

DATE06/23/2006

Columbia County Building Permit

PERMIT000024662

This Permit Expires One Year From the Date of Issue

APPLICANTLINDA RODER

PHONE386.752.2281

ADDRESS387SW KEMP COURT

LAKE CITYFL32024

OWNERSPARKS CONSTRUCTION

PHONE386.623.0575

ADDRESS209SW MORNING GLORY DRIVE

LAKE CITYFL32024

CONTRACTORJOSH SPARKS

PHONE623.0575

LOCATION OF PROPERTY

90-W TO C-341,TL TO HOPE HENRY ROAD,TR TO MORNING GLORY DR
TL AND IT'S THE 5TH LOT ON L.

TYPE DEVELOPMENTSFD/UTILITY

ESTIMATED COST OF CONSTRUCTION110800.00

HEATED FLOOR AREA2216.00

TOTAL AREA3183.00

HEIGHT22.11

STORIES1

FOUNDATIONCONC

WALLSFRAMED

ROOF PITCH8'12

FLOORCONC

LAND USE & ZONINGRSF-2

MAX. HEIGHT

Minimum Set Back Requirments:

STREET-FRONT25.00

REAR15.00

SIDE10.00

NO. EX.D.U.0

FLOOD ZONEXPP

DEVELOPMENT PERMIT NO.

PARCEL ID15-4S-16-03023-505

SUBDIVISIONROLLING MEADOWS

LOT5

BLOCK

PHASE

UNIT

TOTAL ACRES0.51

000001128

SBC1252260

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

18"X32"MITERED

06-0565-N

BLK

JTH

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS:

NOC ON FILE. PREVENTATIVE TREATMENT REPORT REC'D.

PLAT REQUIRES MFE OF 105.0'. ELEVATION LETTER REQUIRED.

Check # or Cash3423

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power

Foundation

Monolithic

date/app. by

date/app. by

date/app. by

Under slab rough-in plumbing

Slab

Sheathing/Nailing

date/app. by

date/app. by

date/app. by

Framing

Rough-in plumbing above slab and below wood floor

date/app. by

date/app. by

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

date/app. by

date/app. by

date/app. by

Permanent power

C.O. Final

Culvert

date/app. by

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

Pool

date/app. by

date/app. by

Reconnection

Pump pole

Utility Pole

date/app. by

date/app. by

date/app. by

M/H Pole

Travel Trailer

Re-roof

date/app. by

date/app. by

date/app. by

BUILDING PERMIT FEE \$555.00

CERTIFICATION FEE \$15.92

SURCHARGE FEE \$15.92

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 FEE686.84

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 INCONVENIENCE, 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.

Lot 5
Rolling Meadows

Contacted on 6/21/06 Linda
LH

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0606-21 Date Received 6/7/06 By LG Permit # 1128/24652
Application Approved by - Zoning Official BLK Date 6.06.06 Plans Examiner OK JTH Date 6-14-06
Flood Zone Rev plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res Low Dev.
Comments Plat Requires m2E of 105 ft. Elevation Letter Required

Applicants Name Linda Roder Phone 386-752-2281
Address 387 S.W. Kemp Ct, Lake City FL 32024
Owners Name Sparks Contractors Inc. Phone 622-0575
911 Address 209 S.W. Morning Glory Dr Lake City FL 32024
Contractors Name Josh Sparks Phone _____
Address P.O.B. 1479 Lake City FL 32056
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Ben Sparks/Mark Disoway
Mortgage Lenders Name & Address People's State Bank

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 15-45-16-03023-505 Estimated Cost of Construction 150K
Subdivision Name Rolling Meadows R Lot 5 Block _____ Unit _____ Phase _____
Driving Directions 90 W to C - 341, X on Hope Henry Rd, turn R on Morning Glory Drive, Sth Lot down on L

Type of Construction SFD Number of Existing Dwellings on Property 0
Total Acreage _____ Lot Size .51 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 35' Side 26' Side 26' Rear 77'
Total Building Height 22-11" Number of Stories 1 Heated Floor Area 2216 Roof Pitch 8-12
Porch 464 G.A.C.A. 503 TOTAL 3183

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.

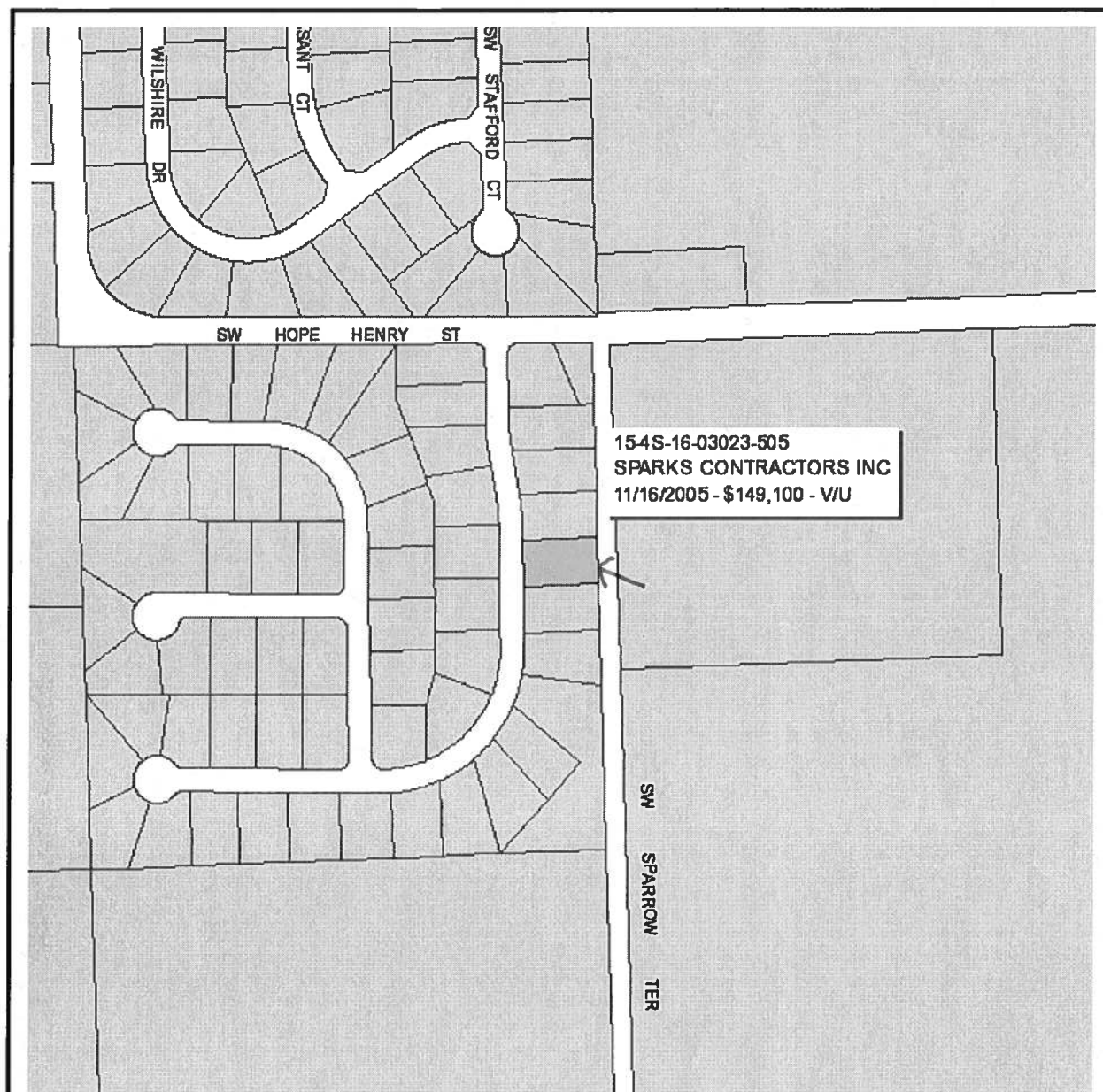
Owner Builder or Agent (Including Contractor) Linda R. Roder
Commission # DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 10 day of Feb 20 06.
Personally known ✓ or Produced Identification _____

Contractor Signature [Signature]
Contractors License Number CBC 1252260
Competency Card Number _____
NOTARY STAMP/SEAL

Notary Signature [Signature]



Columbia County Property Appraiser

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

PARCEL: 15-4S-16-03023-505 - VACANT (000000)

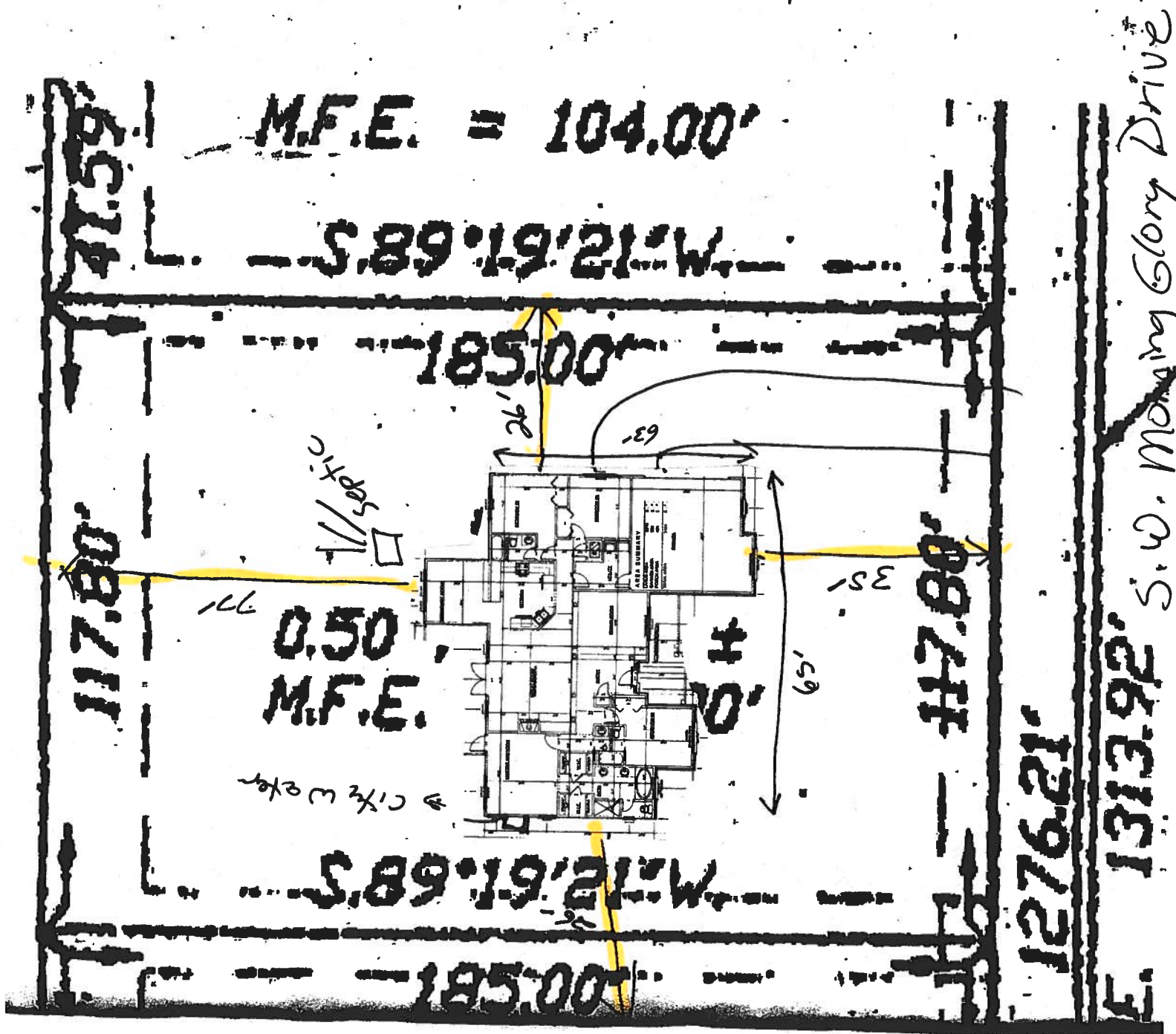
Name: SPARKS CONTRACTORS INC	LandVal	\$34,000.00
Site: MORNING GLORY	BldgVal	\$0.00
Mail: 162 SW COUNTRY COURT	ApprVal	\$34,000.00
LAKE CITY, FL 32024	JustVal	\$34,000.00
Sales 11/16/2005 \$149,100.00V / U	Assd	\$34,000.00
Info 11/16/2005 \$139,500.00V / U	Exmpt	\$0.00
	Taxable	\$34,000.00

0 170 340 510 ft



This information, GIS Map Updated: 5/5/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Lot 5 Rolling Meadows
 Sparks Construction
 15-45-16-03023-505

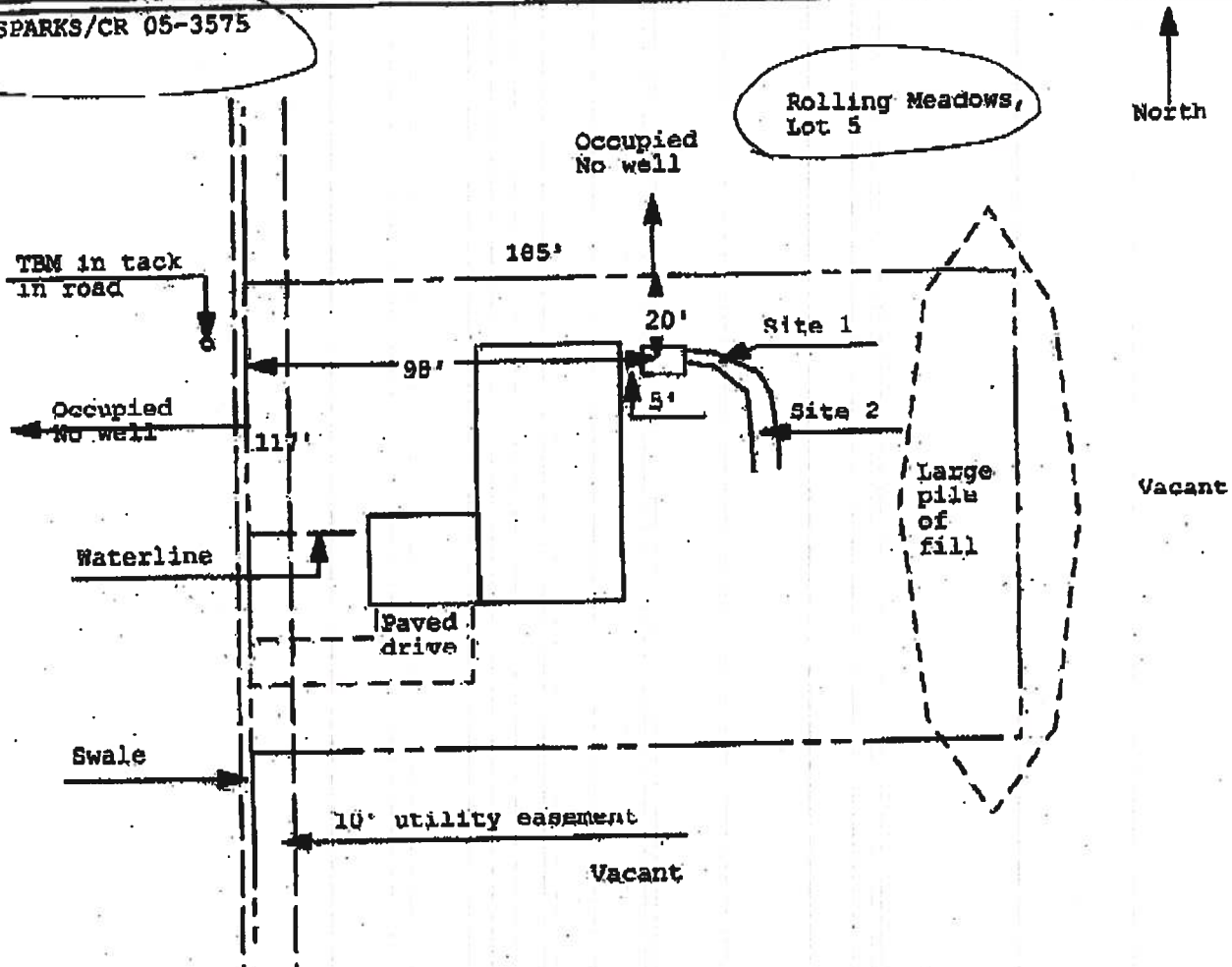


ck# 3423

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0565N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SPARKS/CR 05-3575



1 inch = 40 feet

Site Plan Submitted By Paul L. [Signature]

Plan Approved ☒ Not Approved ☐

Date 6.21.04

By Sally Haddy, ESII

Notes:

Columbia CHD

CFHU



Phone (386) 755-3611

Fax (386) 752-5381

Notice of Intent for Preventative Treatment for Termites

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

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

Lot 5 Rolling Meadows, 209 SW Morning Glory Dr., Lake City, FL

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

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

Application onto Structural Wood

Description of Treatment

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

Celia Drayton
Authorized Signature

2-20-06
Date

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	511292SparksConstruction	Builder:	
Address:	Lot: 5, Sub: Rolling Meadows, Plat:	Permitting Office:	COLUMBIA
City, State:	, FL	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	221006
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 46.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2216 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 46.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 7.30
(or Single or Double DEFAULT)	7a. (Dble Default) 320.0 ft²	b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 320.0 ft²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 243.0(p) ft		EF: 0.93
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 1563.0 ft²	DHP-Dedicated heat pump)	
b. Frame, Wood, Adjacent	R=13.0, 214.0 ft²	15. HVAC credits	
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 2216.0 ft²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft		
b. N/A			

Glass/Floor Area: 0.14

Total as-built points: 32440

Total base points: 33751

PASS

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

PREPARED BY: [Signature]

DATE: 1-18-06

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

OWNER/AGENT: [Signature]

DATE: 6-20-06

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: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC Overhang Ornt Len Hgt Area X SPM X SOF = Points							
.18	2216.0	20.04	7993.6	Double, Clear	S	1.5	6.0	60.0	35.87	0.86	1842.5
				Double, Clear	S	12.3	9.0	30.0	35.87	0.48	518.2
				Double, Clear	S	12.3	7.0	30.0	35.87	0.46	492.1
				Double, Clear	S	1.5	0.0	20.0	35.87	0.43	309.8
				Double, Clear	S	1.5	0.0	15.0	35.87	0.43	232.4
				Double, Clear	W	1.5	6.0	30.0	38.52	0.91	1055.6
				Double, Clear	N	7.0	7.0	30.0	19.20	0.71	409.5
				Double, Clear	N	7.0	2.0	6.0	19.20	0.59	68.3
				Double, Clear	N	10.0	9.0	14.0	19.20	0.69	186.4
				Double, Clear	N	10.0	2.0	5.0	19.20	0.59	56.9
				Double, Clear	N	1.5	0.0	30.0	19.20	0.59	341.6
				Double, Clear	N	1.5	5.5	16.0	19.20	0.93	285.2
				Double, Clear	E	1.5	3.5	4.0	42.06	0.78	130.5
				Double, Clear	E	1.5	6.5	30.0	42.06	0.93	1169.2
				As-Built Total: 320.0 7098.2							
WALL TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Adjacent	214.0	0.70	149.8	Frame, Wood, Exterior			13.0	1563.0	1.50		2344.5
Exterior	1563.0	1.70	2657.1	Frame, Wood, Adjacent			13.0	214.0	0.60		128.4
Base Total: 1777.0 2806.9				As-Built Total: 1777.0 2472.9							
DOOR TYPES Area X BSPM = Points				Type Area X SPM = Points							
Adjacent	20.0	1.60	32.0	Exterior Insulated				30.0	4.10		123.0
Exterior	50.0	4.10	205.0	Exterior Insulated				20.0	4.10		82.0
				Adjacent Insulated				20.0	1.60		32.0
Base Total: 70.0 237.0				As-Built Total: 70.0 237.0							
CEILING TYPES Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points							
Under Attic	2216.0	1.73	3833.7	Under Attic			30.0	2216.0	1.73 X 1.00		3833.7
Base Total: 2216.0 3833.7				As-Built Total: 2216.0 3833.7							
FLOOR TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Slab	243.0(p)	-37.0	-8991.0	Slab-On-Grade Edge Insulation			0.0	243.0(p)	-41.20		-10011.6
Raised	0.0	0.00	0.0								
Base Total: -8991.0				As-Built Total: 243.0 -10011.6							

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
2216.0 10.21 22625.4				2216.0 10.21 22625.4			
Summer Base Points: 28505.5				Summer As-Built Points: 26255.6			
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X Duct Multiplier X System Multiplier X Credit Multiplier = Cooling Points
28505.5		0.4266	12160.4	(sys 1: Central Unit 46000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 26256	1.00	(1.09 x 1.147 x 0.91)	0.310 1.000 9268.2
28505.5		0.4266	12160.4	26255.6	1.00	1.138	0.310 1.000 9268.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

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	2216.0	12.74	5081.7	Double, Clear	S	1.5	6.0	60.0	13.30	1.12	891.7
				Double, Clear	S	12.3	9.0	30.0	13.30	3.18	1267.5
				Double, Clear	S	12.3	7.0	30.0	13.30	3.46	1378.5
				Double, Clear	S	1.5	0.0	20.0	13.30	3.66	973.4
				Double, Clear	S	1.5	0.0	15.0	13.30	3.66	730.0
				Double, Clear	W	1.5	6.0	30.0	20.73	1.02	636.4
				Double, Clear	N	7.0	7.0	30.0	24.58	1.02	750.8
				Double, Clear	N	7.0	2.0	6.0	24.58	1.03	151.5
				Double, Clear	N	10.0	9.0	14.0	24.58	1.02	350.8
				Double, Clear	N	10.0	2.0	5.0	24.58	1.03	126.2
				Double, Clear	N	1.5	0.0	30.0	24.58	1.03	757.5
				Double, Clear	N	1.5	5.5	16.0	24.58	1.00	394.4
				Double, Clear	E	1.5	3.5	4.0	18.79	1.09	82.2
				Double, Clear	E	1.5	6.5	30.0	18.79	1.03	581.1
				As-Built Total:				320.0		9072.1	
WALL TYPES Area X BWPM = Points				Type		R-Value		Area X WPM = Points			
Adjacent	214.0	3.60	770.4	Frame, Wood, Exterior		13.0		1563.0	3.40	5314.2	
Exterior	1563.0	3.70	5783.1	Frame, Wood, Adjacent		13.0		214.0	3.30	706.2	
Base Total:		1777.0	6553.5	As-Built Total:				1777.0	6020.4		
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	20.0	8.00	160.0	Exterior Insulated				30.0	8.40	252.0	
Exterior	50.0	8.40	420.0	Exterior Insulated				20.0	8.40	168.0	
				Adjacent Insulated				20.0	8.00	160.0	
Base Total:		70.0	580.0	As-Built Total:				70.0	580.0		
CEILING TYPES Area X BWPM = Points				Type		R-Value		Area X WPM X WCM = Points			
Under Attic	2216.0	2.05	4542.8	Under Attic		30.0		2216.0	2.05 X 1.00	4542.8	
Base Total:		2216.0	4542.8	As-Built Total:				2216.0	4542.8		
FLOOR TYPES Area X BWPM = Points				Type		R-Value		Area X WPM = Points			
Slab	243.0(p)	8.9	2162.7	Slab-On-Grade Edge Insulation		0.0		243.0(p)	18.80	4568.4	
Raised	0.0	0.00	0.0								
Base Total:		2162.7		As-Built Total:				243.0	4568.4		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE			AS-BUILT			
INFILTRATION	Area X	BWPM = Points	Area X	WPM	=	Points
	2216.0	-0.59 -1307.4		2216.0	-0.59	-1307.4
Winter Base Points: 17613.3			Winter As-Built Points: 23476.3			
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
17613.3	0.6274	11050.6	(sys 1: Electric Heat Pump 46000 btuh ,EFF(7.3) Ducts:Unc(S),Unc(R),Int(AH),R6.0 23476.3	1.000 (1.069 x 1.169 x 0.93)	0.467	1.000 12744.9
			23476.3	1.00	1.162	0.467 1.000 12744.9

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Ratio	Tank X Multiplier X Credit	= Total Multiplier
4		2635.00	10540.0	40.0	0.93	4	1.00	2606.67	1.00 10426.7
				As-Built Total:					10426.7

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
12160		11051		10540 33751	9268		12745		10427 32440

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.8

The higher the score, the more efficient the home.

