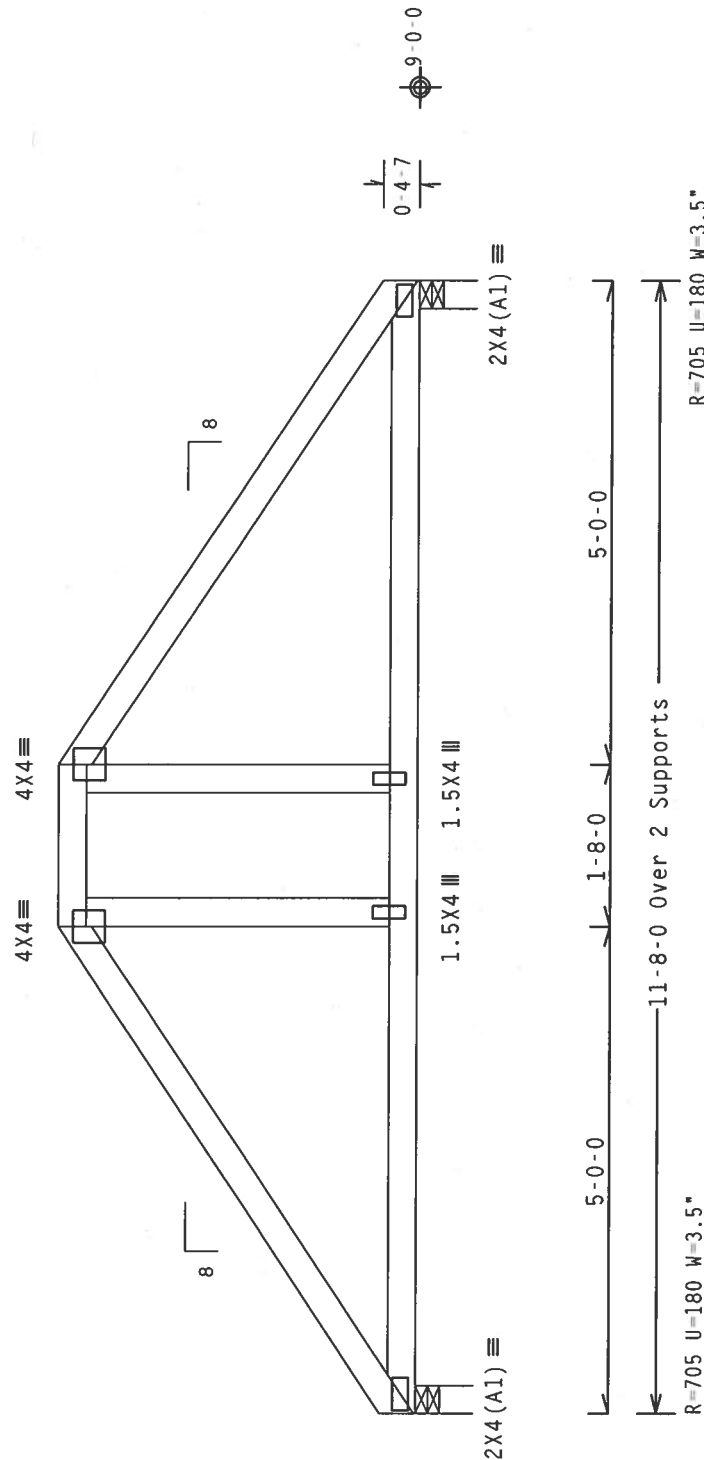
JREF- 1SWU487_Z02

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

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

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.



Design Crit: TPI-2002 (STD) / FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1

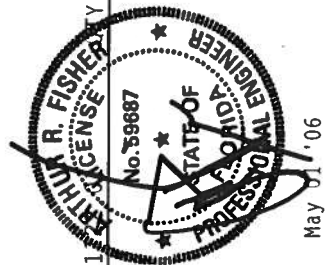
Scale = .5" / Ft.

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

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



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 - 50353
DATE	05/01/06
DRW	HCUSR487 06121068
HC-ENG	JB/AF
SEQN	22179
JREF	1SWU487_202

(5-422-SETH HEITZMAN #30 SPRING HOLLOW - R2G)