Spec House, Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 46.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 11.00
4. Number of Bedrooms	4	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	2216 ft ²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___		___
a. U-factor:	Description Area		13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 320.0 ft ²	___	a. Electric Heat Pump	Cap: 46.0 kBtu/hr
b. SHGC:		___		HSPF: 7.30
(or Clear or Tint DEFAULT)	7b. (Clear) 320.0 ft ²	___	b. N/A	___
8. Floor types		___	c. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 243.0(p) ft	___		___
b. N/A		___	14. Hot water systems	
c. N/A		___	a. Electric Resistance	Cap: 40.0 gallons
9. Wall types		___		EF: 0.93
a. Frame, Wood, Exterior	R=13.0, 1563.0 ft ²	___	b. N/A	___
b. Frame, Wood, Adjacent	R=13.0, 214.0 ft ²	___		___
c. N/A		___	c. Conservation credits	___
d. N/A		___	(HR-Heat recovery, Solar	
e. N/A		___	DHP-Dedicated heat pump)	
10. Ceiling types		___	15. HVAC credits	___
a. Under Attic	R=30.0, 2216.0 ft ²	___	(CF-Ceiling fan, CV-Cross ventilation,	
b. N/A		___	HF-Whole house fan,	
c. N/A		___	PT-Programmable Thermostat,	
11. Ducts		___	MZ-C-Multizone cooling,	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft	___	MZ-H-Multizone heating)	
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: FLR2PB v4.1)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001128

DATE 06/23/2006 PARCEL ID # 15-4S-16-03023-505

APPLICANT LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER SPARKS CONSTRUCTION PHONE 386.623.0575

ADDRESS 209 SW MORNING GLORY DRIVE LAKE CITY FL 32024

CONTRACTOR JOSH SPARKS PHONE 623.0575

LOCATION OF PROPERTY 90-W TO C-341, TL TO HOPE HENRY ROAD, TR TO MORNING GLORY DRIVE

TL AND IT'S THE 5TH LOT ON THE L.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 5

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 INSTALLATION 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





BAILEY BISHOP & LANE, INC.

Engineers

Surveyors

Planners

August 4, 2006

24662

Mr. Josh Sparks
162 SW Country Court
Lake City, Florida 32024

RE: Flood Statement Letter

Dear Mr. Sparks:

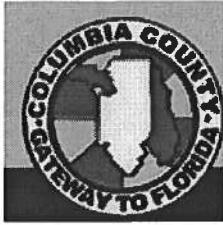
We have performed a vertical survey on the structure located on Lot 5, Rolling Meadows, Columbia County, Florida and have determined the following:

- That subdivision plat requires that the minimum finish floor elevation be 105.00'.
- That the field located finish floor elevation is 106.99', being 1.99' above the required elevation.

Should you have any questions, please do not hesitate to give me a call.

Sincerely,

Brian Scott Daniel, PSM
Director of Surveying
BAILEY, BISHOP & LANE, INC.



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

Reference to a building permit application Number: **0606-21**

Contractor: Sparks Construction Owner Sparks Construction Lot 5 Rolling Meadows Subdivision.

On the date of June 15, 2006 application 0606-21 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0606-21 when making reference to this application.

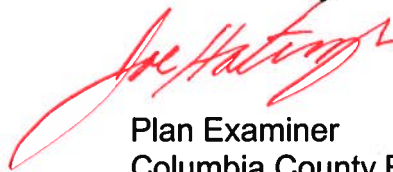
This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

To help ensure compliance with the Florida Residential Code 2004 the comments below need to be addressed on the plans.

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.

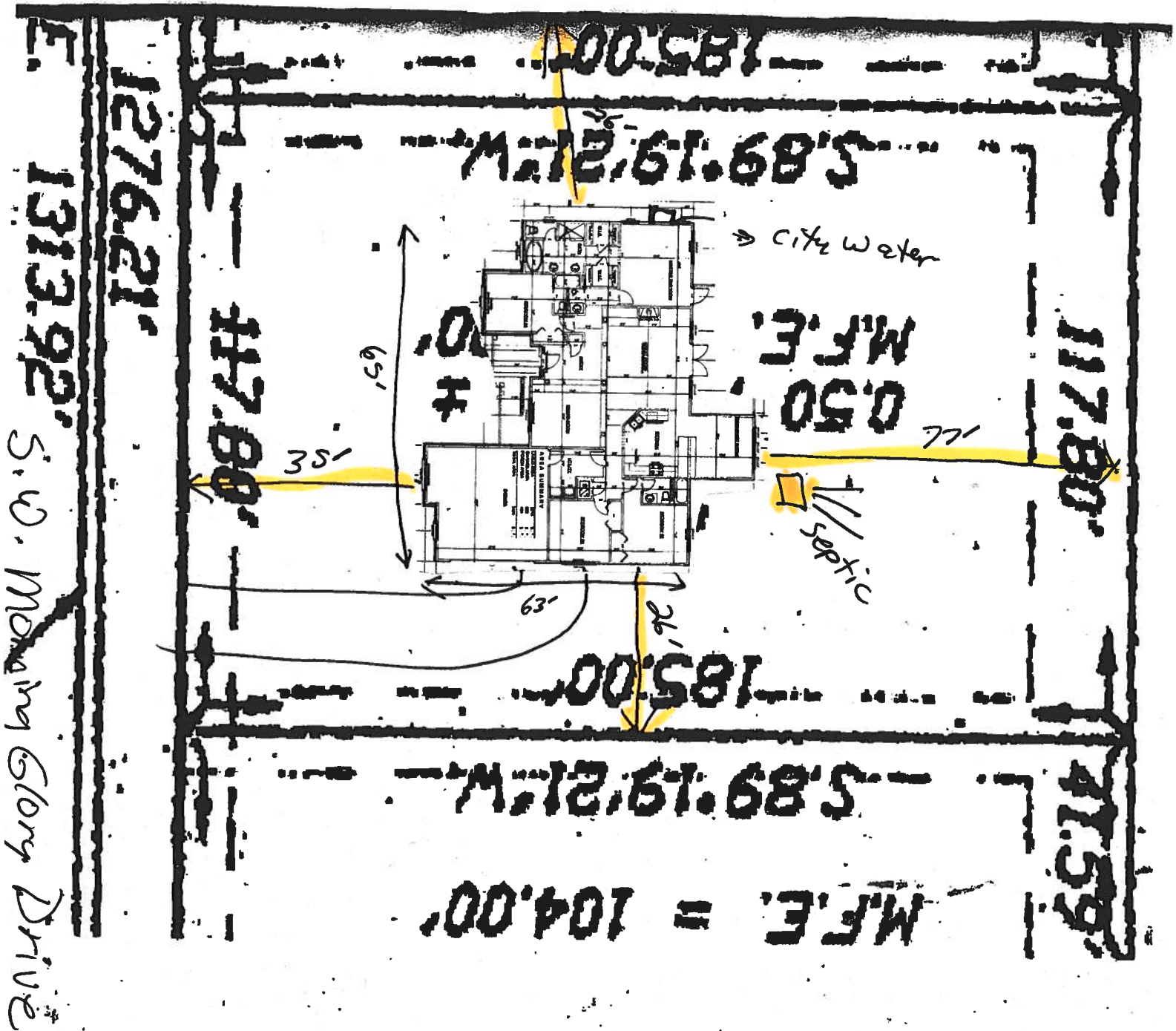
- 2.** Please submit a recorded (with the Columbia County Clerk Office) notice of commencement before any inspections can be preformed by the Columbia County Building Department.
- 3.** The electrical plan shows the location of the electrical service, Please indicate on the electrical plan that an overcurrent protection device will be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Joe Haltiwanger



Plan Examiner
Columbia County Building Department

Lot 5 Rolling Meadows
Sparks Construction
15-45-16-03023-SOS



Residential System Sizing Calculation

Summary

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

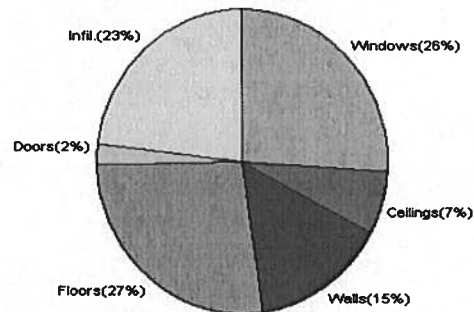
1/18/2006

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	39158 Btuh	Total cooling load calculation	33041 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.5 46000	Sensible (SHR = 0.75)	124.5 34500
Heat Pump + Auxiliary(0.0kW)	117.5 46000	Latent	215.6 11500
		Total (Electric Heat Pump)	139.2 46000

WINTER CALCULATIONS

Winter Heating Load (for 2216 sqft)

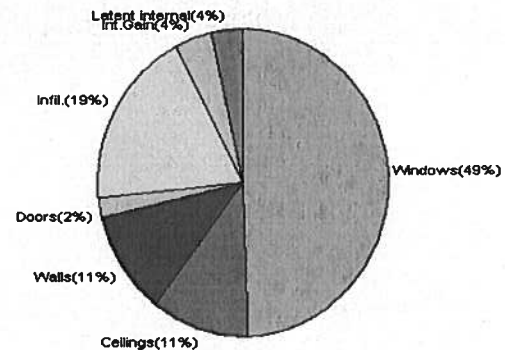
Load component		Load	
Window total	320 sqft	10301	Btuh
Wall total	1777 sqft	5836	Btuh
Door total	70 sqft	907	Btuh
Ceiling total	2216 sqft	2611	Btuh
Floor total	243 sqft	10609	Btuh
Infiltration	220 cfm	8894	Btuh
Duct loss		0	Btuh
Subtotal		39158	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		39158	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2216 sqft)

Load component		Load	
Window total	320 sqft	16283	Btuh
Wall total	1777 sqft	3583	Btuh
Door total	70 sqft	686	Btuh
Ceiling total	2216 sqft	3670	Btuh
Floor total		0	Btuh
Infiltration	113 cfm	2105	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		27707	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		4134	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		5334	Btuh
TOTAL HEAT GAIN		33041	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 1-18-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

1/18/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
9	2, Clear, Metal, 0.87	SE	14.0	32.2	451 Btuh
10	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
11	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	SE	16.0	32.2	515 Btuh
13	2, Clear, Metal, 0.87	SW	4.0	32.2	129 Btuh
14	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
Window Total			320(sqft)		10301 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1563	3.3	5133 Btuh
2	Frame - Wood - Adj(0.09)	13.0	214	3.3	703 Btuh
Wall Total			1777		5836 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		30	12.9	388 Btuh
Door Total			70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2216	1.2	2611 Btuh
Ceiling Total			2216		2611Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	243.0 ft(p)	43.7	10609 Btuh
Floor Total			243		10609 Btuh
Zone Envelope Subtotal:					30264 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	19962	219.6	8894 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				39158 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	39158 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	39158 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:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

1/18/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
9	2, Clear, Metal, 0.87	SE	14.0	32.2	451 Btuh
10	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
11	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	SE	16.0	32.2	515 Btuh
13	2, Clear, Metal, 0.87	SW	4.0	32.2	129 Btuh
14	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
Window Total			320(sqft)		10301 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1563	3.3	5133 Btuh
2	Frame - Wood - Adj(0.09)	13.0	214	3.3	703 Btuh
Wall Total			1777		5836 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		30	12.9	388 Btuh
Door Total			70		907 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2216	1.2	2611 Btuh
Ceiling Total			2216		2611 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	243.0 ft(p)	43.7	10609 Btuh
Floor Total			243		10609 Btuh
Zone Envelope Subtotal:					30264 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.66	19962	219.6	8894 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				39158 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	39158 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	39158 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:

Class 3 Rating

, FL

511292SparksConstruction

Registration No. 0

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

1/18/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	60.0	0.0	60.0	29	60	3602	Btuh
2	2, Clear, 0.87, None,N,N	NW	12.3	9ft.	30.0	0.0	30.0	29	60	1801	Btuh
3	2, Clear, 0.87, None,N,N	NW	12.3	7ft.	30.0	0.0	30.0	29	60	1801	Btuh
4	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	20.0	0.0	20.0	29	60	1201	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	15.0	0.0	15.0	29	60	901	Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
7	2, Clear, 0.87, None,N,N	SE	7ft.	7ft.	30.0	30.0	0.0	29	63	869	Btuh
8	2, Clear, 0.87, None,N,N	SE	7ft.	2ft.	6.0	6.0	0.0	29	63	174	Btuh
9	2, Clear, 0.87, None,N,N	SE	10ft.	9ft.	14.0	14.0	0.0	29	63	405	Btuh
10	2, Clear, 0.87, None,N,N	SE	10ft.	2ft.	5.0	5.0	0.0	29	63	145	Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft	0ft.	30.0	30.0	0.0	29	63	869	Btuh
12	2, Clear, 0.87, None,N,N	SE	1.5ft	5.5ft	16.0	4.1	11.9	29	63	863	Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft	3.5ft	4.0	2.0	2.0	29	63	181	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft	6.5ft	30.0	6.1	23.9	29	63	1670	Btuh
Window Total					320 (sqft)					16283 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			1563.0		2.1		3260 Btuh		
2	Frame - Wood - Adj	13.0/0.09			214.0		1.5		323 Btuh		
Wall Total					1777 (sqft)				3583 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				20.0		9.8		196 Btuh		
2	Insulated - Exterior				20.0		9.8		196 Btuh		
3	Insulated - Exterior				30.0		9.8		294 Btuh		
Door Total					70 (sqft)				686 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			2216.0		1.7		3670 Btuh		
Ceiling Total					2216 (sqft)				3670 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			243 (ft(p))		0.0		0 Btuh		
Floor Total					243.0 (sqft)				0 Btuh		
Zone Envelope Subtotal:										24222 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load		
	SensibleNatural	0.34			19962		113.1		2105 Btuh		
Internal gain	Occupants			Btuh/occupant		Appliance		Load			
	6			X 230 +		0		1380 Btuh			
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										27707 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	27707 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	27707 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	27707 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4134 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	5334 Btuh
	TOTAL GAIN	33041 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))
 (Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

Project Title:

Class 3 Rating

511292SparksConstruction

Registration No. 0

, FL

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

1/18/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	60.0	0.0	60.0	29	60	3602	Btuh
2	2, Clear, 0.87, None,N,N	NW	12.3	9ft.	30.0	0.0	30.0	29	60	1801	Btuh
3	2, Clear, 0.87, None,N,N	NW	12.3	7ft.	30.0	0.0	30.0	29	60	1801	Btuh
4	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	20.0	0.0	20.0	29	60	1201	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	15.0	0.0	15.0	29	60	901	Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
7	2, Clear, 0.87, None,N,N	SE	7ft.	7ft.	30.0	30.0	0.0	29	63	869	Btuh
8	2, Clear, 0.87, None,N,N	SE	7ft.	2ft.	6.0	6.0	0.0	29	63	174	Btuh
9	2, Clear, 0.87, None,N,N	SE	10ft.	9ft.	14.0	14.0	0.0	29	63	405	Btuh
10	2, Clear, 0.87, None,N,N	SE	10ft.	2ft.	5.0	5.0	0.0	29	63	145	Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft	0ft.	30.0	30.0	0.0	29	63	869	Btuh
12	2, Clear, 0.87, None,N,N	SE	1.5ft	5.5ft	16.0	4.1	11.9	29	63	863	Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft	3.5ft	4.0	2.0	2.0	29	63	181	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft	6.5ft	30.0	6.1	23.9	29	63	1670	Btuh
	Window Total				320 (sqft)					16283 Btuh	
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext		13.0/0.09		1563.0			2.1		3260 Btuh	
2	Frame - Wood - Adj		13.0/0.09		214.0			1.5		323 Btuh	
	Wall Total				1777 (sqft)					3583 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				30.0			9.8		294 Btuh	
	Door Total				70 (sqft)					686 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		2216.0			1.7		3670 Btuh	
	Ceiling Total				2216 (sqft)					3670 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		0.0		243 (ft(p))			0.0		0 Btuh	
	Floor Total				243.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									24222 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural		0.34		19962			113.1		2105 Btuh	
Internal gain			Occupants		Btuh/occupant			Appliance		Load	
			6		X 230 +			0		1380 Btuh	
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									27707 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	27707 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	27707 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	27707 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4134 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	5334 Btuh
	TOTAL GAIN	33041 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))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House

, FL

Project Title:
511292SparksConstruction

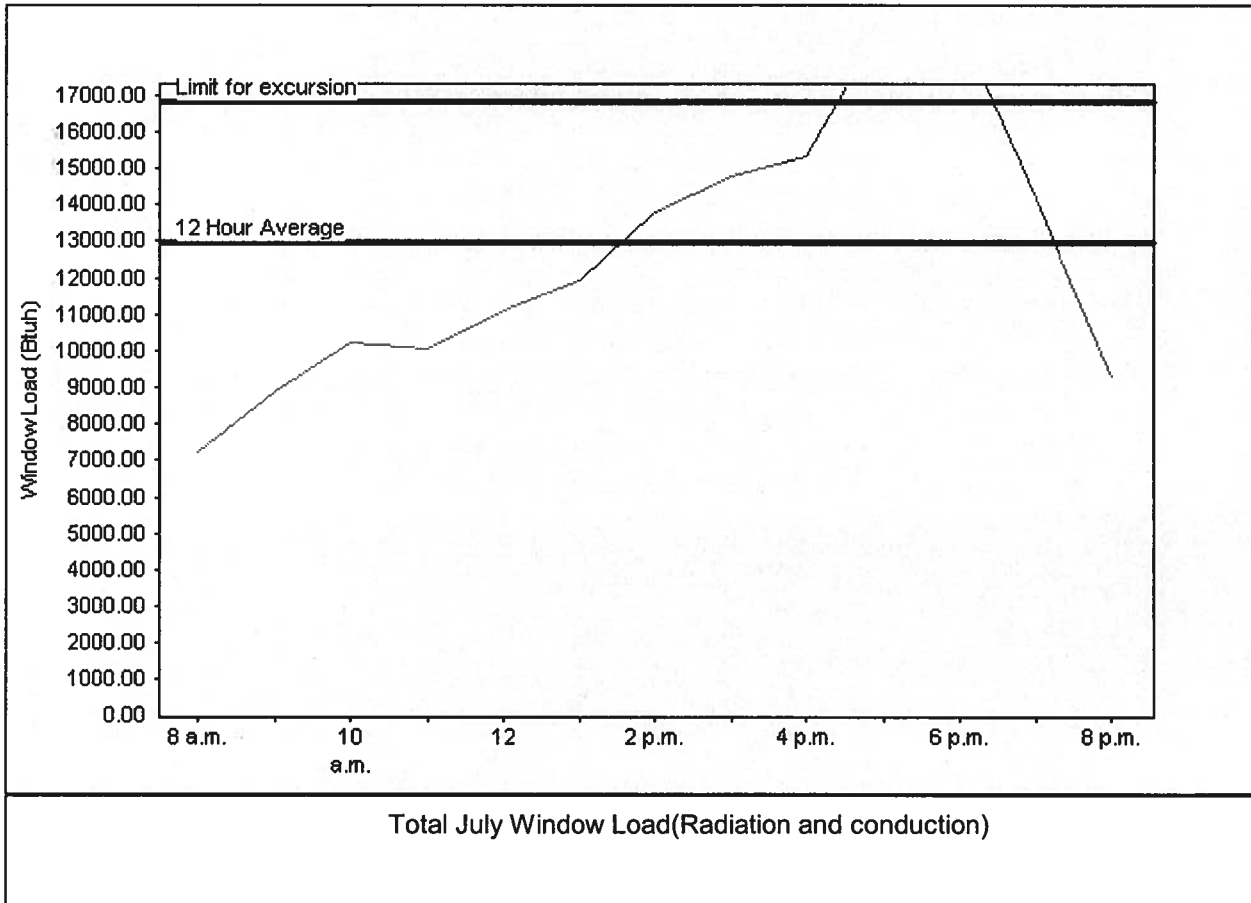
Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	12947 Btu
Summer setpoint	75 F	Peak window load for July	19088 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	16831 Btu
Latitude	29 North	Window excursion (July)	2257 Btu