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

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

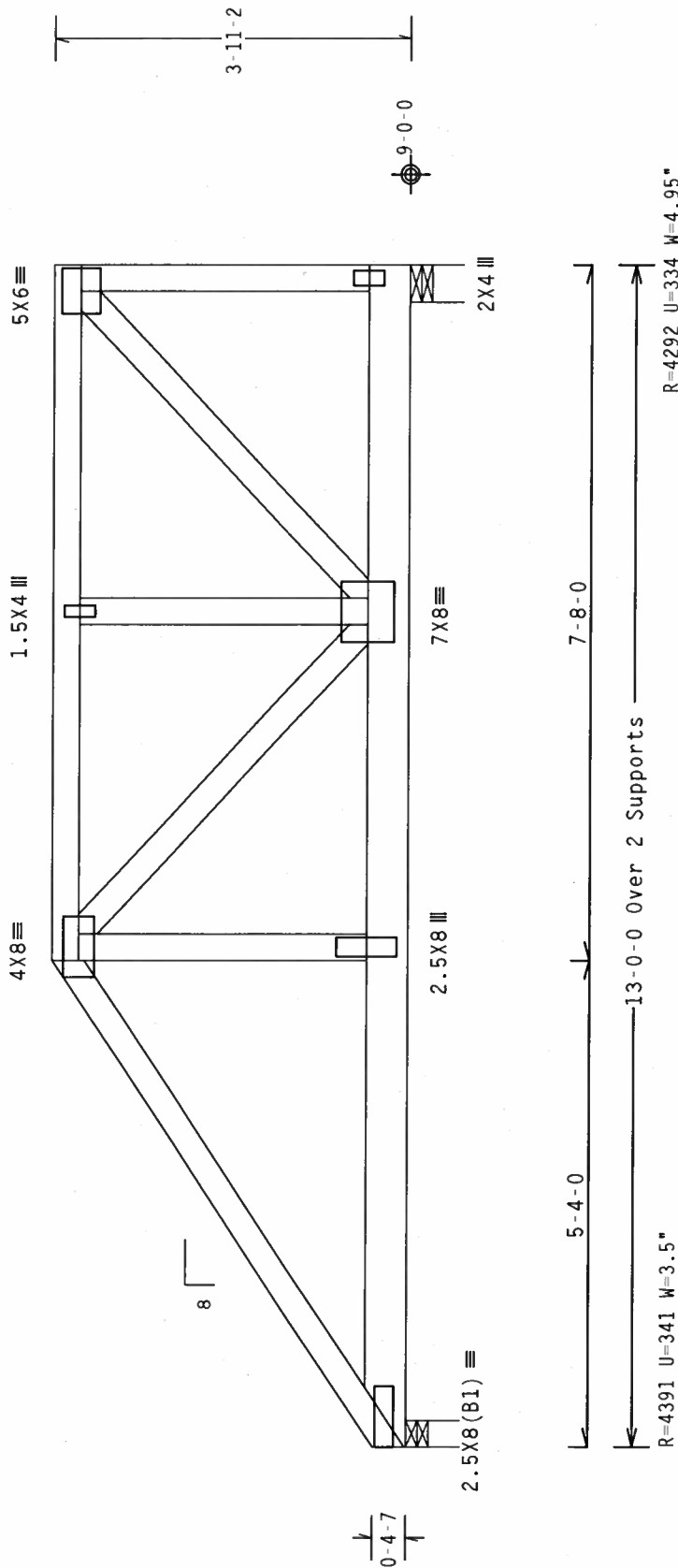
Girder supports 30'-1-0" span to BC one face and 2'-0-0" span to TC/BC
split opposite face.

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

2 COMPLETE TRUSSES REQUIRED

Nailling Schedule: (12d Common (0.148"x3.25",_min._) _nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @6.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

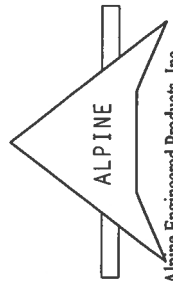
Cq/RT=1.00(1.25)/10(0)

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

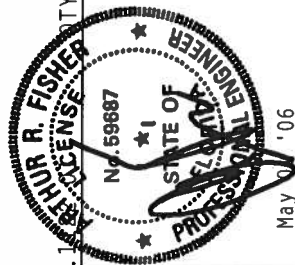
Scale = 5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 183 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND MTCA (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.
1950 Marley Drive
Haines City, FL 33844
Certificate of Approval # 561



TC LL	20.0 PSF	REF	R487--	50354
TC DL	10.0 PSF	DATE	05/01/06	
BC DL	10.0 PSF	DRW	HCUSR487	06121083
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	73575	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SWU487_Z02	

(5-422-SETH HEITZMAN-#30 SPRING HOLLOW - SIG)

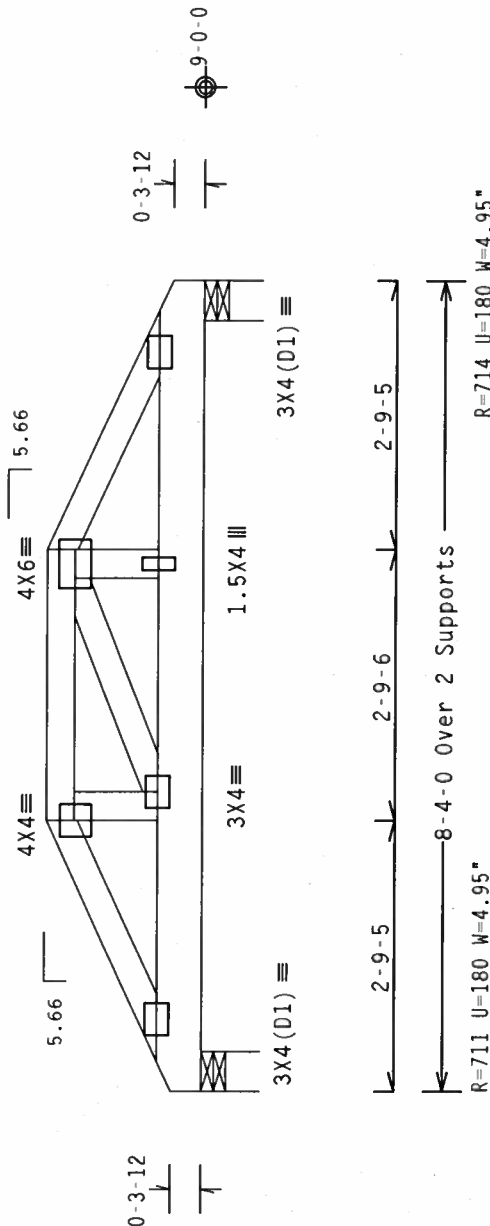
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.31 to 20 PLF at 8.02
BC - From 20 PLF at 0.00 to 20 PLF at 8.33
TC - 2 LB Conc. Load at 2.78, 5.56
TC - 14 LB Conc. Load at 2.84, 4.84, 5.49
BC - 132 LB Conc. Load at 1.42, 6.91
BC - 3 LB Conc. Load at 2.78, 5.56
BC - 5 LB Conc. Load at 2.84, 5.49
BC - 215 LB Conc. Load at 3.40
BC - 220 LB Conc. Load at 4.94



Design Crit: TPI-2002(STD)/FBC

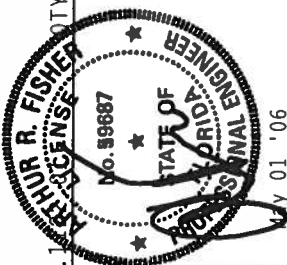
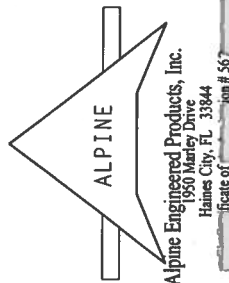
PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1

Scale = 5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'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.

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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"

REF	R487--	50355
DATE	05/01/06	
DRW	HCUSR487	06121066
HC-ENG	JB/AF	
SEQN	22186	
JREF	1SWU487	Z02

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

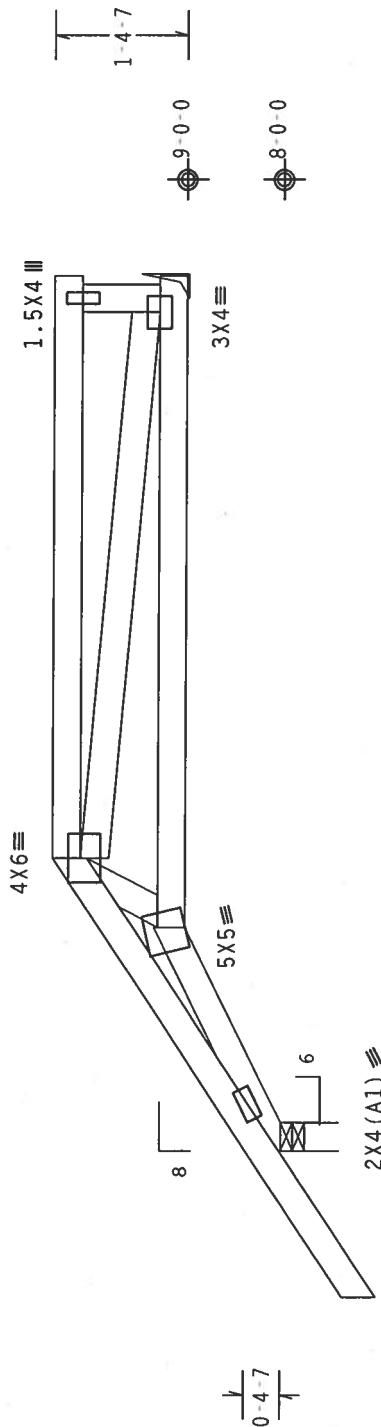
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf.

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.

SPECIAL LOADS

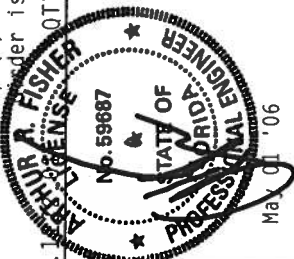
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 9.00
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 22 PLF at 0.00 to 22 PLF at 2.29
TC - From 20 PLF at 2.29 to 20 PLF at 9.00
TC - -10 LB Conc. Load at 3.06, 5.06, 7.06
BC - -3 LB Conc. Load at 3.06, 5.06, 7.06

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



R=345 U=180 H=Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X4 min. So.Pine

Scale = 5" / Ft.



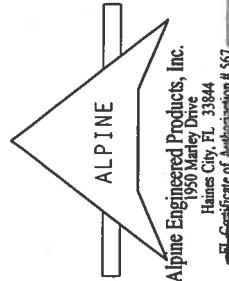
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1

PLT TYP. Wave

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, INC., 1000 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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TC LL	20.0 PSF	REF	R487--	50356
TC DL	10.0 PSF	DATE	05/01/06	
BC DL	10.0 PSF	DRW	HCUSR487	06121084
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN	22193	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1SWU487	Z02