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: 1-18-06

EnergyGauge® FLR2PB v4.1



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	511292SparksConstruction	Builder:	
Address:	Lot: 5, Sub: Rolling Meadows, Plat:	Permitting Office:	
City, State:	, FL	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 46.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2216 ft²		
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: 46.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 320.0 ft²		HSPF: 7.30
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 320.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 243.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1563.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 214.0 ft²	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, 2216.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft		
b. N/A			

Glass/Floor Area: 0.14

Total as-built points: 32440

Total base points: 33751

PASS

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

PREPARED BY: Yeon G. Kim

DATE: 1-18-06

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

OWNER/AGENT: Shirley Page

DATE: 6-20-06

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: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area											
				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	2216.0	20.04	7993.6	Double, Clear	S	1.5	6.0	60.0	35.87	0.86	1842.5
				Double, Clear	S	12.3	9.0	30.0	35.87	0.48	518.2
				Double, Clear	S	12.3	7.0	30.0	35.87	0.46	492.1
				Double, Clear	S	1.5	0.0	20.0	35.87	0.43	309.8
				Double, Clear	S	1.5	0.0	15.0	35.87	0.43	232.4
				Double, Clear	W	1.5	6.0	30.0	38.52	0.91	1055.6
				Double, Clear	N	7.0	7.0	30.0	19.20	0.71	409.5
				Double, Clear	N	7.0	2.0	6.0	19.20	0.59	68.3
				Double, Clear	N	10.0	9.0	14.0	19.20	0.69	186.4
				Double, Clear	N	10.0	2.0	5.0	19.20	0.59	56.9
				Double, Clear	N	1.5	0.0	30.0	19.20	0.59	341.6
				Double, Clear	N	1.5	5.5	16.0	19.20	0.93	285.2
				Double, Clear	E	1.5	3.5	4.0	42.06	0.78	130.5
				Double, Clear	E	1.5	6.5	30.0	42.06	0.93	1169.2
				As-Built Total:				320.0		7098.2	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	214.0	0.70	149.8	Frame, Wood, Exterior	13.0		1563.0	1.50		2344.5	
Exterior	1563.0	1.70	2657.1	Frame, Wood, Adjacent	13.0		214.0	0.60		128.4	
Base Total: 1777.0 2806.9				As-Built Total:				1777.0		2472.9	
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	20.0	1.60	32.0	Exterior Insulated	30.0 4.10 123.0						
Exterior	50.0	4.10	205.0	Exterior Insulated	20.0 4.10 82.0						
				Adjacent Insulated	20.0 1.60 32.0						
Base Total: 70.0 237.0				As-Built Total:				70.0		237.0	
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	2216.0	1.73	3833.7	Under Attic	30.0		2216.0	1.73 X 1.00		3833.7	
Base Total: 2216.0 3833.7				As-Built Total:				2216.0		3833.7	
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	243.0(p)	-37.0	-8991.0	Slab-On-Grade Edge Insulation	0.0		243.0(p)	-41.20		-10011.6	
Raised	0.0	0.00	0.0								
Base Total: -8991.0				As-Built Total:				243.0		-10011.6	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT						
INFILTRATION Area X BSPM = Points				Area X SPM = Points						
2216.0 10.21 22625.4				2216.0 10.21 22625.4						
Summer Base Points: 28505.5				Summer As-Built Points: 26255.6						
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (System - Points)	X System Multiplier (DM x DSM x AHU)	X Credit Multiplier	= Cooling Points
28505.5		0.4266	12160.4	(sys 1: Central Unit 46000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 26256 1.00 (1.09 x 1.147 x 0.91) 0.310 1.000 9268.2 26255.6 1.00 1.138 0.310 1.000 9268.2						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Overhang Type/SC Ornt Len Hgt Area X WPM X WOF = Points							
.18	2216.0	12.74	5081.7	Double, Clear	S	1.5	6.0	60.0	13.30	1.12	891.7
				Double, Clear	S	12.3	9.0	30.0	13.30	3.18	1267.5
				Double, Clear	S	12.3	7.0	30.0	13.30	3.46	1378.5
				Double, Clear	S	1.5	0.0	20.0	13.30	3.66	973.4
				Double, Clear	S	1.5	0.0	15.0	13.30	3.66	730.0
				Double, Clear	W	1.5	6.0	30.0	20.73	1.02	636.4
				Double, Clear	N	7.0	7.0	30.0	24.58	1.02	750.8
				Double, Clear	N	7.0	2.0	6.0	24.58	1.03	151.5
				Double, Clear	N	10.0	9.0	14.0	24.58	1.02	350.8
				Double, Clear	N	10.0	2.0	5.0	24.58	1.03	126.2
				Double, Clear	N	1.5	0.0	30.0	24.58	1.03	757.5
				Double, Clear	N	1.5	5.5	16.0	24.58	1.00	394.4
				Double, Clear	E	1.5	3.5	4.0	18.79	1.09	82.2
				Double, Clear	E	1.5	6.5	30.0	18.79	1.03	581.1
				As-Built Total: 320.0 9072.1							
WALL TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Adjacent	214.0	3.60	770.4	Frame, Wood, Exterior				13.0	1563.0	3.40	5314.2
Exterior	1563.0	3.70	5783.1	Frame, Wood, Adjacent				13.0	214.0	3.30	706.2
Base Total: 1777.0 6553.5				As-Built Total: 1777.0 6020.4							
DOOR TYPES Area X BWPM = Points				Type Area X WPM = Points							
Adjacent	20.0	8.00	160.0	Exterior Insulated					30.0	8.40	252.0
Exterior	50.0	8.40	420.0	Exterior Insulated					20.0	8.40	168.0
				Adjacent Insulated					20.0	8.00	160.0
Base Total: 70.0 580.0				As-Built Total: 70.0 580.0							
CEILING TYPES Area X BWPM = Points				Type R-Value Area X WPM X WCM = Points							
Under Attic	2216.0	2.05	4542.8	Under Attic				30.0	2216.0	2.05 X 1.00	4542.8
Base Total: 2216.0 4542.8				As-Built Total: 2216.0 4542.8							
FLOOR TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Slab	243.0(p)	8.9	2162.7	Slab-On-Grade Edge Insulation				0.0	243.0(p)	18.80	4568.4
Raised	0.0	0.00	0.0								
Base Total: 2162.7				As-Built Total: 243.0 4568.4							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
2216.0 -0.59 -1307.4				2216.0 -0.59 -1307.4			
Winter Base Points: 17613.3				Winter As-Built Points: 23476.3			
Total Winter X System = Heating Points Multiplier Points				Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
17613.3 0.6274 11050.6				(sys 1: Electric Heat Pump 46000 btuh ,EFF(7.3) Ducts:Unc(S),Unc(R),Int(AH),R6.0 23476.3 1.000 (1.069 x 1.169 x 0.93) 0.467 1.000 12744.9 23476.3 1.00 1.162 0.467 1.000 12744.9			

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

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
4		2635.00	10540.0	40.0	0.93	4		1.00	2606.67 1.00 10426.7
				As-Built Total:					10426.7

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
12160		11051		10540 33751	9268		12745		10427 32440

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.8

The higher the score, the more efficient the home.

Spec House, Lot: 5, Sub: Rolling Meadows, Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 46.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 11.00
4. Number of Bedrooms	4	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	2216 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: 46.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 320.0 ft ²	___		HSPF: 7.30
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 320.0 ft ²	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 243.0(p) ft	___	a. Electric Resistance	Cap: 40.0 gallons
b. N/A		___		EF: 0.93
c. N/A		___	b. N/A	___
9. Wall types		___	c. Conservation credits	___
a. Frame, Wood, Exterior	R=13.0, 1563.0 ft ²	___	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 214.0 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, 2216.0 ft ²	___	MZ-C-Multizone cooling,	
b. N/A		___	MZ-H-Multizone heating)	
c. N/A		___		
11. Ducts		___		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft	___		
b. N/A		___		

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)



Phone (386) 755-3611

Fax (386) 752-5381

Notice of Intent for Preventative Treatment for Termites

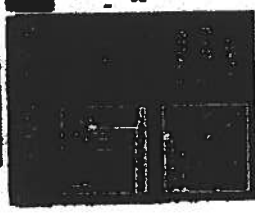
(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.**(386) 755-3611****State License # - JB109476****State Certification # - JF104376****Lot 5 Rolling Meadows, 209 SW Morning Glory Dr., Lake City, FL****Address of Treatment or Lot/Block of Treatment****Bora-Care Wood Treatment - 23% Disodium Octaborate Tetrahydrate****Method of Termite Prevention Treatment - Soil Barrier, Wood Treatment, Bait System, Other****Application onto Structural Wood****Description of Treatment**

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

Celia Drayless
Authorized Signature

2-20-06
Date



FLORIDA BUILDING CODE

- Overview
- User Registration
- Organization Registration
- User Authentication
- Organization Search
- Organization Access/Status

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

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6805593000	Product Manufacturer	01/01/2099	Approved
Org Codes: FDM		System ID: 3565		Site Link: www.gadco.com		

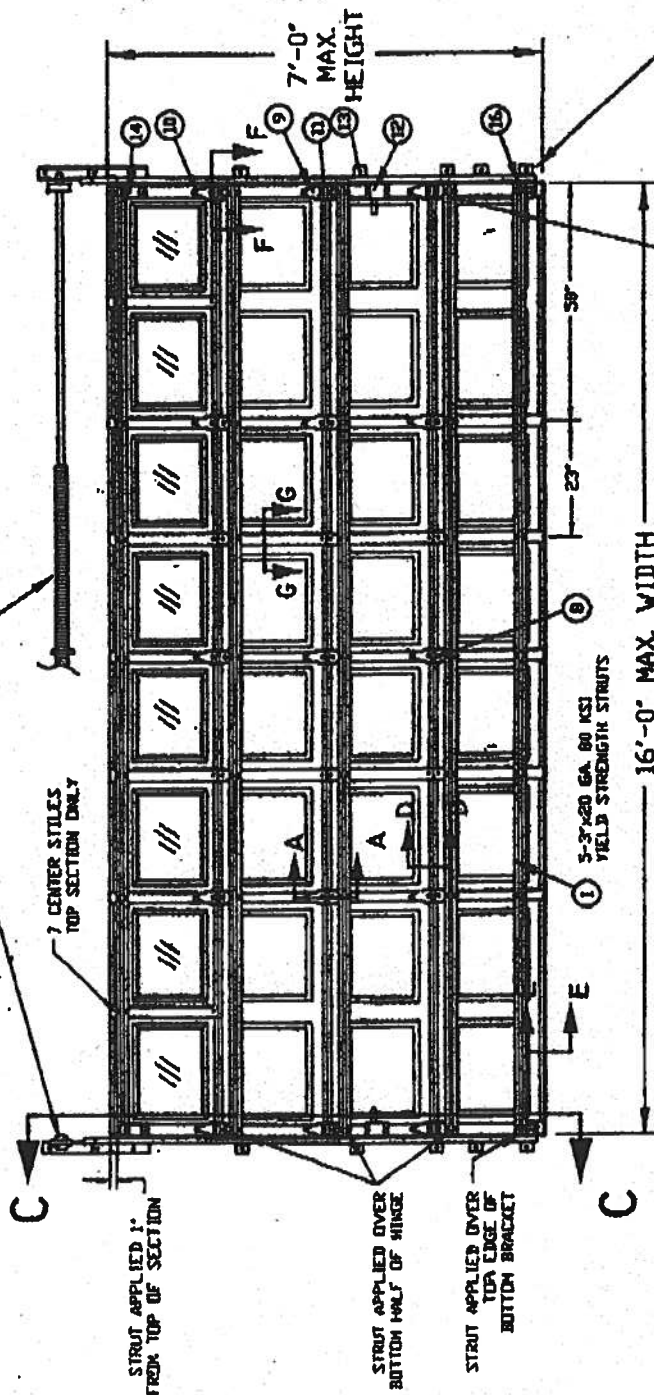
Displaying 1-1 of 1

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NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-530
 2. MAXIMUM SECTION HEIGHT = 21'
 3. SECTION HEIGHTS OF 21'0" AND 19'5" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
 4. VARIOUS MAY BE INSTALLED IN THE TOP SECTION. GAS TESTED WITH 1/8" DOOR GLASS OR EQUIVALENT. DOOR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
- A 2 DROP IN TYPE OF INSULATION IS OPTIONAL.

NOT PART OF WIND LOAD SYSTEM
EXTENSION SPRING COUNTERBALANCE
TORSION SPRING COUNTERBALANCE



INSIDE ELEVATION

ALL ROLLER CARRIERS
AND HINGES ARE 14 GA.

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

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



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

TEST REPORTS ON FILE VIDEO 10/19/00 0002930

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



GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 1/8" = 1'-0"	APPROVED BY:	DESIGNED BY: A. W. H. H. H.
DRAWN BY: J. H. H. H.	REVIEWED BY: (A) 11-10-00	
DATE: 11-20-00		
16" X 7" MAX. RAISED PANEL STEEL DOOR - WINDLOAD +20 PSF		
TEST NUMBER	PAGE 1 OF 2	PROJECT NUMBER V13220-1

GAPCO DOORS
SERIES 7400, EXTERIOR STEEL - 0.017 MIN GAS TESTED
SERIES 7805, EXTERIOR STEEL - 0.017 MIN GAS TESTED
SERIES 7524, EXTERIOR STEEL - 0.024" MIN GAS TESTED WITH VARIOUS

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STURTS TO SET	VERTICAL TRACK
16'	7'	23"	3'	5 2 IN.



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" POSTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "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 BIRLINGS 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 (22 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FINISH 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, ADD AN ADDITIONAL 2x6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

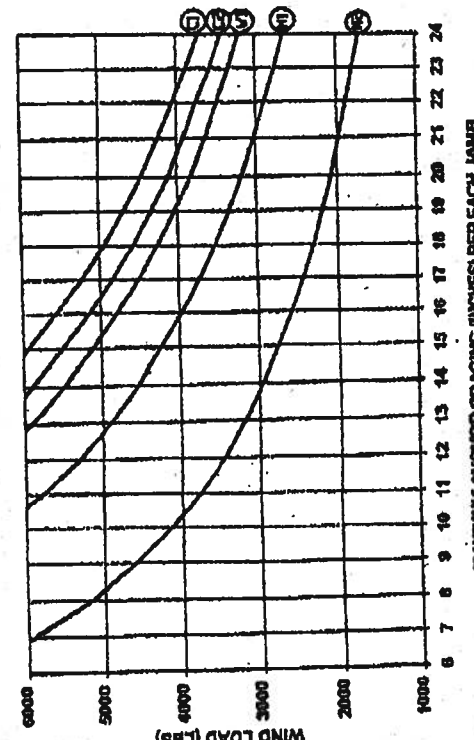
1) CONCRETE BIRLING
HULTI EXHIBIT II
EXPANSION ANCHOR
3/8" DIA.
1-5/8" EMBEDMENT

2) CONCRETE BIRLING
HULTI EXHIBIT II
SLEEVE ANCHOR
3/8" DIA.
1-5/8" EMBEDMENT

3) MASONRY ANCHOR
HULTI EXHIBIT II
SLEEVE ANCHOR
3/8" DIA.
1-5/8" EMBEDMENT

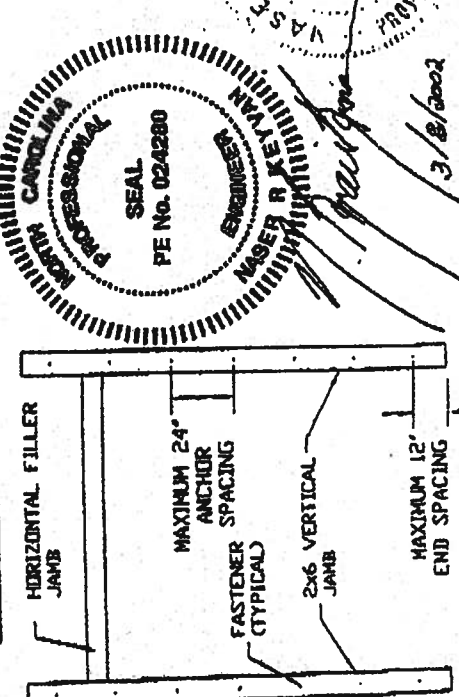
4) MASONRY ANCHOR
HULTI EXHIBIT II
SLEEVE ANCHOR
3/8" DIA.
1-5/8" EMBEDMENT

5) WOOD STUD ANCHOR
LAG SCREWS
5/16" DIA.
1-1/2" EMBEDMENT



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

EXAMPLE
30 LBS X 16 FT WIDE X 8 FT HIGH = 3840 LBS
FTE
1) USE 22" SPACING
2) USE 21" SPACING
3) USE 19" SPACING
SEE NOTE 11 FOR ADDITIONAL
REQUIRED 2x6 WOOD JAMB ANCHORS



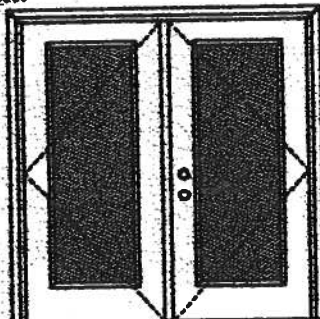
SEAL
PE No. 024280
ENGINEER
NORTH CAROLINA
PROFESSIONAL
3/8/2002

		GENERAL AMERICAN DOOR COMPANY 5800 BASSETT ROAD NORTHGHERY, IL 60538	
WIND 42 PSF	WIND 42 PSF	WIND 42 PSF	WIND 42 PSF
JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		PROJECT NUMBER A10560	

XX

Glazed Outswing Unit

CGP-WL-JH1162-02

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

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

Design Pressure
+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistance requirements for a specific building design and geographic location is determined by ASCE 7-sections, 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 3'0" 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:**

101 Series



123, 125 Series



136 Series



683 Series



822 Series

1/2 GLASS:

105 Series*



106, 150 Series*



128 Series*



200 Series*



12 RL, 23 RL, 24 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 scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson
EntrySystems