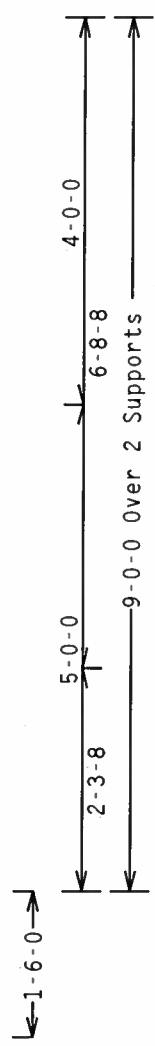
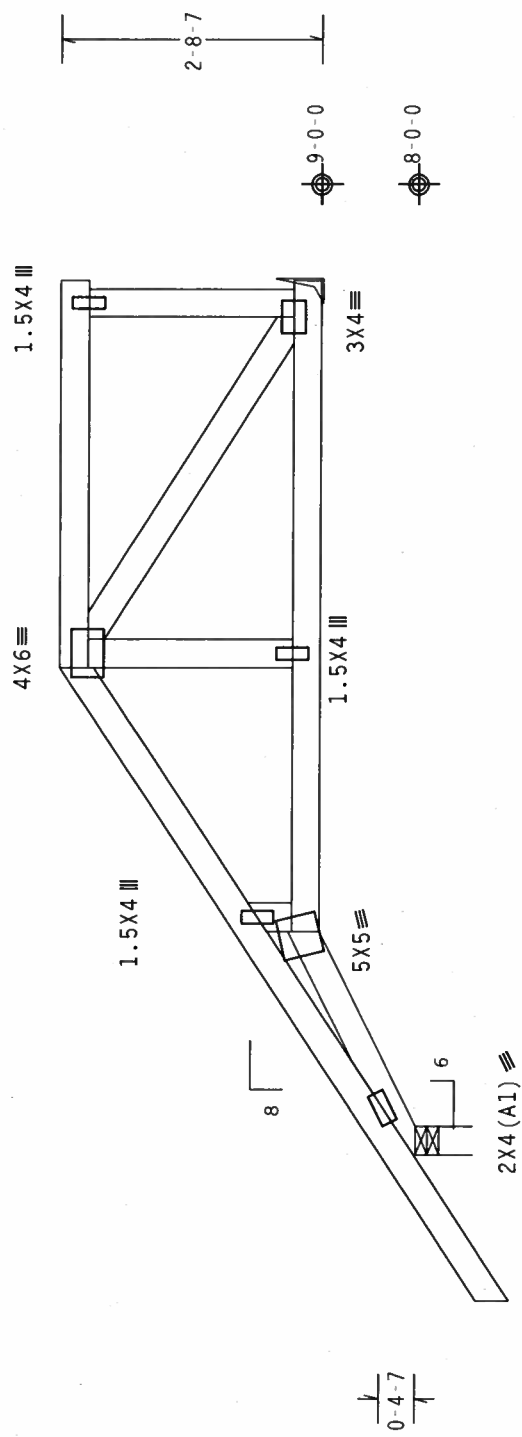
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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.

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.



R=366 U=180 H=Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Per is (1)2X4 min. So.Pine

Scale = .5" / Ft.



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.22.1

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'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.

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

TC LL	20.0 PSF	REF	R487--	50357
TC DL	10.0 PSF	DATE	05/01/06	
BC DL	10.0 PSF	DRW	HCUSR487	06121086
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	22202	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SWU487_Z02	

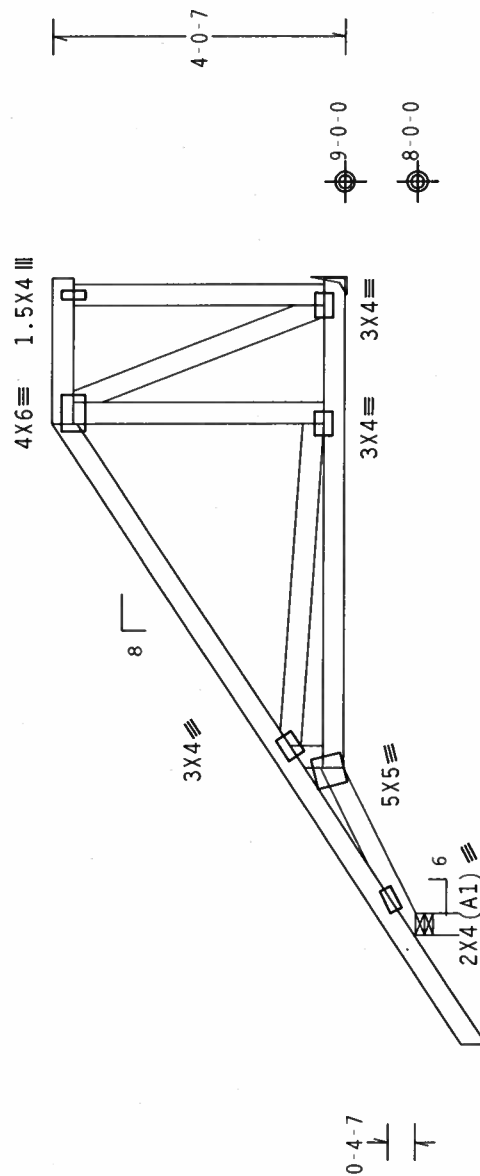
	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
		webs	2x4	SP	#3	

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.

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

Right end vertical not exposed to wind pressure.

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



LE1-6-07

Diagram of a continuous beam with three supports. The beam is divided into four segments by three supports. The first segment is 2-3-8, the second is 7-0-0, the third is 6-8-8, and the fourth is 2-0-0. The total length is 16-11-6. The beam is labeled "9-0-0 Over 2 Supports".

R=499 U=180 W=3.5"

R-366 U=180 H=Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Compression 48"x3.0" nails in Girder
Girder is (2) 24" R. F. Joist

Design Crit: TPI-2002(STD)/FBC

FL/-4/-/-R/-
Scale = .375"/Ft.

PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO BIG L (BOLTING COMPONENT SAFETY INFORMATION) PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 583 KENNEDY BLVD., SUITE 100, CHICAGO, ILL. 60612) AND TO THE TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE LN., MADISON, WI 53719, FOR SAFETY PRACTICES FOR PRODUCING THESE TRUSSES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

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REF R487 - - 50358

DATE 05/01/06

DRW HCUSR487 06121087

HC-ENG JB/AF

SEQN- 22210

JREF- 1SWU487_Z02

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authentication # S67

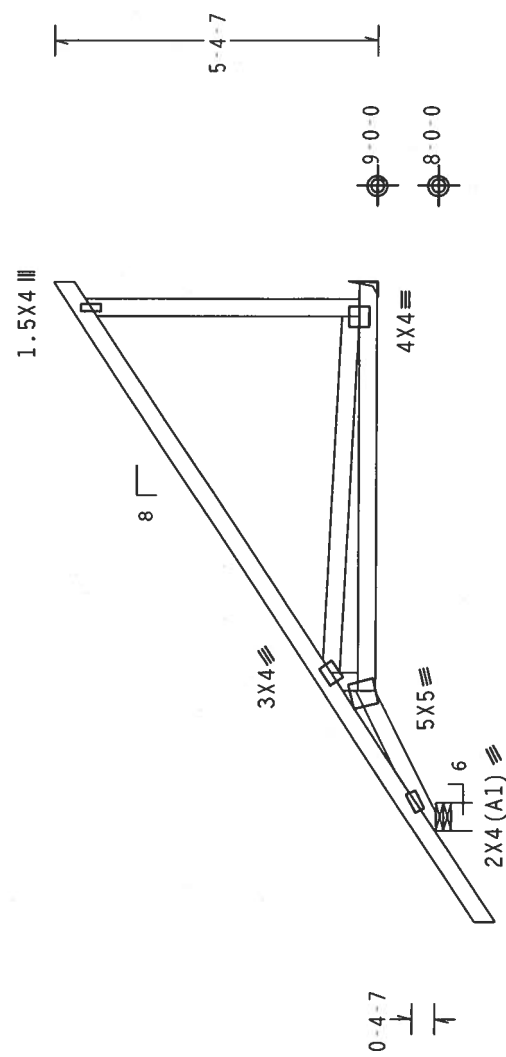
Fluoridation of Water

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.



1-6-0

2-3-8
6-8-8
9-0-0 Over 2 Supports
R-503 U-180 W-5.5"

R-362 U-180 H-Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1) 2x4 So. Pine

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7-22.1

PLT TYP. Wave 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 ALPINE, 1550 MARLEY DRIVE, SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, 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 AFAPA) AND TPI. ALPINE CONNECTIONS ARE MADE OF 2018/16GA (W/H/2X) ASTM A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY TO ALL EXPOSED SURFACES. THESE TRUSSES ARE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 100A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BEER RESPONSIBILITY SOLELY FOR THE TRUSS COMPANY 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	FL / - / 4 / - / - / R / -	REF	R487--	50359
TC DL	10.0 PSF		DATE	05/01/06	
BC DL	10.0 PSF		DRW	HCUSR487	06121085
BC LL	0.0 PSF		HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF		SEQN	22220	
DUR.FAC.	1.25				
SPACING	24.0"		JREF	1SWU487_Z02	



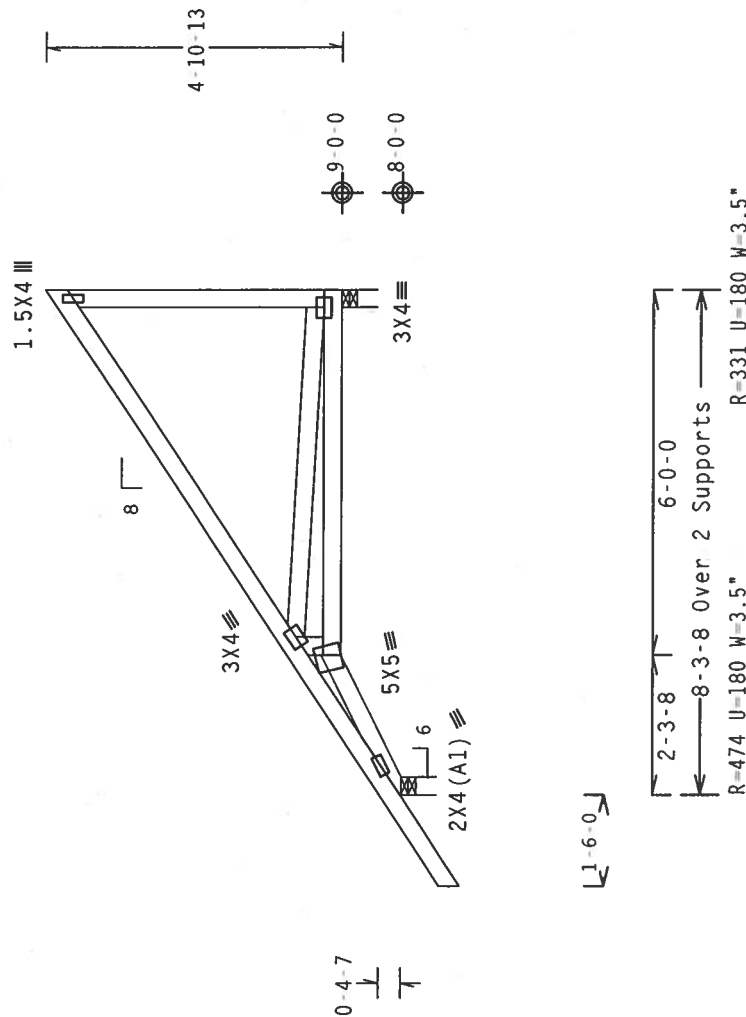
ALPINE
Alpine Engineered Products, Inc.
1550 Marley Drive
Haines City, FL 33844
Certificate of Authenticity # 567

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 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.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

Scale = .3125"/Ft.

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

ENSEMBLE: 8

7.22.19

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

20

1

Wave

PLT TYP

*WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-50 (BUILDING COMPONENT INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 SOUTH GARDEN ROAD, SUITE 200, MADISON, WI 53715, AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR ADDITIONAL INFORMATION REGARDING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHANGING.

[illegible]

ALPINE

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1950 Marley Drive
Haines City, FL 33844

Haines City, FL 33844

2

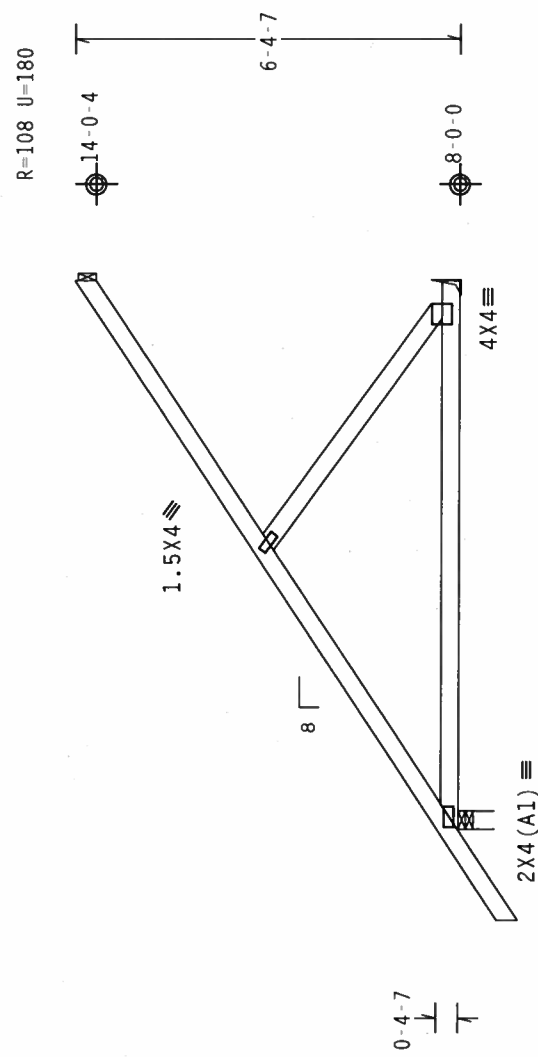
10

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

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

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

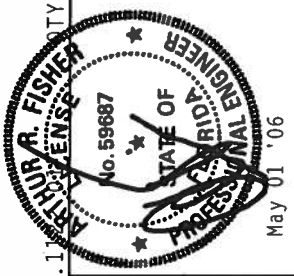
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=253 U=180 H-Simpson LU24
w/ (2) 10d, 0.148"x1.5" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X4 min. So.Pine

9-0-0 Over 3 Supports
R=498 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11



TY:5	FL/-4/-/-R/-	Scale = .3125"/Ft.
TC LL	20.0 PSF	REF R487-- 50361
TC DL	10.0 PSF	DATE 05/01/06
BC DL	10.0 PSF	DRW HCUSR487 06121093
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 22244
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SWU487_Z02

****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.

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ALPINE

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1950 Marley Drive
Haines City, FL 33844
FL C-16000 of A-16000-1000 # 567

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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)

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 (Fc-perp) IS AT LEAST THAT OF THE CHORD.



THIS DRAWING REPLACES DRAWING B139 AND CNRGBLKO699

■ **PRODUCTS.** INC. SHALL 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 TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NATIONAL DESIGN SPEC. (BY AISC) AND ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA W/H/ASD ASTM A653 GRADE 40/60 C/V/H/S/D GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERS LOCATE ON THIS DESIGN, POSITION PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE THE RESPONSIBILITY OF THE INSPECTOR. (C) SHALL SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING DESIGN. (C) SHALL SEAL ON THE TRUSS WORKING DESIGN SHOW THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC.

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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.

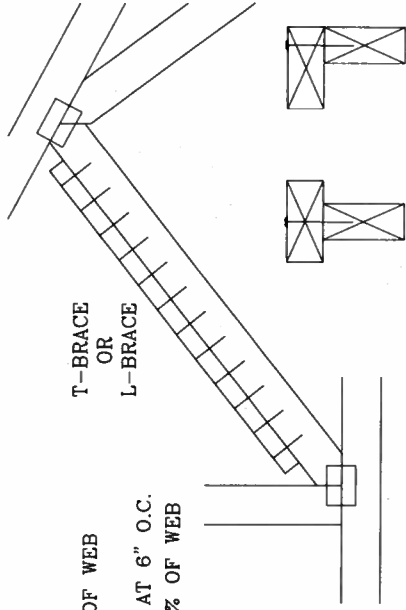
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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:

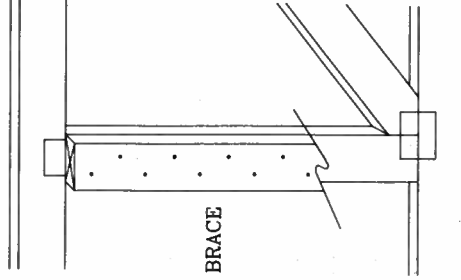
APPLY TO EITHER SIDE OF WEB
NARROW FACE
ATTACH WITH 16d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB
MEMBER LENGTH



T-BRACE
OR
L-BRACE

SCAB BRACING:

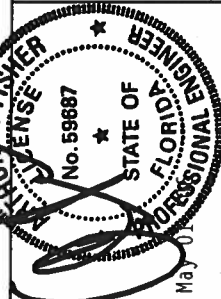
APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d OR .128"x3" GUN
NAILS AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



SCAB BRACE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

ALPINE

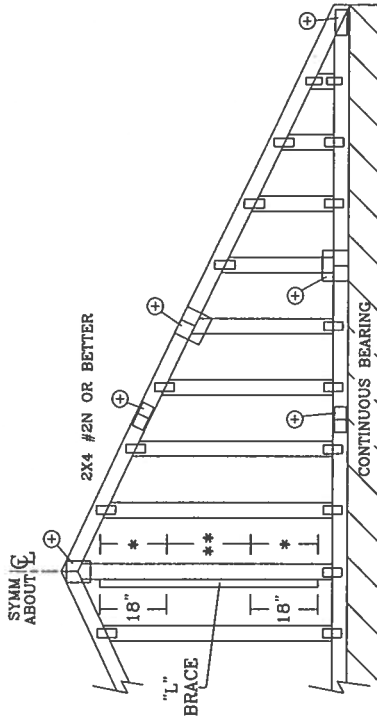
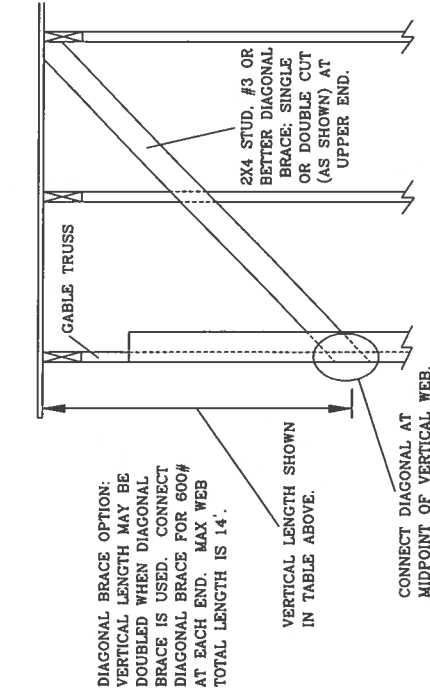


THIS DRAWING REPLACES DRAWING 579,640

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			

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH		2X4 GABLE VERTICAL SPACING		BRACE GRADE		NO BRACES	(1) 1X4 "L" BRACE *		(2) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
							GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	9' 8"	12' 5"	12' 9"	12' 5"	12' 9"	14' 0"	14' 0"
	HF	STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	9' 5"	12' 3"	12' 4"	12' 3"	12' 4"	14' 0"	14' 0"
	SP	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	9' 1"	10' 7"	10' 7"	10' 7"	10' 7"	14' 0"	14' 0"
	DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	9' 5"	10' 2"	12' 5"	13' 5"	12' 5"	13' 5"	14' 0"	14' 0"
24" O.C.	SP	#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	9' 5"	10' 2"	12' 5"	13' 5"	12' 5"	13' 5"	14' 0"	14' 0"
	DFL	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 5"	9' 11"	12' 5"	12' 8"	12' 5"	12' 8"	14' 0"	14' 0"
	SPF	STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 5"	9' 4"	10' 10"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"
	HF	STANDARD	3' 10"	5' 3"	5' 3"	7' 10"	6' 11"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	STUD	4' 4"	7' 4"	7' 4"	8' 4"	8' 4"	10' 10"	10' 10"	10' 10"	12' 11"	12' 11"	12' 11"	12' 11"	14' 0"	14' 0"
	DFL	STANDARD	4' 4"	6' 4"	6' 4"	9' 1"	9' 9"	10' 10"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	STUD	4' 6"	7' 6"	7' 6"	8' 6"	8' 6"	10' 10"	10' 10"	11' 1"	13' 3"	13' 3"	13' 3"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 5"	6' 5"	6' 5"	10' 0"	10' 0"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	4' 11"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	STUD	4' 9"	8' 5"	8' 5"	9' 7"	9' 7"	11' 11"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 9"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#2	5' 4"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

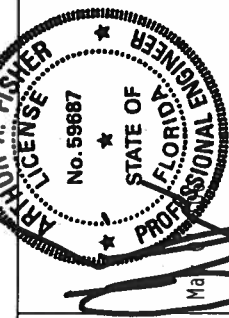


REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

CONNECT DIAGONAL AT MIDPOINT OF VERTICAL WEB.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 D'DONFRIO 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 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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REF	ASCE7-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

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).

GABLE 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" BRACE: 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	1X4 OR 2X3	2X4
	LESS THAN 4' 0"	GREATER THAN 4' 0" BUT LESS THAN 11' 6"	GREATER THAN 11' 6"
+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.			