March 29, 2002

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

PREMDOR
Premium Quality Doors

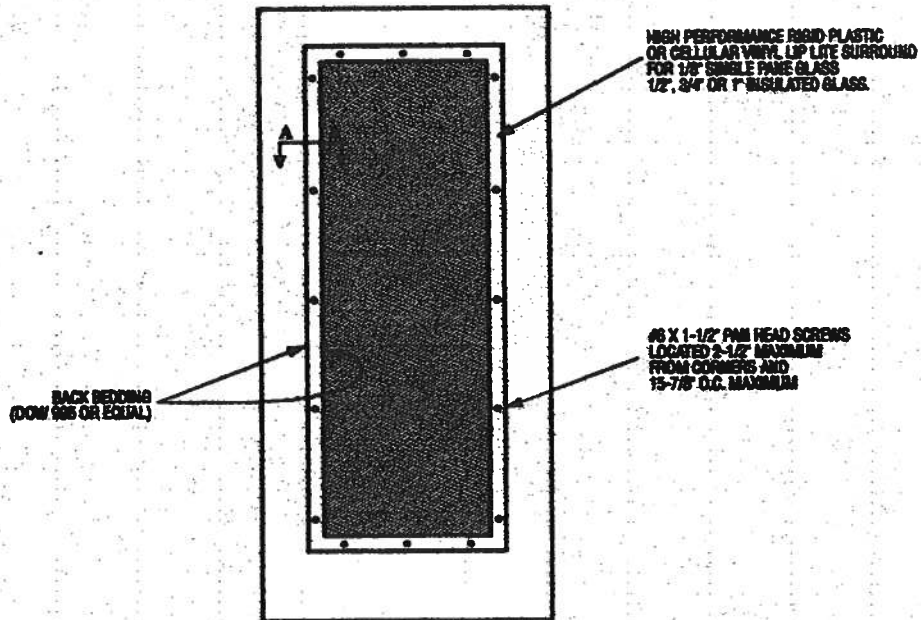


Exclusively from

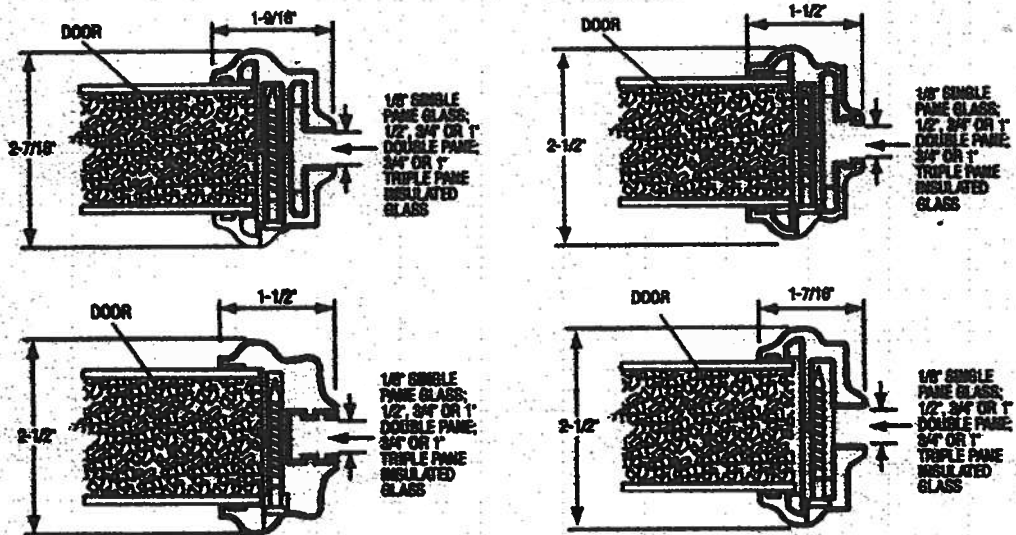
Masonite
Masonite International Corporation

MA0-WL-MA0041-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from

Masonite International Corporation

XX

Glazed Outswing Unit

COP-WL-JH4162-02

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

404 Series



410 Series



450 Series

FULL GLASS:

100 Series



114, 120, 122 Series



132 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

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

Certifying Engineer and License Number: Barry D. Portney, P.E. / 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 and 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 Balthazor, P.E. - License Number 56533

Johnson
EntrySystems

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

PRENDOR Collection
Premium Quality Doors



Exclusively from

Masonite

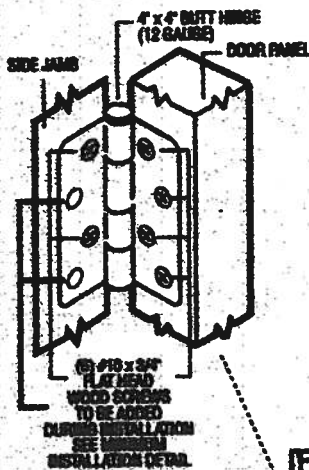
Masonite International Corporation

XX
Unit

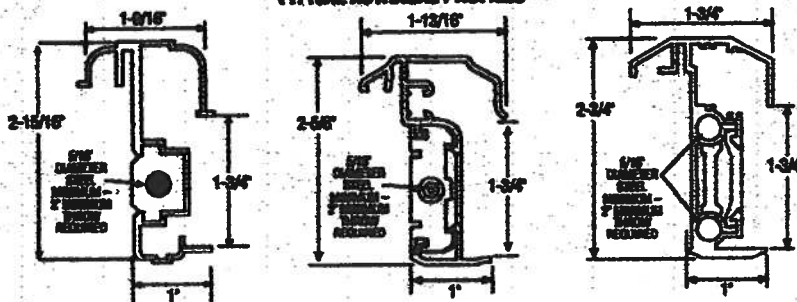
MAD-VL-MAD012-02

OUTSWING UNITS WITH DOUBLE DOOR

TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAL PROFILES



ALUMINUM EXTRUDED ASTRAL (0.06\"/>

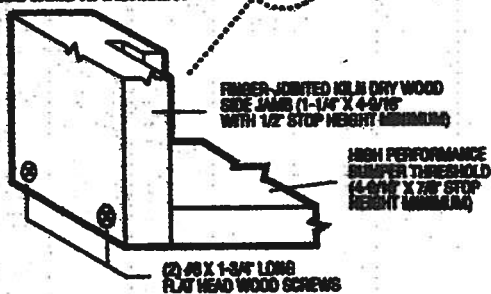
TYPICAL HEADER & SIDE JAMB ATTACHMENT

FINGER-JOINTED KILN DRY WOOD
FRAME HEADER (1-1/4\"/>

(2) 2\"/>

FINGER-JOINTED
KILN DRY WOOD
SIDE JAMB
(1-1/4\"/>

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 25, 2002

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



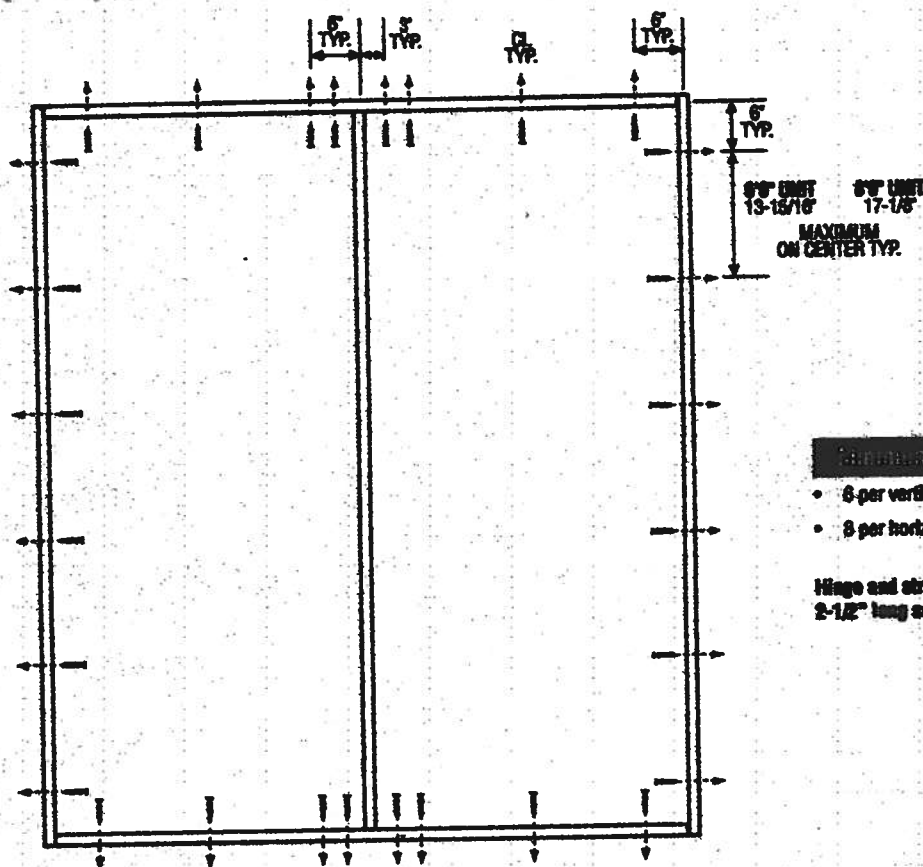
Exclusively from

Masonite
Masonite International Corporation

XX
Unit

IMD-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 3 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:

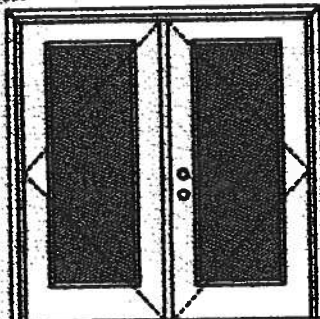
1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & 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 makes specifications, design and product detail subject to change without notice.



XX**Glazed Outswing Unit**

00P-WL-JH4162-02

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

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

Double Door

Minimum unit size = 6'0" 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.

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



133, 136 Series



138 Series



680 Series



822 Series

1/2 GLASS:

146 Series*



166, 169 Series*



129 Series*



200 Series*



12 R/L, 23 R/L, 34 R/L Series*



107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 6-panel with scroll; Eyebrow 6-panel; Eyebrow 5-panel with scroll.

Johnson
EntrySystems

March 23, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR
Premium Quality Doors

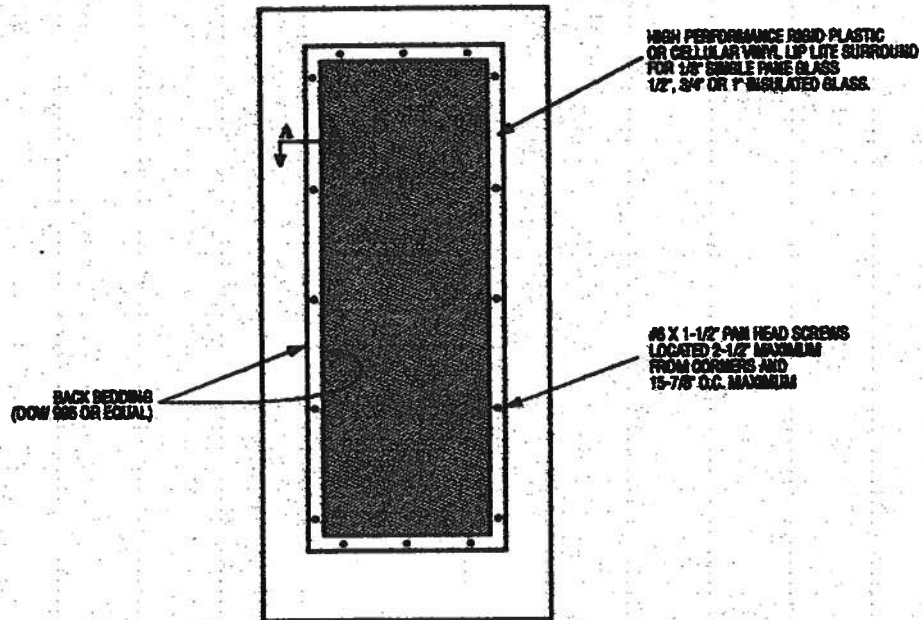


Exclusively from

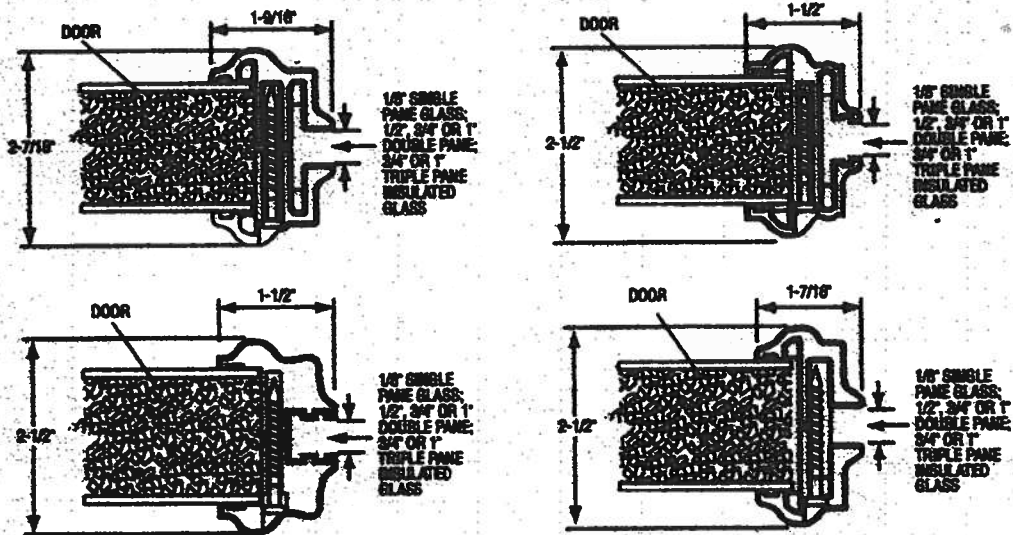
Masonite
Masonite International Corporation

WAD WL MA0041-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



March 29, 2002
Our continuing program of product improvement makes specifications,
designs and product details subject to change without notice.



Exclusively from
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Masonite International Corporation

XX

Glazed Outswing Unit

COP-WL JH4162-02

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

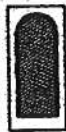
404 Series



416 Series



460 Series

FULL GLASS:

100 Series



114, 120, 122 Series



182 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

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

Certifying Engineer and License Number: Barry D. Portney, P.E. / 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 and 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 Balthazor, P.E. - License Number 56533

Johnson
EntrySystems

March 28, 2002

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

PREMIER Collection
Premium Quality Doors



Exclusively from

Masonite

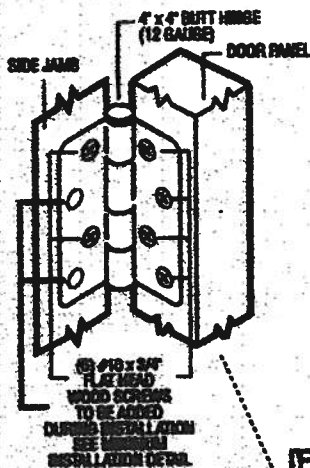
Masonite International Corporation

XX
Unit

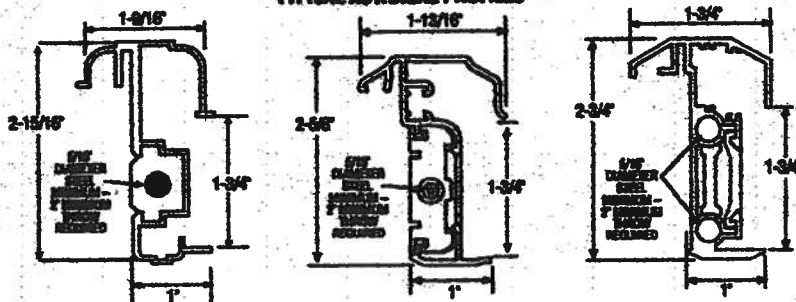
MAD-WL-WA8012-02

OUTSWING UNITS WITH DOUBLE DOOR

TYPICAL HINGE ATTACHMENT

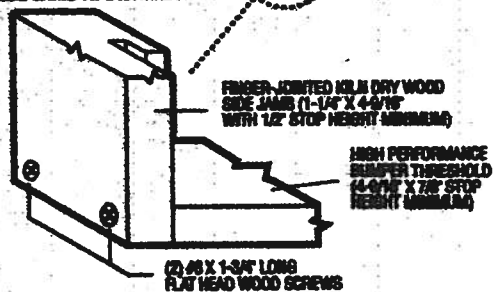


TYPICAL ASTRAL PROFILES

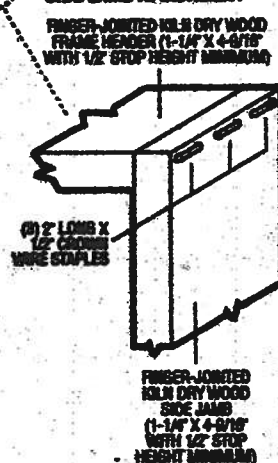


ALUMINUM EXTRUDED ASTRAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL DEADBOLT LATCHING LOCATIONS. ATTACH WITH #6 X 1" PAN HEAD SCREWS - LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



TYPICAL HEADER & SIDE JAMB ATTACHMENT



March 29, 2002

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



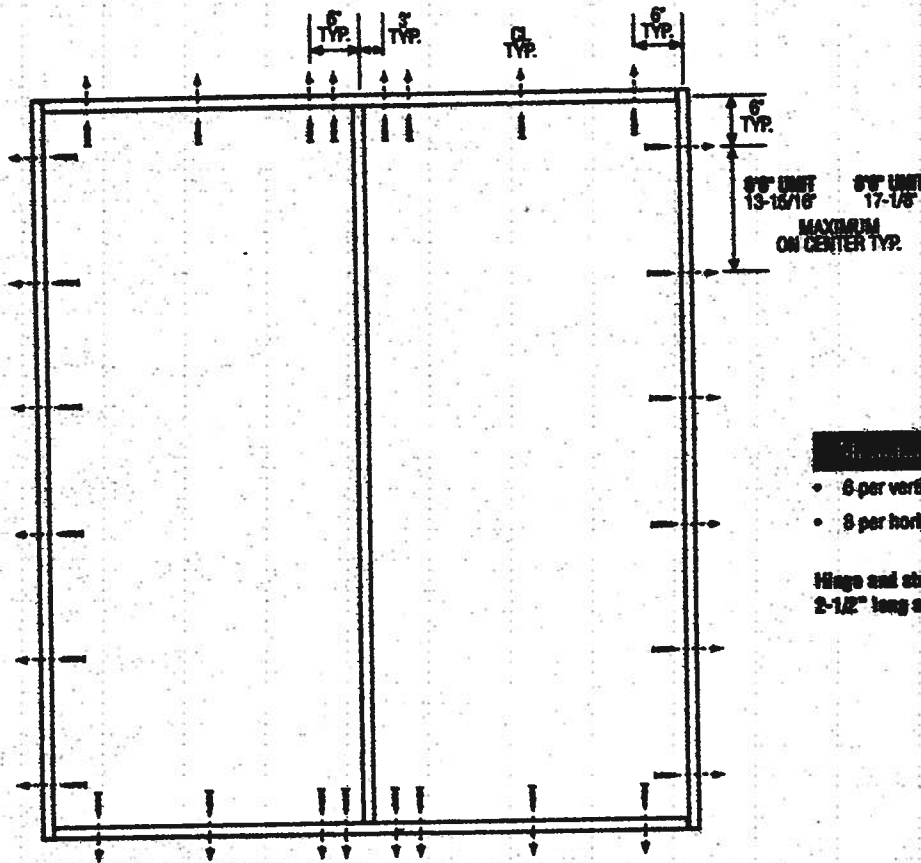
Exclusively from

Masonite International Corporation

XX
Unit

IMD-WL-18A0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 3 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/AF & 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 engineering program of product improvement, minor modifications,
design and product detail subject to change without notice.



Exclusively from

Masonite
Masonite International Corporation



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.

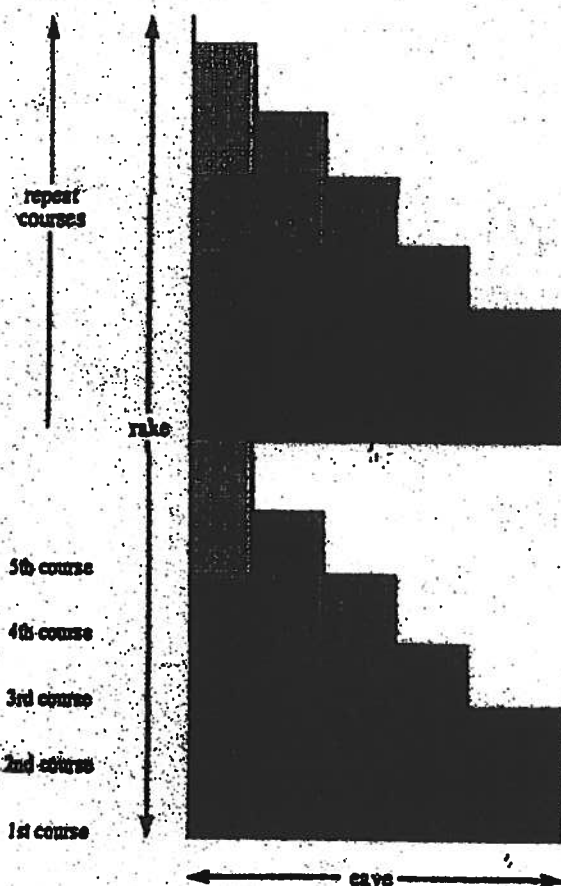
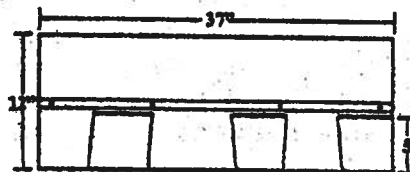
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

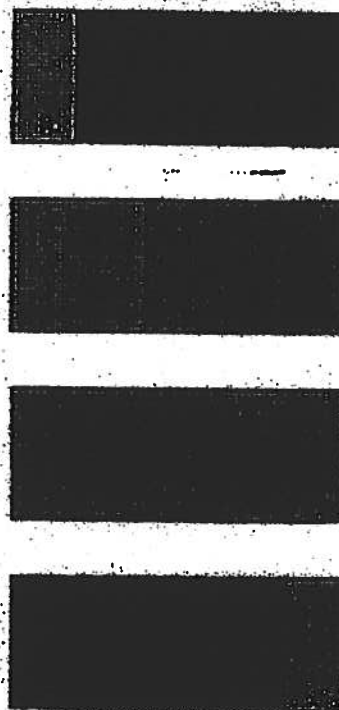


Application Instructions For Heritage® 25 Series Shingles

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. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

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

NAIS: TAMKO recommends the use of nails as the preferred method of application.

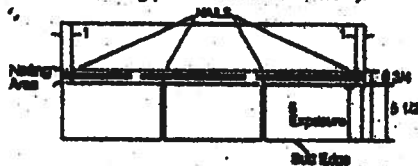
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

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.

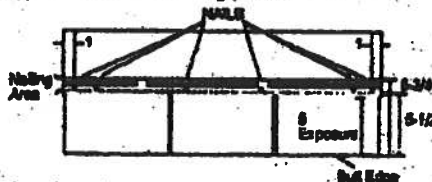
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or 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 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

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



2) **Mansard or High Wind Fastening Pattern.** (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fasteners per shingle. (See Mansard fastening pattern illustrated below.)



NAIS: 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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Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1834
Western District	6300 East 43rd Ave., Denver, CO 80216	800-830-8868

07/01

TAMKO

ROOFING PRODUCTS

(CONTINUED FROM Pg. 2)

Glass-Seal Glass-Seal AR

Elite Glass-Seal® Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

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

RE-ROOFING

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

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

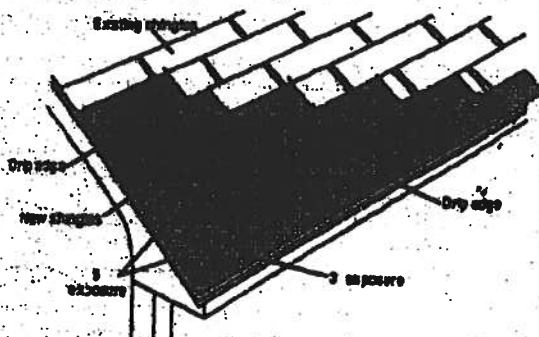
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. 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 Subsequent Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake and end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingles used 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.

VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nab-Fast® or a minimum 60 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.

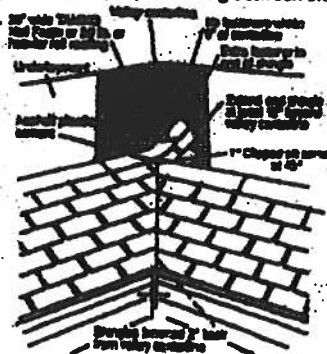
Note: For a faster installation, snap a chalkline over the shingles for guidance.

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

- **CAUTION:** Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

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07/01



(CONTINUED from Pg. 3)

• Glass-Seal
• Glass-Seal AR

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

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

18. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

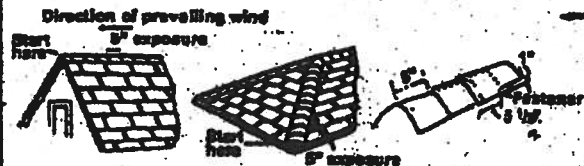
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

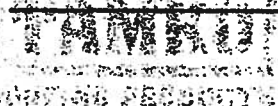
Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHEN BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



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



IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

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Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1634
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07/01

I

**AAMA/NWDA 101/LS2-97
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 paf -47.2 paf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 paf
Structural Test Pressure	+67.5 paf -70.8 paf
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:nb


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

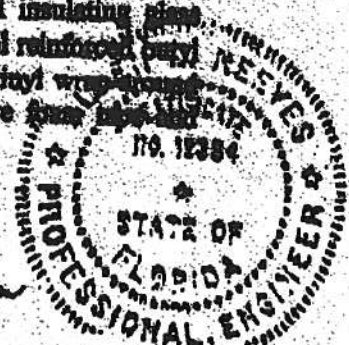
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

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 film 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 R. Rimmer
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 truck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

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

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

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42" 0.43"	0.26" max. 0.26" max.

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

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
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Allen H. Reeves
1 APRIL 2002



Test Specimens Description: (Continued)

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

Optional Performance

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

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

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

Allen H. Reeves
1 APRIL 2002



VI

01-41134.01
Page 5 of 5

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

For ARCHITECTURAL TESTING, INC:



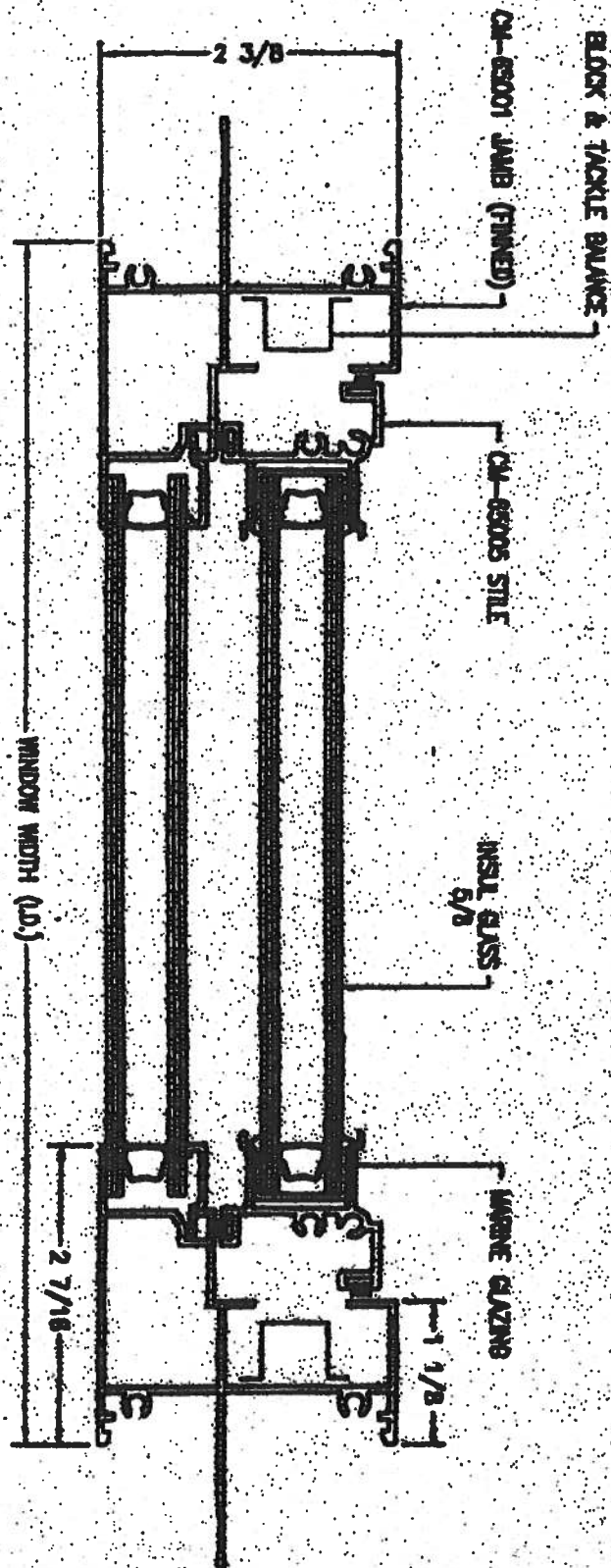
Mark A. Hoss
Technician

MAH:alb
01-41134.01

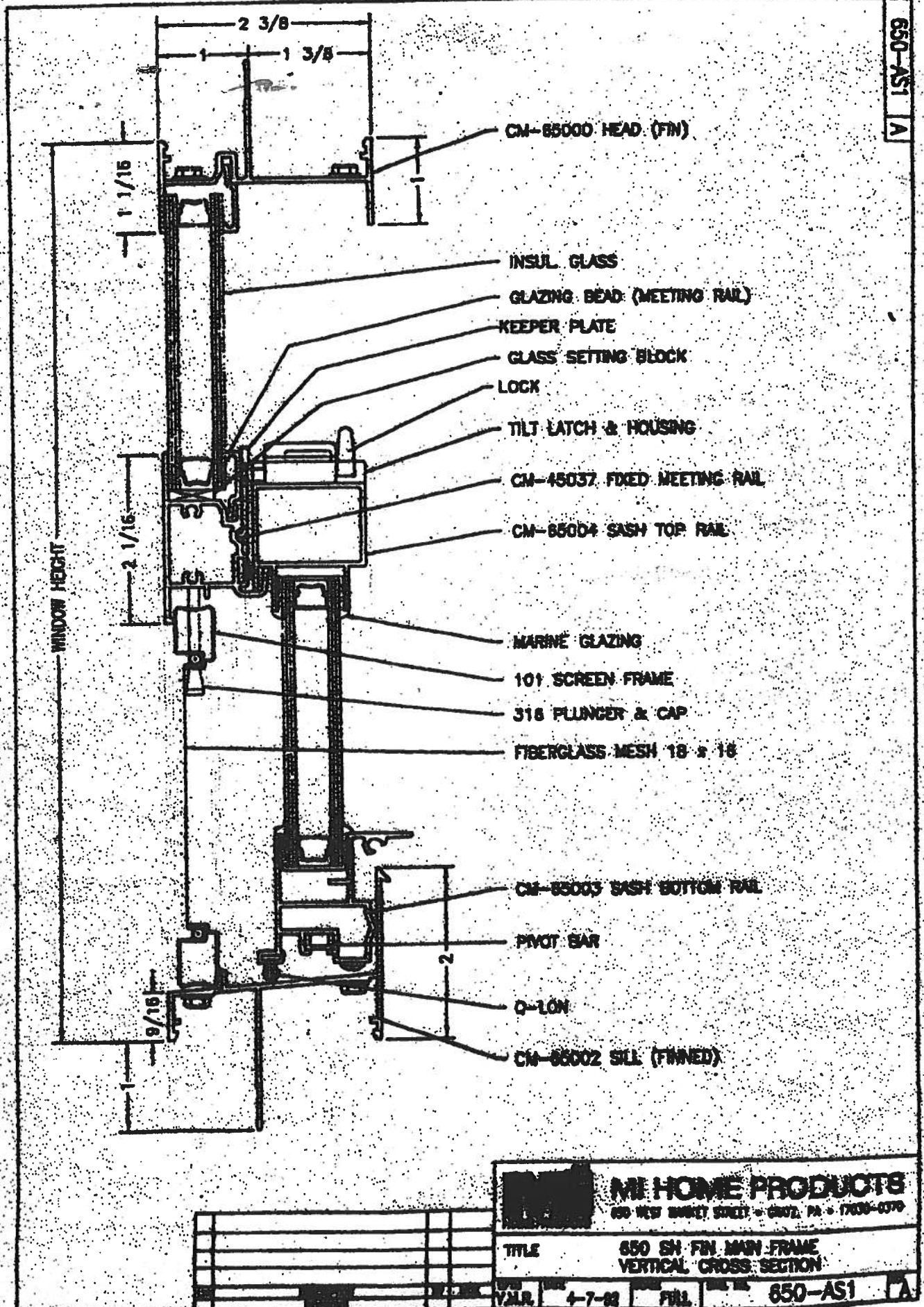


Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002





		M HOME PRODUCTS 650 WEST WINDY STREET • GAITHERSBURG, MD • 20878-0250	
TITLE		DESCRIPTION	
850 SH PM BURN FRAME INSULATED GLASS HORIZONTAL CROSS SECTION		850-AS2	
DATE	1-7-82	BY	FWL



Residential System Sizing Calculation

Summary

Spec House
FL

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

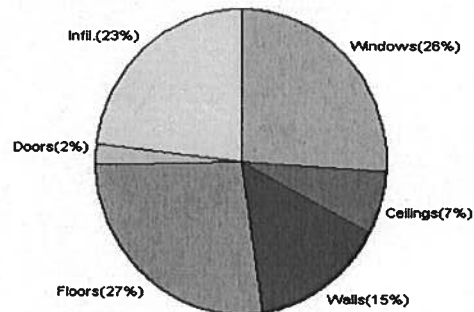
1/18/2006

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	39158 Btuh	Total cooling load calculation	33041 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.5 46000	Sensible (SHR = 0.75)	124.5 34500
Heat Pump + Auxiliary(0.0kW)	117.5 46000	Latent	215.6 11500
		Total (Electric Heat Pump)	139.2 46000

WINTER CALCULATIONS

Winter Heating Load (for 2216 sqft)

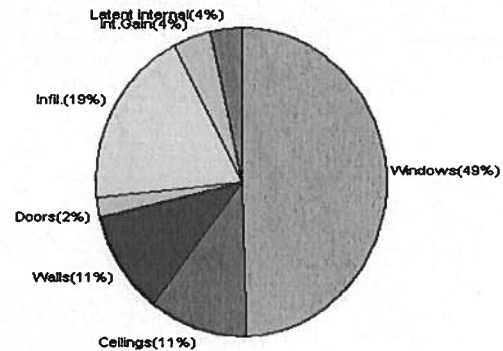
Load component		Load	
Window total	320 sqft	10301	Btuh
Wall total	1777 sqft	5836	Btuh
Door total	70 sqft	907	Btuh
Ceiling total	2216 sqft	2611	Btuh
Floor total	243 sqft	10609	Btuh
Infiltration	220 cfm	8894	Btuh
Duct loss		0	Btuh
Subtotal		39158	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		39158	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2216 sqft)

Load component		Load	
Window total	320 sqft	16283	Btuh
Wall total	1777 sqft	3583	Btuh
Door total	70 sqft	686	Btuh
Ceiling total	2216 sqft	3670	Btuh
Floor total		0	Btuh
Infiltration	113 cfm	2105	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		27707	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		4134	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		5334	Btuh
TOTAL HEAT GAIN		33041	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 1-18-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

1/18/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	60.0		32.2	1931 Btuh
2	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
3	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
5	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
6	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
8	2, Clear, Metal, 0.87	SE	6.0		32.2	193 Btuh
9	2, Clear, Metal, 0.87	SE	14.0		32.2	451 Btuh
10	2, Clear, Metal, 0.87	SE	5.0		32.2	161 Btuh
11	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
13	2, Clear, Metal, 0.87	SW	4.0		32.2	129 Btuh
14	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
Window Total			320(sqft)			10301 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1563		3.3	5133 Btuh
2	Frame - Wood - Adj(0.09)	13.0	214		3.3	703 Btuh
Wall Total			1777			5836 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		30		12.9	388 Btuh
Door Total			70			907Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2216		1.2	2611 Btuh
Ceiling Total			2216			2611Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	243.0 ft(p)		43.7	10609 Btuh
Floor Total			243			10609 Btuh
Zone Envelope Subtotal:						30264 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	
	Natural	0.66		19962	219.6	8894 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					39158 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	39158 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	39158 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:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

1/18/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
9	2, Clear, Metal, 0.87	SE	14.0	32.2	451 Btuh
10	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
11	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	SE	16.0	32.2	515 Btuh
13	2, Clear, Metal, 0.87	SW	4.0	32.2	129 Btuh
14	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
Window Total			320(sqft)		10301 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1563	3.3	5133 Btuh
2	Frame - Wood - Adj(0.09)	13.0	214	3.3	703 Btuh
Wall Total			1777		5836 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		30	12.9	388 Btuh
Door Total			70		907 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic(D/Shin)	30.0	2216	1.2	2611 Btuh
Ceiling Total			2216		2611 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	243.0 ft(p)	43.7	10609 Btuh
Floor Total			243		10609 Btuh
Zone Envelope Subtotal:					30264 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.66	19962	219.6	8894 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				39158 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	39158 Btuh 0 Btuh 39158 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:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

1/18/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	60.0	0.0	60.0	29	60	3602	Btuh
2	2, Clear, 0.87, None,N,N	NW	12.3	9ft.	30.0	0.0	30.0	29	60	1801	Btuh
3	2, Clear, 0.87, None,N,N	NW	12.3	7ft.	30.0	0.0	30.0	29	60	1801	Btuh
4	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	20.0	0.0	20.0	29	60	1201	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	15.0	0.0	15.0	29	60	901	Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
7	2, Clear, 0.87, None,N,N	SE	7ft.	7ft.	30.0	30.0	0.0	29	63	869	Btuh
8	2, Clear, 0.87, None,N,N	SE	7ft.	2ft.	6.0	6.0	0.0	29	63	174	Btuh
9	2, Clear, 0.87, None,N,N	SE	10ft.	9ft.	14.0	14.0	0.0	29	63	405	Btuh
10	2, Clear, 0.87, None,N,N	SE	10ft.	2ft.	5.0	5.0	0.0	29	63	145	Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft	0ft.	30.0	30.0	0.0	29	63	869	Btuh
12	2, Clear, 0.87, None,N,N	SE	1.5ft	5.5ft	16.0	4.1	11.9	29	63	863	Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft	3.5ft	4.0	2.0	2.0	29	63	181	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft	6.5ft	30.0	6.1	23.9	29	63	1670	Btuh
	Window Total				320 (sqft)					16283 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		1563.0		2.1		3260 Btuh			
2	Frame - Wood - Adj	13.0/0.09		214.0		1.5		323 Btuh			
	Wall Total				1777 (sqft)			3583 Btuh			
Doors	Type			Area (sqft)		HTM		Load			
1	Insulated - Adjacent			20.0		9.8		196 Btuh			
2	Insulated - Exterior			20.0		9.8		196 Btuh			
3	Insulated - Exterior			30.0		9.8		294 Btuh			
	Door Total				70 (sqft)			686 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle	30.0		2216.0		1.7		3670 Btuh			
	Ceiling Total				2216 (sqft)			3670 Btuh			
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		243 (ft(p))		0.0		0 Btuh			
	Floor Total				243.0 (sqft)			0 Btuh			
	Zone Envelope Subtotal:									24222 Btuh	
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.34		19962		113.1		2105 Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	6		X 230 +		0		1380 Btuh				
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									27707 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	27707 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	27707 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	27707 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4134 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	5334 Btuh
	TOTAL GAIN	33041 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))
 (Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

1/18/2006

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	60.0	0.0	60.0	29	60	3602	Btuh	
2	2, Clear, 0.87, None,N,N	NW	12.3	9ft.	30.0	0.0	30.0	29	60	1801	Btuh	
3	2, Clear, 0.87, None,N,N	NW	12.3	7ft.	30.0	0.0	30.0	29	60	1801	Btuh	
4	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	20.0	0.0	20.0	29	60	1201	Btuh	
5	2, Clear, 0.87, None,N,N	NW	1.5ft	0ft.	15.0	0.0	15.0	29	60	901	Btuh	
6	2, Clear, 0.87, None,N,N	NE	1.5ft	6ft.	30.0	0.0	30.0	29	60	1801	Btuh	
7	2, Clear, 0.87, None,N,N	SE	7ft.	7ft.	30.0	30.0	0.0	29	63	869	Btuh	
8	2, Clear, 0.87, None,N,N	SE	7ft.	2ft.	6.0	6.0	0.0	29	63	174	Btuh	
9	2, Clear, 0.87, None,N,N	SE	10ft.	9ft.	14.0	14.0	0.0	29	63	405	Btuh	
10	2, Clear, 0.87, None,N,N	SE	10ft.	2ft.	5.0	5.0	0.0	29	63	145	Btuh	
11	2, Clear, 0.87, None,N,N	SE	1.5ft	0ft.	30.0	30.0	0.0	29	63	869	Btuh	
12	2, Clear, 0.87, None,N,N	SE	1.5ft	5.5ft	16.0	4.1	11.9	29	63	863	Btuh	
13	2, Clear, 0.87, None,N,N	SW	1.5ft	3.5ft	4.0	2.0	2.0	29	63	181	Btuh	
14	2, Clear, 0.87, None,N,N	SW	1.5ft	6.5ft	30.0	6.1	23.9	29	63	1670	Btuh	
	Window Total				320 (sqft)					16283 Btuh		
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load				
1	Frame - Wood - Ext	13.0/0.09		1563.0		2.1		3260 Btuh				
2	Frame - Wood - Adj	13.0/0.09		214.0		1.5		323 Btuh				
	Wall Total				1777 (sqft)				3583 Btuh			
Doors	Type			Area (sqft)		HTM		Load				
1	Insulated - Adjacent			20.0		9.8		196 Btuh				
2	Insulated - Exterior			20.0		9.8		196 Btuh				
3	Insulated - Exterior			30.0		9.8		294 Btuh				
	Door Total				70 (sqft)				686 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load				
1	Vented Attic/DarkShingle	30.0		2216.0		1.7		3670 Btuh				
	Ceiling Total				2216 (sqft)				3670 Btuh			
Floors	Type	R-Value		Size		HTM		Load				
1	Slab On Grade	0.0		243 (ft(p))		0.0		0 Btuh				
	Floor Total				243.0 (sqft)				0 Btuh			
	Zone Envelope Subtotal:								24222 Btuh			
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load				
	SensibleNatural	0.34		19962		113.1		2105 Btuh				
Internal gain	Occupants		Btuh/occupant		Appliance		Load					
	6		X 230 +		0		1380 Btuh					
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)						DGM = 0.00		0.0 Btuh			
	Sensible Zone Load								27707 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	27707 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	27707 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	27707 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4134 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	5334 Btuh
	TOTAL GAIN	33041 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))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Project Title:
511292SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

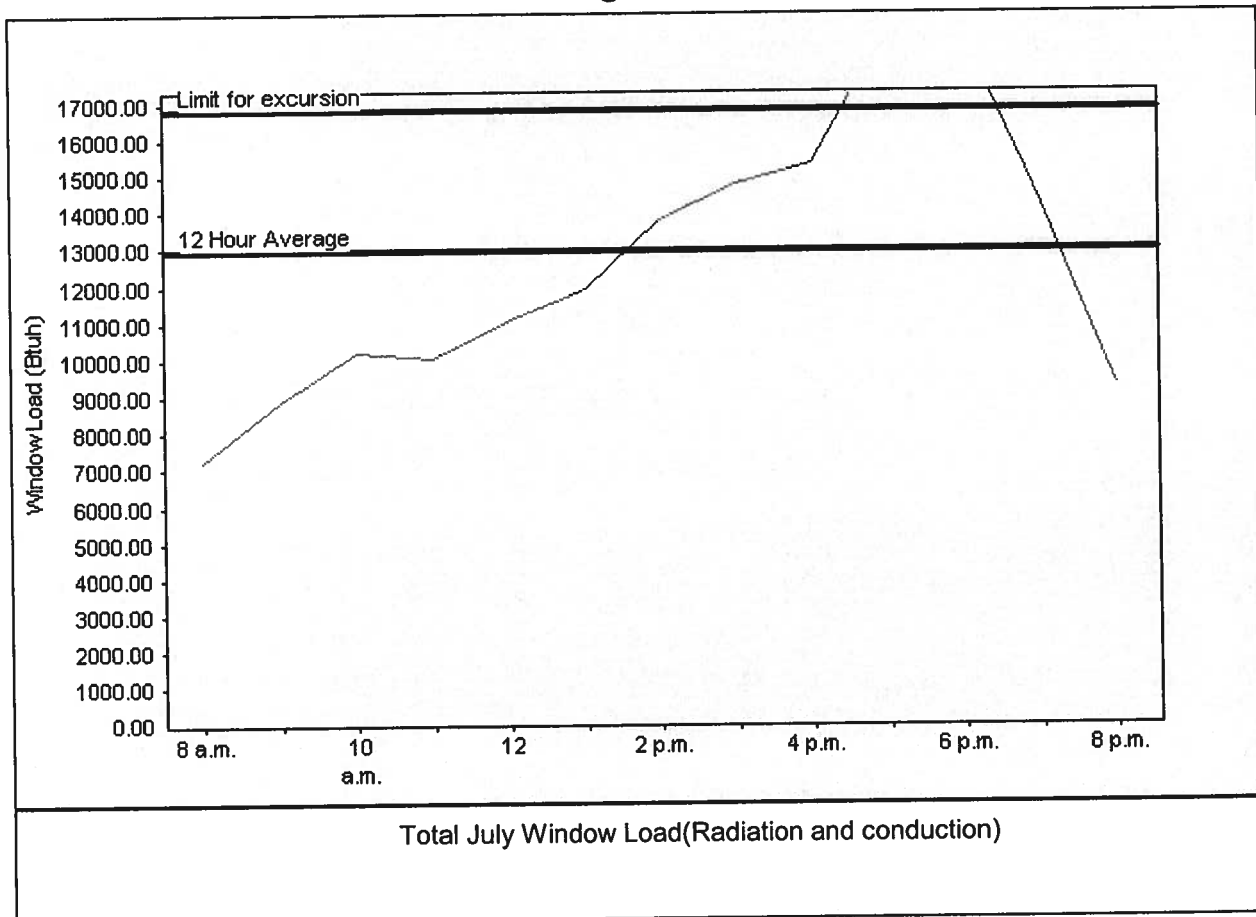
, FL

1/18/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	12947 Btu
Summer setpoint	75 F	Peak window load for July	19088 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	16831 Btu
Latitude	29 North	Window excursion (July)	2257 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: *[Signature]*
DATE: *1-16-06*

EnergyGauge® FLR2PB v4.1



**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**

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

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

Plans Examiner

- ☐ All drawings must be clear 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.

☐ Designer's name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.

☐ Site Plan including:

 - 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.

☐ Wind-load Engineering Summary, calculations and any details required

 - 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/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional

☐ Elevations including:

 - 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
 - g) 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 (accessible bathroom)

Foundation Plan including:

- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

Roof System:

- a) Truss package including:
 - 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
 - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 - 1. Rafter size, species and spacing
 - 2. Attachment to wall and uplift
 - 3. Ridge beam sized and valley framing and support details
 - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- a) Masonry wall
 - 1. All materials making up wall
 - 2. Block size and mortar type with size and spacing of reinforcement
 - 3. Lintel, tie-beam sizes and reinforcement
 - 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
 - 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
 - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
 - 7. Fire resistant construction (if required)
 - 8. Fireproofing requirements
 - 9. Shoe type of termite treatment (termitecide or alternative method)
 - 10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
 - 11. Indicate where pressure treated wood will be placed
 - 12. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

☒☐**b) Wood frame wall**

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

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

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

Plumbing Fixture layout**Electrical layout including:**

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

HVAC Information

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

Energy Calculations (dimensions shall match plans)**Gas System Type (LP or Natural) Location and BTU demand of equipment****Disclosure Statement for Owner Builders****Notice Of Commencement****Private Potable Water**

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

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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:1STL487-Z0209082835

Truss Fabricator: Anderson Truss Company
Job Identification: 5-567-SPARKS CONSTR.-#5 ROLLING MEADOWS
Truss Count: 44
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.22.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: BRCLBSUB-PIGBACKB

Seal Date: 01/09/2006

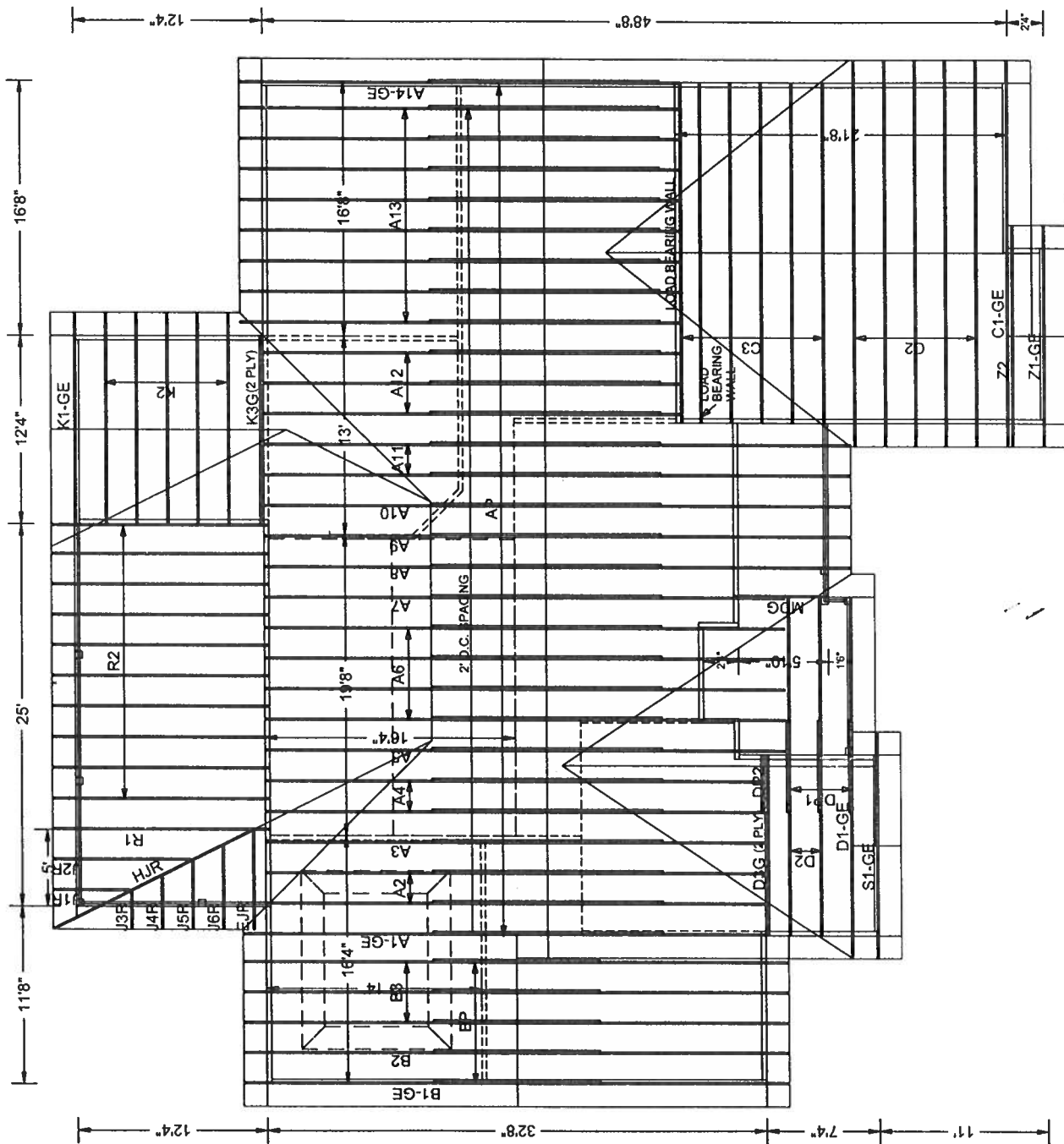
-Truss Design Engineer-
Arthur R. Fisher

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

#	Ref	Description	Drawing#	Date
1	58905--A1-GE		06005007	01/05/06
2	58906--A2		06005008	01/05/06
3	58907--A3		06005009	01/05/06
4	58908--A4		06005010	01/05/06
5	58909--A5		06005011	01/05/06
6	58910--A6		06005012	01/05/06
7	58911--A7		06005013	01/05/06
8	58912--A8		06005014	01/05/06
9	58913--A9		06005015	01/05/06
10	58914--A10		06005016	01/05/06
11	58915--A11		06005017	01/05/06
12	58916--A12		06005018	01/05/06
13	58917--A13		06005019	01/05/06
14	58918--A14-GE		06005020	01/05/06
15	58919--B1-GE		06005021	01/05/06
16	58920--B2		06005022	01/05/06
17	58921--B3		06005023	01/05/06
18	58922--C1-GE		06005024	01/05/06
19	58923--C2		06005025	01/05/06
20	58924--C3		06005026	01/05/06
21	58925--D1-GE		06005027	01/05/06
22	58926--D2		06005028	01/05/06
23	58927--D3G		06005029	01/05/06
24	58928--MDG		06005030	01/05/06
25	58929--HJR		06005031	01/05/06
26	58930--EJR		06005032	01/05/06
27	58931--J1R		06005004	01/05/06
28	58932--J2R		06005033	01/05/06
29	58933--J3R		06005034	01/05/06
30	58934--J4R		06005035	01/05/06
31	58935--J5R		06005036	01/05/06
32	58936--J6R		06005037	01/05/06
33	58937--K1-GE		06005038	01/05/06
34	58938--K2		06005005	01/05/06
35	58939--K3G		06005039	01/05/06
36	58940--AP		06005040	01/05/06

#	Ref	Description	Drawing#	Date
37	58941--BP		06005041	01/05/06
38	58942--DP1		06005042	01/05/06
39	58943--DP2		06005043	01/05/06
40	58944--R1		06005044	01/05/06
41	58945--R2		06005006	01/05/06
42	58946--S1-GE		06005045	01/05/06
43	58947--Z1-GE		06005046	01/05/06
44	58948--Z2		06005047	01/05/06





623-0575
Josh

#5-567 SPARKS CONSTRUCTION - LOT #5 ROLLING MEADOWS
1/4/06

TC LL	20.0	PSF	REF R487 -- 58905
TC DL	10.0	PSF	DATE 01/05/06
BC DL	10.0	PSF	DRW HCU5R487 06005007
BC LL	0.0	PSF	HC-ENG JB/AF
TOT.LD.	40.0	PSF	SEQN- 73200 RE
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1STL487_Z02

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

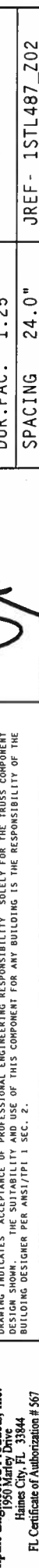
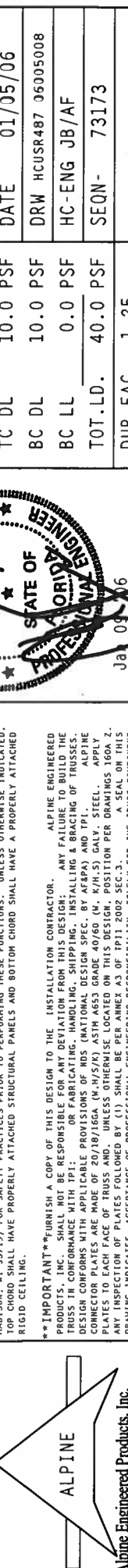
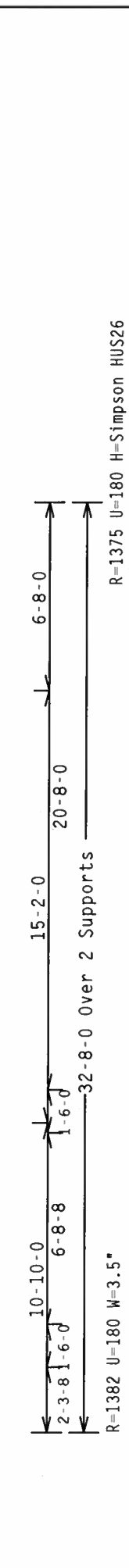
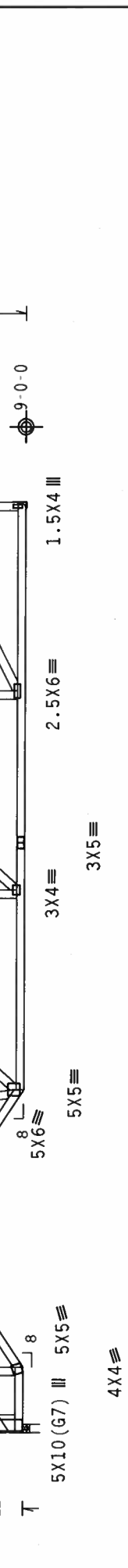
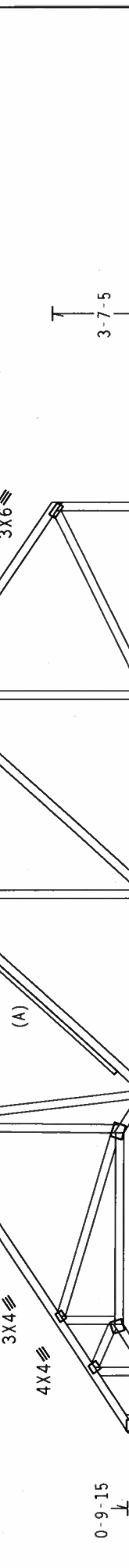
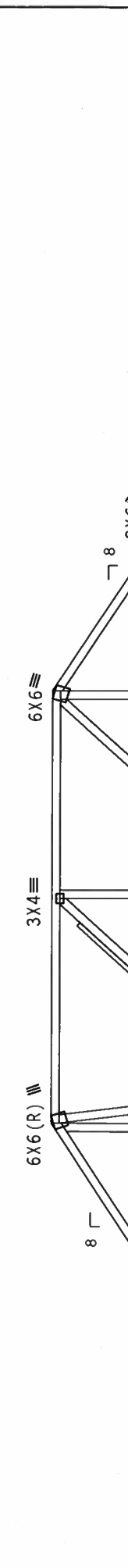
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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.

Right end vertical not exposed to wind pressure.

(A) 2x4 SP #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.22.11

Scale = .1875"/Ft.

REF R487-- 58906

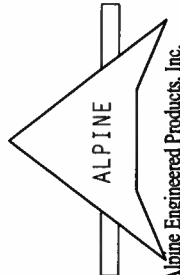
DATE 01/05/06

DRW HCUSR487 06005008

HC-ENG JB/AF

SEQN- 73173

JREF- 1STL487_Z02



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 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 2018/16GA (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 DESIGN 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.

RECEIVED
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 59887
JAN 09 2006

RECEIVED
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 59887
JAN 09 2006

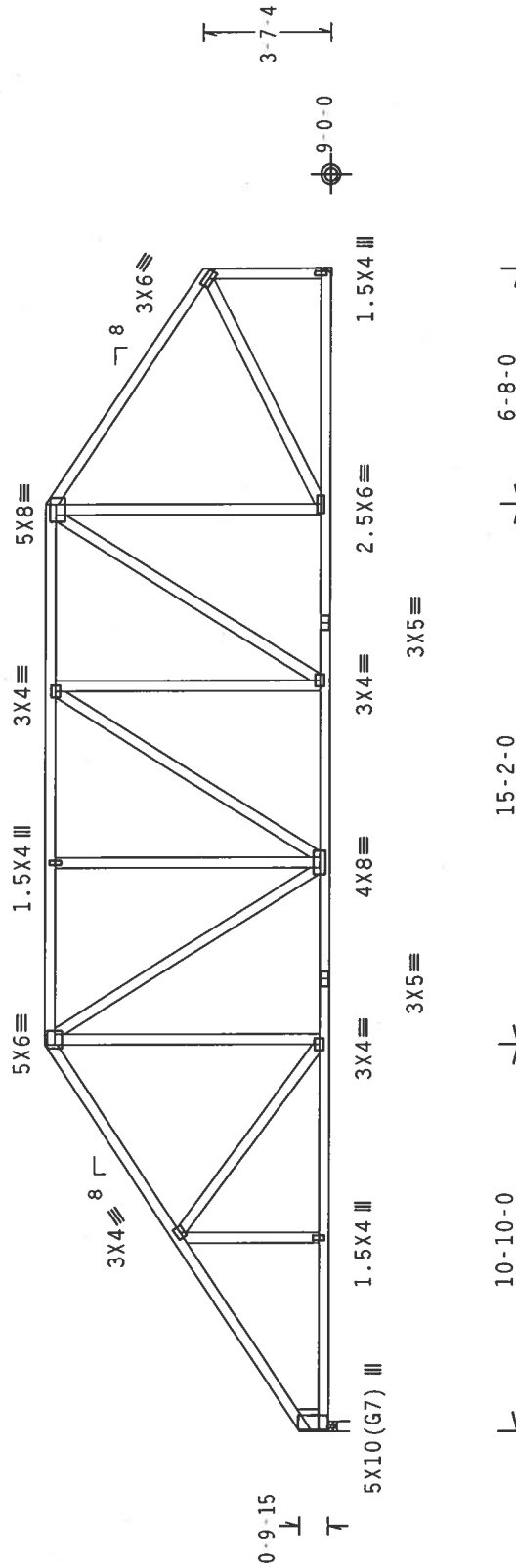
Top chord	2x4	SP #2	Dense
Bot chord	2x4	SP #2	Dense
	Webbs	2x4	SP #3
:Lt	Stubbed	Wedge	2x8 SP SS:

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

Right end vertical not exposed to wind pressure.

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

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=1373 H=180 W=35"

R=1372 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.Pine

PLT	TYP.	Wave
PLT	TYP.	Wave
Design Calc:		
IN 2002 (1.00) / INB		
Cq/RT=1.00(1.25)/(10(0)	7.22-1.00	TY: 1
		FL/-4/-/-R/-
		Scale = .1875"/Ft.

Design Crit: TPI-2002(STD)/FBC

DESIGN CRITERIA 2002 (310)/100
Cq/RT=1.00(1.25)/10(0) 7.
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFERS TO BCS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583
MADISON, WI 53719), AND NITCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LN,
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED
TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL FALS AND BOTTOM CHORD SHALL HAVE 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 TO TRUSSES. ALPINE ENGINEERED PRODUCTS OF MARYLAND, INC. (A DIVISION OF ALPINE ENGINEERED PRODUCTS, INC.) SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/ALUMINUM PER THE FOLLOWING TABLES AND SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 166-2.

IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSV/TPI 1 SEC. 2.

PLT TYP. Wave

WARNING— THESE REQUIREMENTS FOR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI 1-03 (BUILDING COMPOSITE SAFETY INFORMATION), PUBLISHED BY TPI (GLASS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE CH, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE ATTACHED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID, CELLULAR

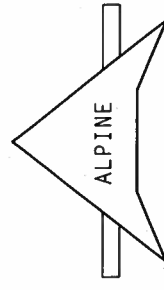
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSSES. ALPINE ENGINEERED PRODUCTS OF MARYLAND, INC. (A DIVISION OF ALPINE ENGINEERED PRODUCTS, INC.) SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO TRUSSES.

CONNECTION PLATES ARE MADE OF 20/ALUMINUM PER THE FOLLOWING SPECIFICATIONS: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND MATERIALS SHALL BE AS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND MATERIALS SHALL BE AS SHOWN ON THE DRAWINGS.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 166-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSV/TPI 1 SEC. 2.

TC LL	20.0	PSF	REF	R487 - -	58907
TC DL	10.0	PSF	DATE	01/05/06	
BC DL	10.0	PSF	DRW	HCUSR487	060005009
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	73157	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1STL487	Z02



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

FL Certificate of Authorization # 567

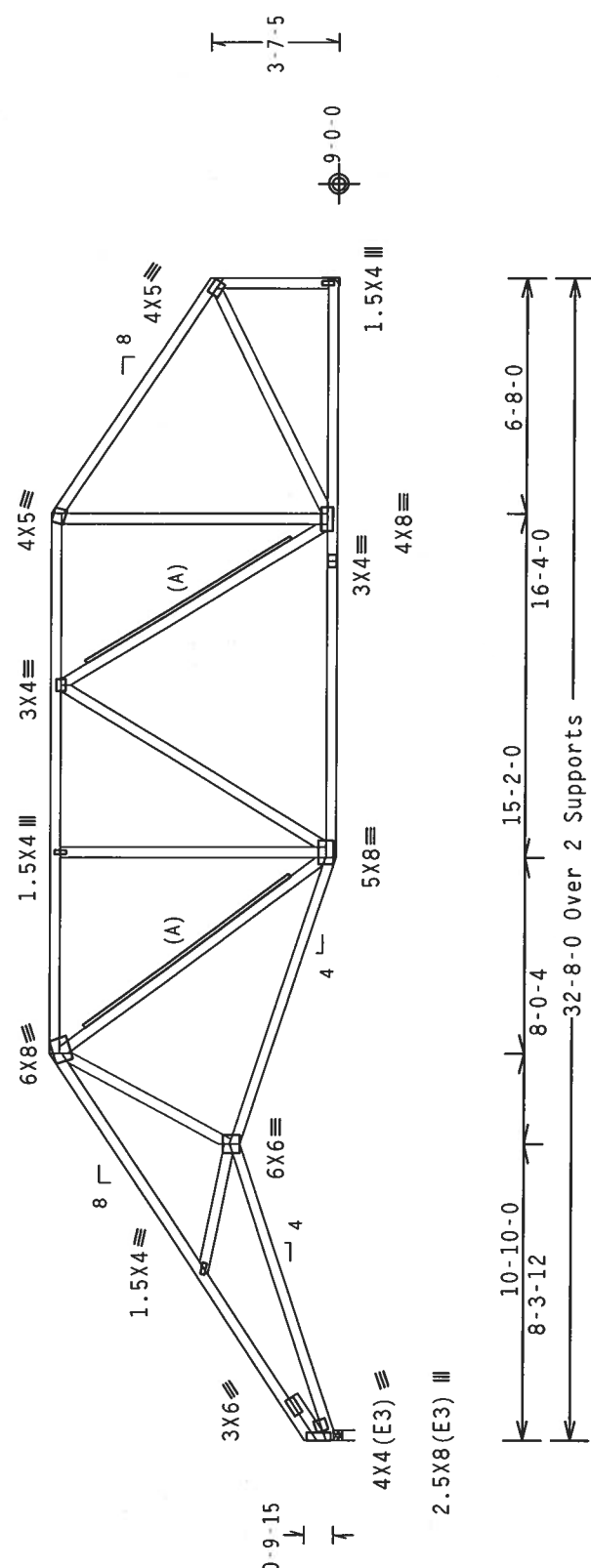
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Slider 2x4 SP #2 Dense: BLOCK LENGTH = 1.546'

Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.
(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.

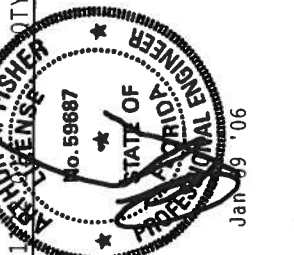
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.
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.



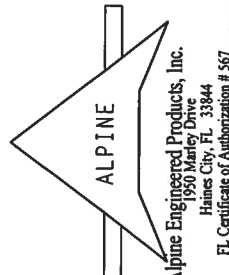
R=1377 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
R=1386 U=180 W=3.5"
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.13
Scale = .1875"/Ft.

PLT TYP. Wave	8-3-12	10-10-0	8-0-4	15-2-0	16-4-0	6-8-0
	32-8-0 Over 2 Supports					
	R=1386 U=180 W=3.5"					
	Design Crit: TPI-2002(STD)/FBC					
	Cq/RT=1.00(1.25)/10(0) 7.22.13					
	Scale = .1875"/Ft.					
	REF R487-- 58908					
	DATE 01/05/06					
	DRW HCUSR487 06005010					
	HC-ENG JB/AF					
	SEQN- 73144					
	DUR.FAC. 1.25					
	SPACING 24.0"					
	JREF- 1STL487_Z02					



WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI L-100 (BUILDING CODES) FOR TRUSS DESIGN AND INSTALLATION. TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE TRUSS. THE USER OF THIS TRUSS SHALL BE RESPONSIBLE FOR THE INSTALLATION AND BRACING OF THE TRUSS. THE USER SHALL FOLLOW THE INSTRUCTIONS PROVIDED BY THE TRUSS MANUFACTURER. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE TRUSS. THE USER SHALL FOLLOW THE INSTRUCTIONS PROVIDED BY THE TRUSS MANUFACTURER. THE USER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND BRACING OF THE TRUSS. THE USER SHALL FOLLOW THE INSTRUCTIONS PROVIDED BY THE TRUSS MANUFACTURER.

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 TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1. 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. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS THE DESIGNER'S ACCEPTANCE OF THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI1 SEC. 2.



and verticals not exposed to wind pressure.



*****WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583	CH 11-1-00 1.25 IVU 1.22.13 11:1 FL - 4 - - R - Scale = 1/8" = 1'-0"
*****WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583	CH 11-1-00 1.25 IVU 1.22.13 11:1 FL - 4 - - R - Scale = 1/8" = 1'-0"

ALPINE ENGINEERING
PRODUCTS, INC.
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.
SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.
ANY FAILURE TO BUILDING

WIND TUNNEL.

STATE OF
PHOENIX
COUNTY OF MARICOPA
SUPERVISOR

BC DL 10.0 PSF DRW HCUSR487 06005011

Alpine Engineered Products, Inc.
1950 Marley Drive

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.	Haines City, FL 33844 FL Certificate of Authorization # 567
SPACING	24.0"
JREF-	1STL487_Z02

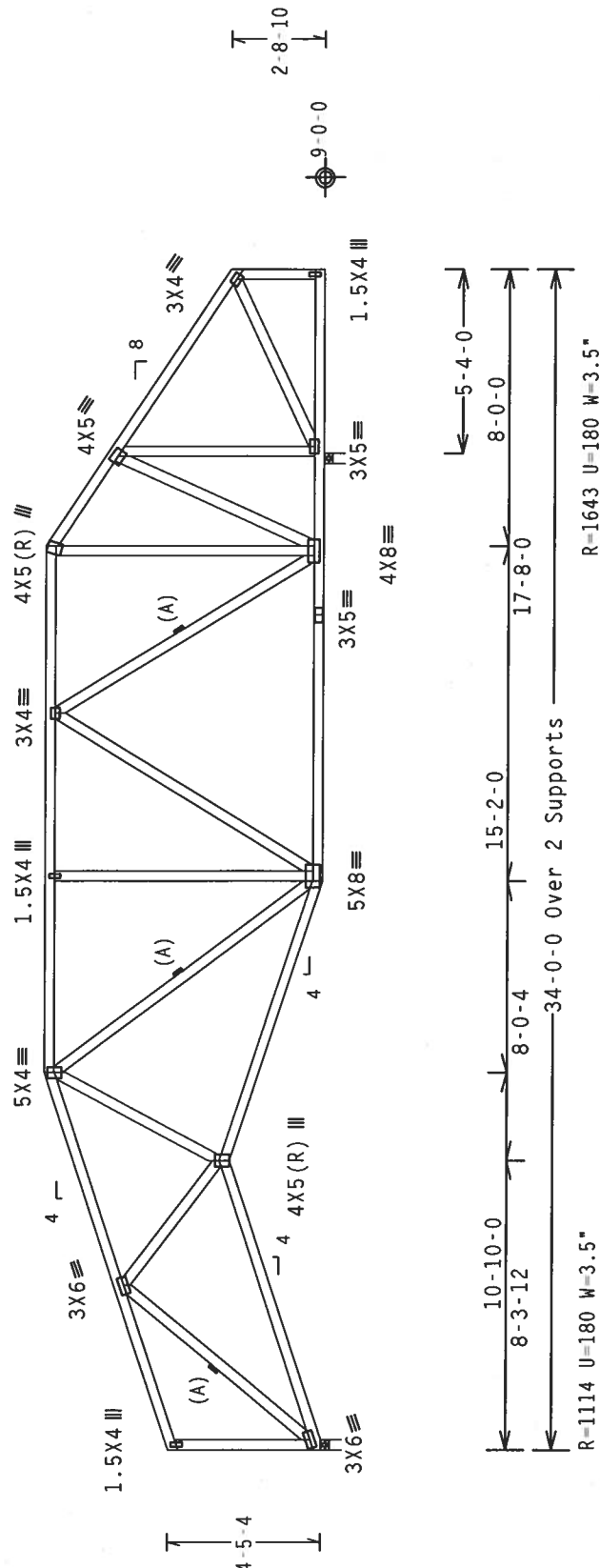
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASEC 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) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$C_a/RT = 1.00(1.25)/10(0) \quad 7$$

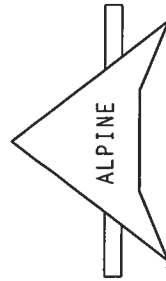
7.22.12

El / - / A / - / - / B / - / -

Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THESE TRUSSES ARE NOT TO BE USED AS A COMPONENT OF ANY OTHER STRUCTURE. FOR MORE INFORMATION, PUBLISHED BY TPI (TROSS PLATE INSTITUTE, 593 S. DUNFORD RD., SUITE 100, DUNFORD, PA 17015) OR CONTACT TPI DIRECTLY AT (717) 221-1111. FOR SAFETY REASONS, UNLESS OTHERWISE INDICATED, ALL TRUSSES MUST BE PROPERLY ATTACHED TO THE CHORDS AND BOTTOM 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 AND PRODUCTS, INC.. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ALPINE ENGINEERS TRUSS IN CONFORMANCE WITH TPI PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND BRACING OF TRUSSES. PROVIDER OF MATERIALS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. ALPINE CONNECTOR PLATES ARE MADE OF 6061-T6 ALUMINUM. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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 INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. SUBMITTALS FOR REVIEW OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNUAL/TPI 1 SEC.2.



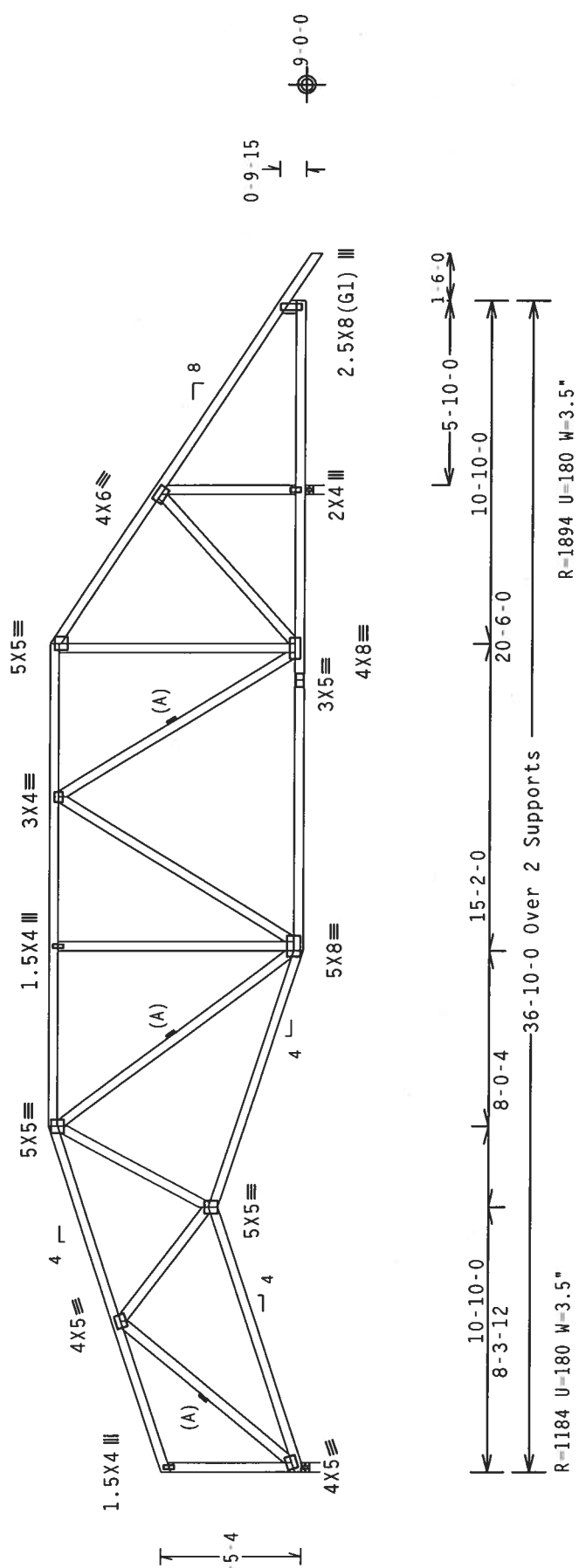
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567

JREF- 1STL487 Z02

FL Certificate of Authorization # 567	BUILDING DESIGNER PER ANSI/ISO 1 SEC. 2: TAMPA CITY, FL 33699	SPACING 24.0"	JREF- 1STL487_Z02
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Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Rt Stubby Wedge 2x6 SP #2:
Left end vertical not exposed to wind pressure.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M. K/M-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWINGS INDICATE ACCEPTANCE OF PROFESSIONAL ENGINEER AND SEAL ON THIS DRAWING FOR THE TRUSS COMPONENT. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Scale = .1875" / Ft.

REF	R487--	58912
DATE	01/05/06	
DRW	HCUSR487	06005014
HC-ENG	JB/AF	
SEQN-	73054	
DUR.FAC.	1.25	
SPACING	24.0"	

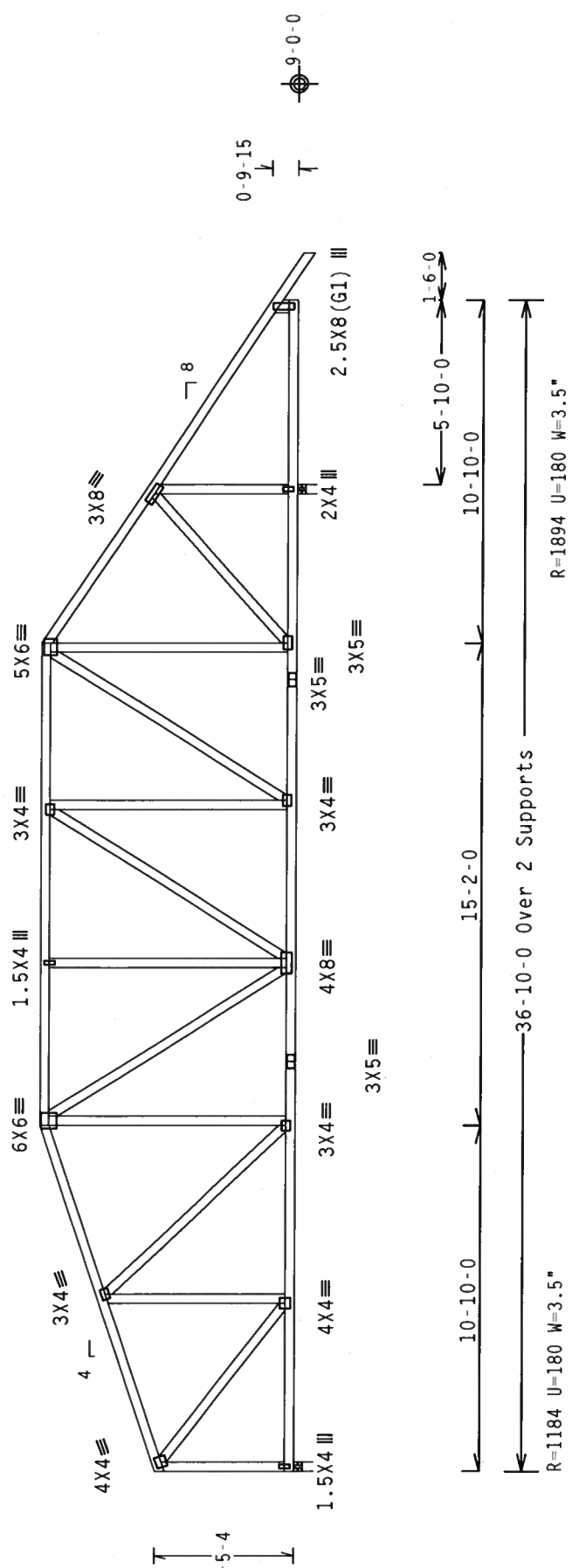
JAN 09 '06

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

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- 1STL487_Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Rt Stubbed Wedge 2x6 SP #2:
Left end vertical not exposed to wind pressure.
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
Cq/RT=1.00(1.25)/10(0) 7.22

Scale = .1875"/Ft.

REF R487-- 58913

DATE 01/05/06

DRW HCUSR487 06005015

HC-ENG JB/AF

SEQN- 72959

DUR.FAC. 1.25

SPACING 24.0"

JREF- 1STL487_Z02

ALPINE

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

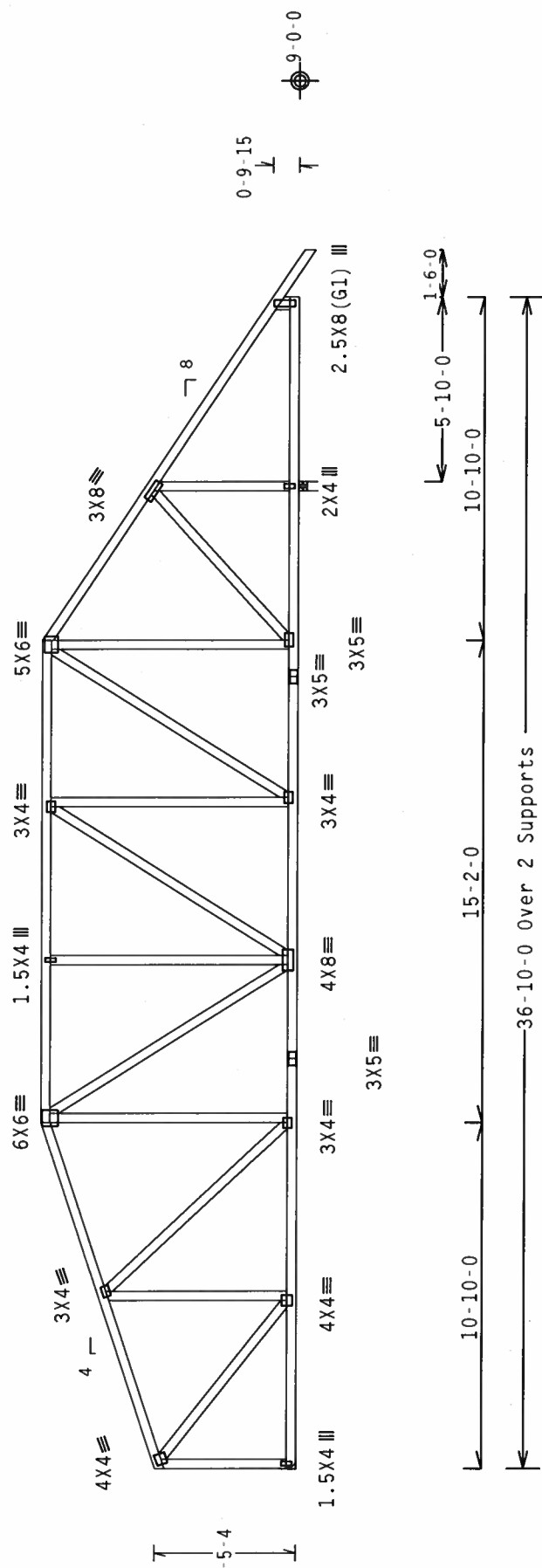
FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND AISC (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. APPLY CONNECTOR PLATES ARE MADE OF 2018/16GA (N-H/S/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY SIGNATURE OF DESIGNER. POSITION PER DRAWINGS 160A-2. 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.

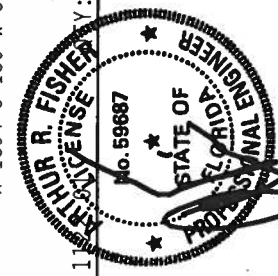
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Rt Stubbed Wedge 2x6 SP #2:
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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.



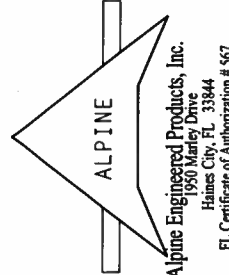
R=184 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11
R-1894 U=180 W=3.5"

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"
REF	R487-- 58914
DATE	01/05/06
DRW	HCUSR487 06005016
HC-ENG	JB/AF
SEQN-	72968
JREF-	1STL487_Z02



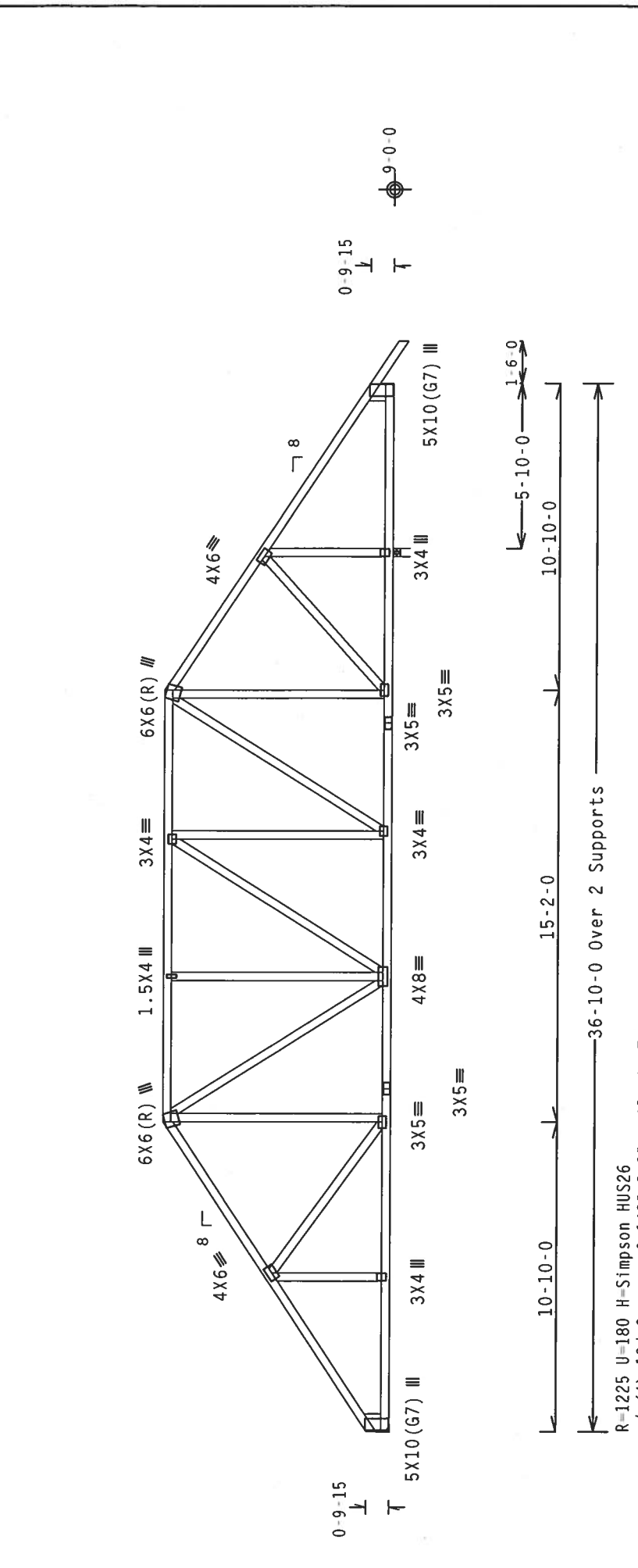
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCES 1-03 (BUILDING COMPONENT SAFETY INFORMATION) AND TPI-2002(STD)/FBC FOR ADDITIONAL INFORMATION. THIS TRUSS IS DESIGNED TO BE USED IN CONFORMANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR STEEL BUILDINGS (AISC 360-10) AND THE NATIONAL SPECIFICATION FOR BRIDGE DESIGN (AASHTO LRFD 6th Edition). TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI-2002(STD)/FBC. 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-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



PLT TYP. Wave

R=1225 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. Pi Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.

Scale = .1875" / Ft.

REF	R487--	58915
DATE	01/05/06	
DRW	HCUSR487	06005017
HC-ENG	JB/AF	
SEQN-	72993	
DUR.FAC.	1.25	
SPACING	24.0"	

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

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

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE BUILDING SAFETY COUNCIL, 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 (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 SHOWN. THE SULTANATE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SULTANATE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

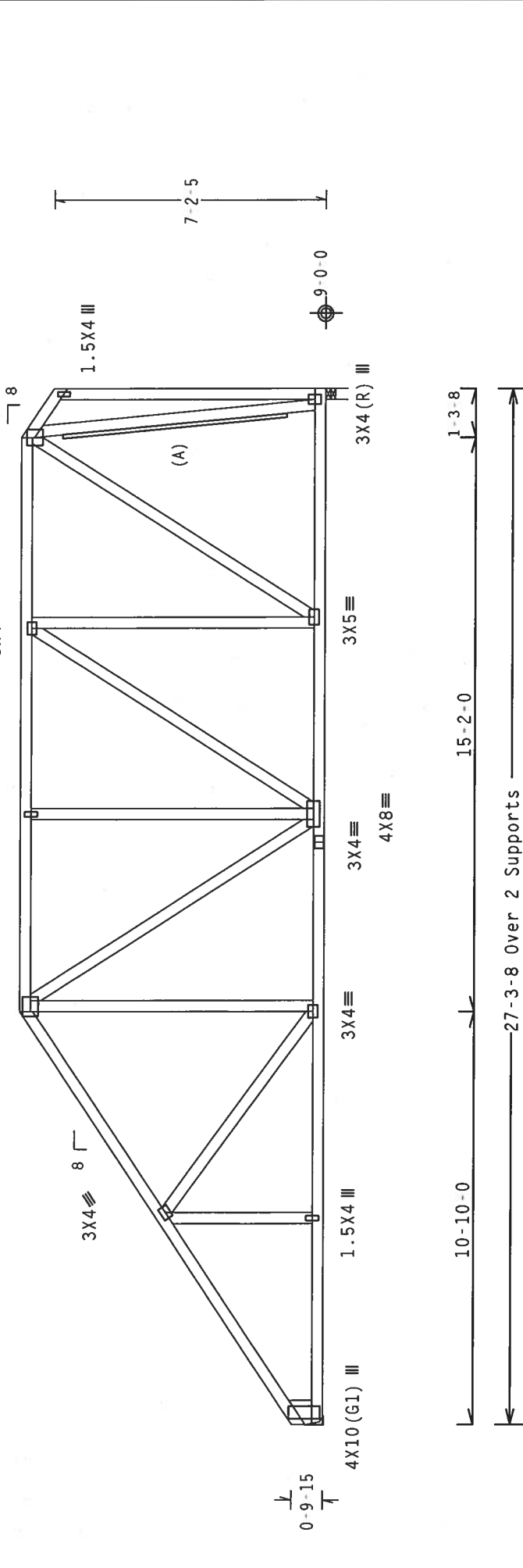
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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.

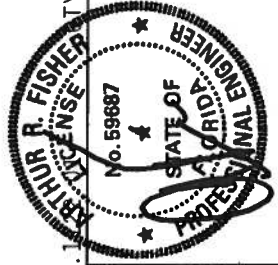
Right end vertical not exposed to wind pressure.

(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.



R=1147 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
Cq/RT=1.00(1.25)/10(0) 7.22.1
Scale = .25"/Ft.

PLT TYP. Wave	7.22.1	FL/-4/-R/-	REF R487-- 58916
		TC LL 20.0 PSF	DATE 01/05/06
		TC DL 10.0 PSF	DRW HCUSR487 06005018
		BC DL 10.0 PSF	HC-ENG JB/AF
		BC LL 0.0 PSF	SEQN- 73013
		TOT.LD. 40.0 PSF	
		DUR.FAC. 1.25	
		SPACING 24.0"	JREF- 1STL487_Z02



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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. APPLY CONNECTOR PLATES ARE MADE OF 20/10/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWN THE SUFFICIENCY OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUFFICIENCY OF 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

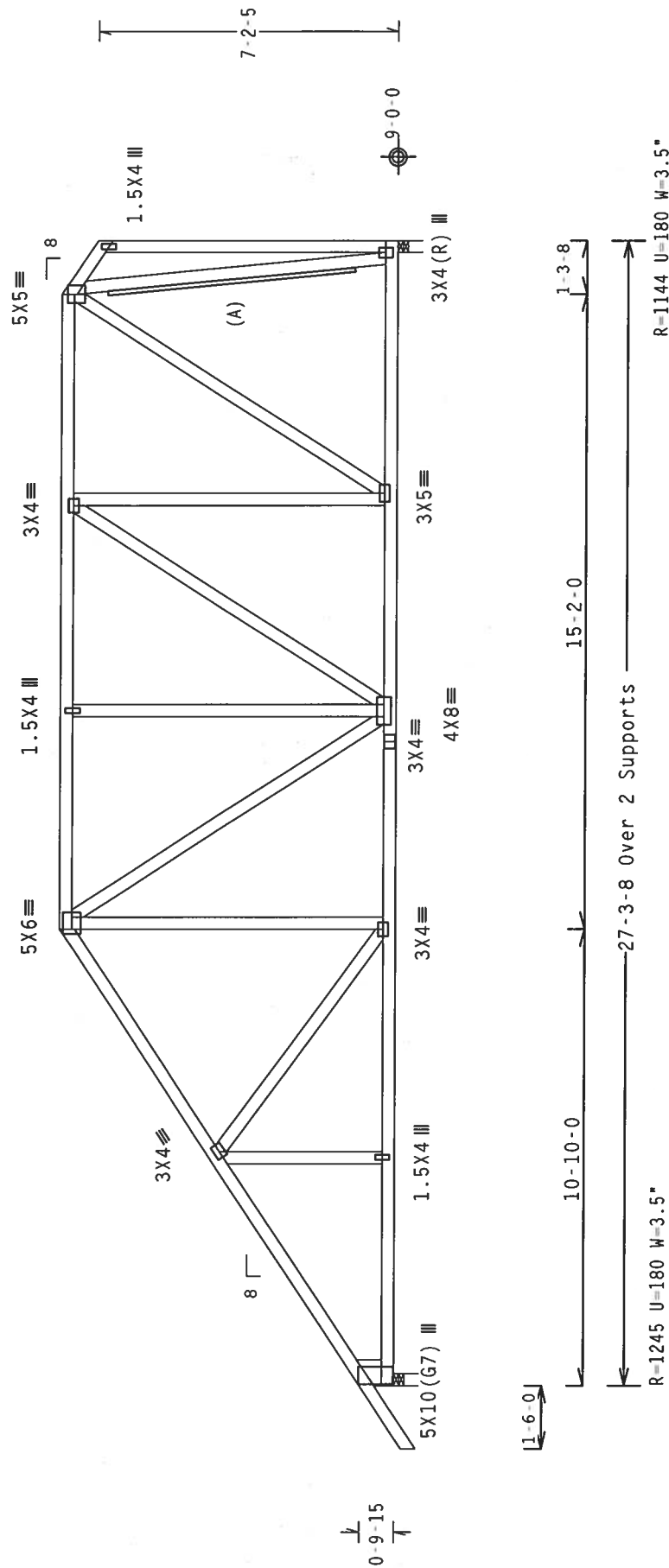
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Stubbed Wedge 2x8 SP SS:

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

Right end vertical not exposed to wind pressure.

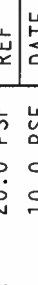
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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



PLT TYP. Wave

Scale = .25"/Ft.



Alpine Engineered Products, Inc.
 1350 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 (ALPINE PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, MI 53719) AND METAL TRUSS COUNCIL OF AMERICA (151 W. MADISON, MI 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 TRUSSES IN CONFORMANCE WITH TP11-1000 INSTALLATION SPEC. MAY BE CAUSE FOR REJECTION OF THE TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY CRETA) AND TP11-1000 STEEL CONNECTION PLATES ARE MADE OF 20/18/16GA (M/M/S/K) ASTM A563 GRADE 40/60 (M/M/S) GALV STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY TP11 SHALL BE PER ANNEX A3 OF TP11-2002 SEC-3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

Jan 09 '06

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 59687

TC LL	20.0	PSF	REF R487 --	58917
TC DL	10.0	PSF	DATE	01/05/06
BC DL	10.0	PSF	DRW HCUSR487	06005019
BC LL	0.0	PSF	HC-ENG JB/AF	
TOT.LD.	40.0	PSF	SEQN-	73022
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1STL487_Z02

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

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Haines City, FL 33844

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.

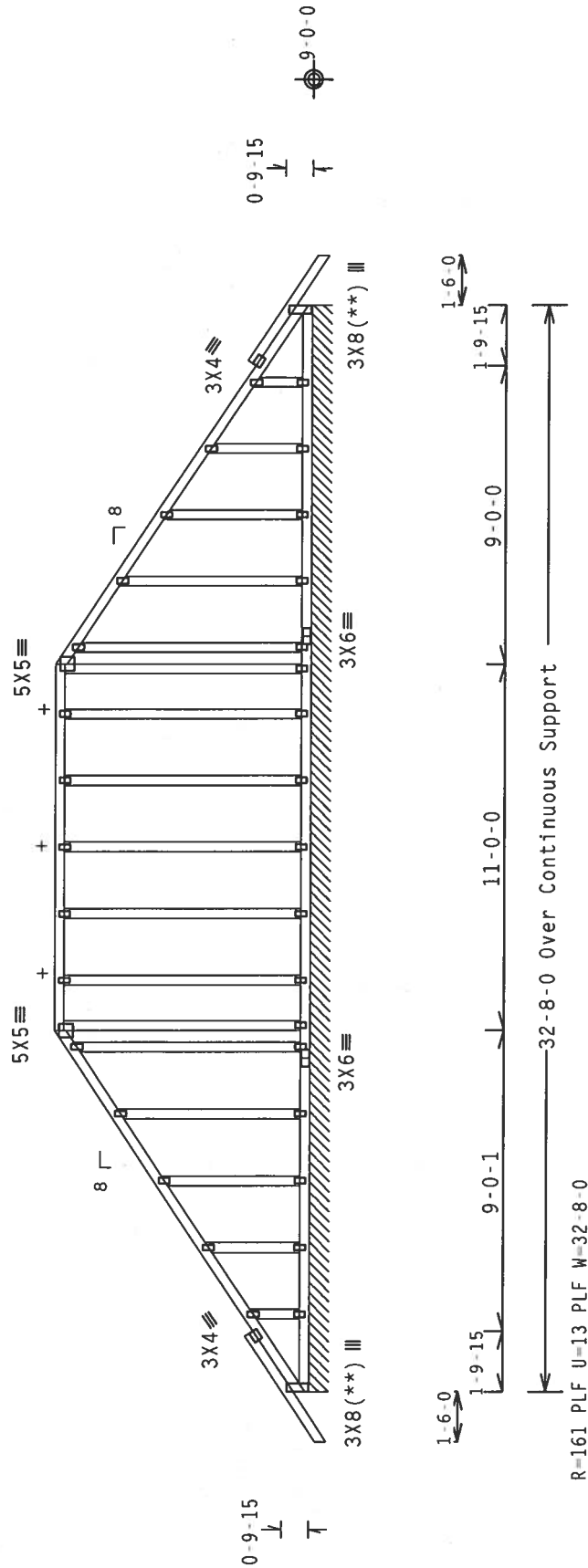
Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers.
Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

(**) Plate relocated as shown.

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.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

 $C\alpha/RT=1.00(1.25)/10(0)$ 7 22.11

EL / - / A / - / - / R / -

Scale = .1875"/Ft.

***WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TRUSS MANUFACTURER'S INSTRUCTIONS FOR PROPER TRUSS HANDLING AND BRACING. (SEE TRUSS MANUFACTURER'S INSTRUCTIONS FOR TRUSS INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 593 WEST 10TH AVENUE, SUITE 200, MADISON, WISCONSIN 53719).
DOWRIPLO DR. SUITE 200, MADISON, WISCONSIN 53719.
MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. THESE OPERATIONS INDICATED ON THIS DRAWING ARE TO BE PERFORMED BY A PERSON PROPERLY TRAINED AND CERTIFIED TO PERFORM THESE OPERATIONS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TOP CHORD CEILING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS CONCERNED SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CONFORMING WITH SPECIFICATIONS (INCLUDING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES) SHALL BE AT THE USER'S RISK. THE FOLLOWING INFORMATION IS FOR THE USER'S INFORMATION ONLY. ALPINE ENGINEERED TRUSS COMPANY HAS NO LIABILITY FOR THE USE OR ABUSE OF THIS DESIGN SPEC. BY ARPAK AND TP1.

ALPINE TRUSSES ARE MADE OF 2018/16GALN H/W/S ASTM A992 STEEL DESIGN SPEC. BOLT TYPE 70 PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS POSITION PER ANNEX C.2.7. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



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

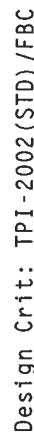
FL Certificate of Authorization # 567
Haines City, FL 33844



Jan 09 '06

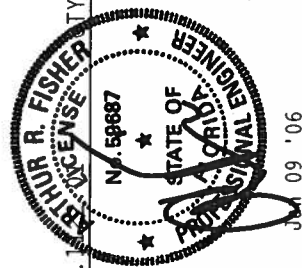
TC LL	20.0	PSF	REF R487-- 58919
TC DL	10.0	PSF	DATE 01/05/06
BC DL	10.0	PSF	DRW HCUSR487 06005021
BC LL	0.0	PSF	HC-ENG JB/AF
TOT.LD.	40.0	PSF	SEQN- 132783 REV
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1STL487_Z02

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

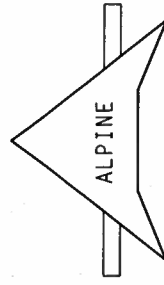


Scale = .1875" / Ft.

TC LL	20.0	PSF	REF	R487--	58920
TC DL	10.0	PSF	DATE	01/05/06	
BC DL	10.0	PSF	DRW	HCUSR487	06005022
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	72933	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1STL487_Z02	



****IMPORTANT****—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS & ARCHITECTS, 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 IN CONFORMANCE WITH TP2 OR PROVIDING OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TP1, TRUSS CONNECTOR PLATES ARE MADE OF STEEL. THE TRUSS CONNECTOR PLATES ARE TO BE WELDED TO THE TRUSS 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 ANEX A OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE REMAINDER OF THIS CONTRACT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANEX 111-2 SEC.2.



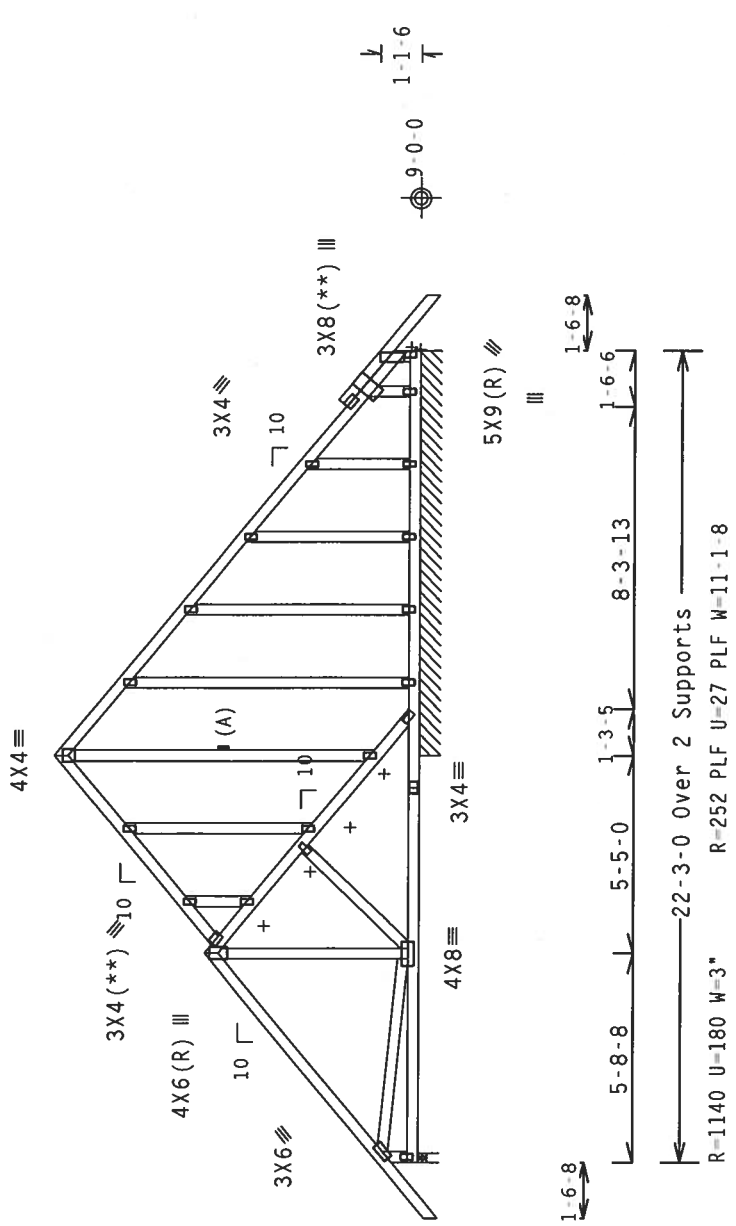
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

SPECIAL LOADS

- TC - From 92 PLF at -1.54 to 92 PLF at 0.00
- TC - From 103 PLF at 0.00 to 150 PLF at 5.71
- TC - From 180 PLF at 5.71 to 219 PLF at 11.42
- TC - From 189 PLF at 11.42 to 181 PLF at 12.40
- TC - From 181 PLF at 12.40 to 110 PLF at 20.91
- TC - From 114 PLF at 20.91 to 103 PLF at 22.25
- TC - From 92 PLF at 22.25 to 92 PLF at 23.79
- BC - From 10 PLF at 0.00 to 10 PLF at 22.25

+ MEMBER TO BE Laterally Braced For Horizontal Wind Loads.
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

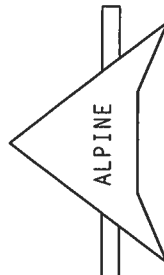
Cq/RT=1.00(1.25)/10(0)

7.22

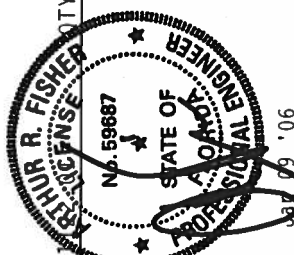
Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 1500 ENTERPRISE BLVD, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE BLVD, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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 DESIGNING THE TRUSS. THE SUBMITTER'S USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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