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

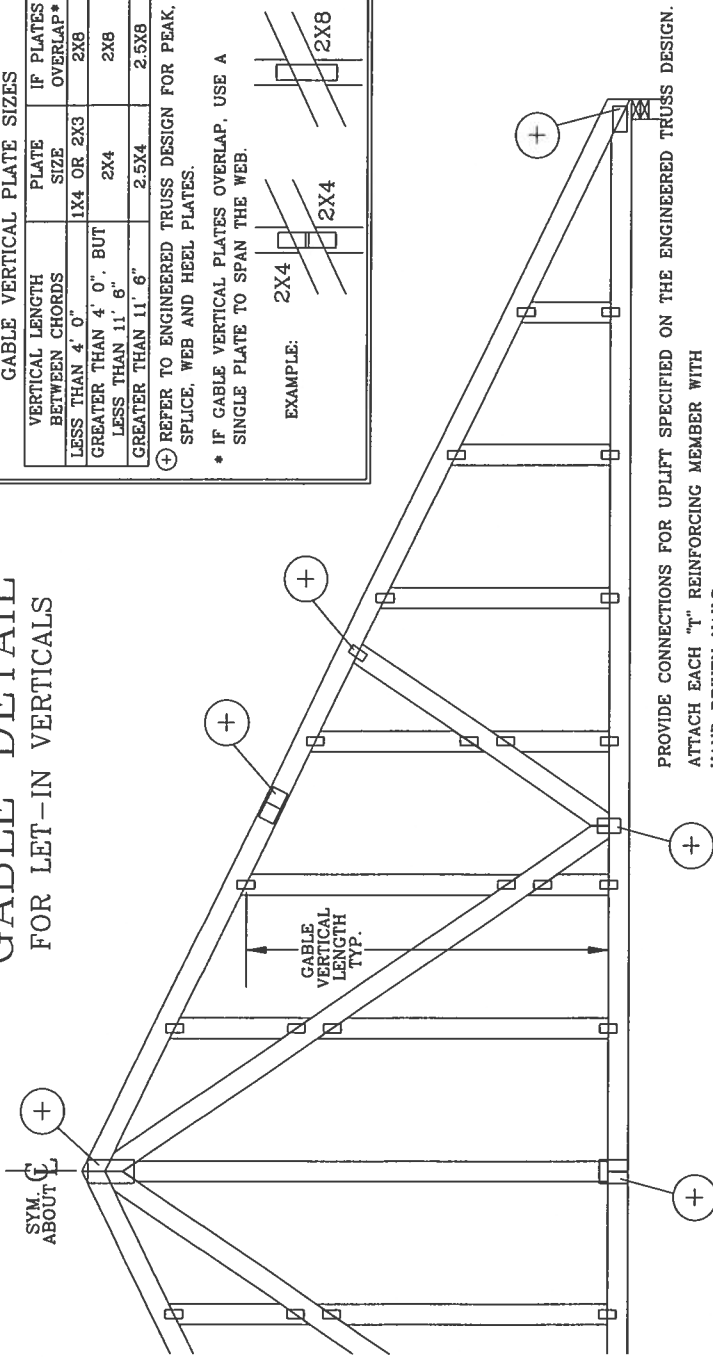
GABLE DETAIL FOR LET-IN VERTICALS

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	

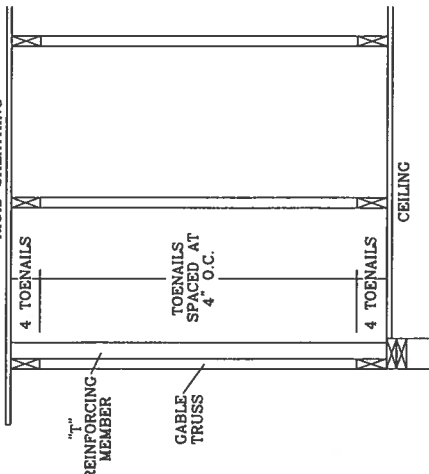
⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK,
SPICE, WEB AND HEEL PLATES.

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

EXAMPLE: 2X4 2X8 2X4 2X8



RIGID SHEATHING

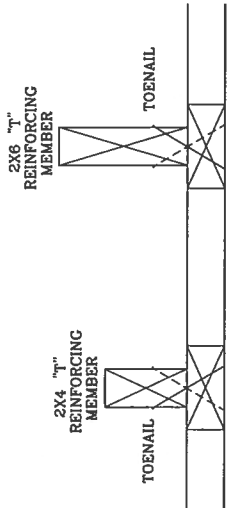


PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.
ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148" X 3.1" MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS:
8d COMMON (0.131" X 2.5" MIN) 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
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, 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 %

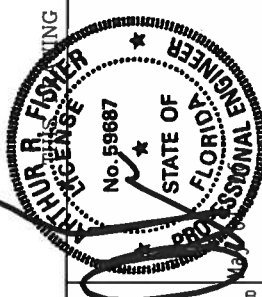
EXAMPLE:

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"

REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTN0405
-ENG	DLJ/KAR

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



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

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED
PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO
BUILD THE TRUSS IN CONFORMANCE WITH 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 (W/H/S/K) ASTM A653 GRADE
40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED
ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL
BE PER ANNEX A3 OF TPI 1-2000 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF
SUITABILITY AND ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE
DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA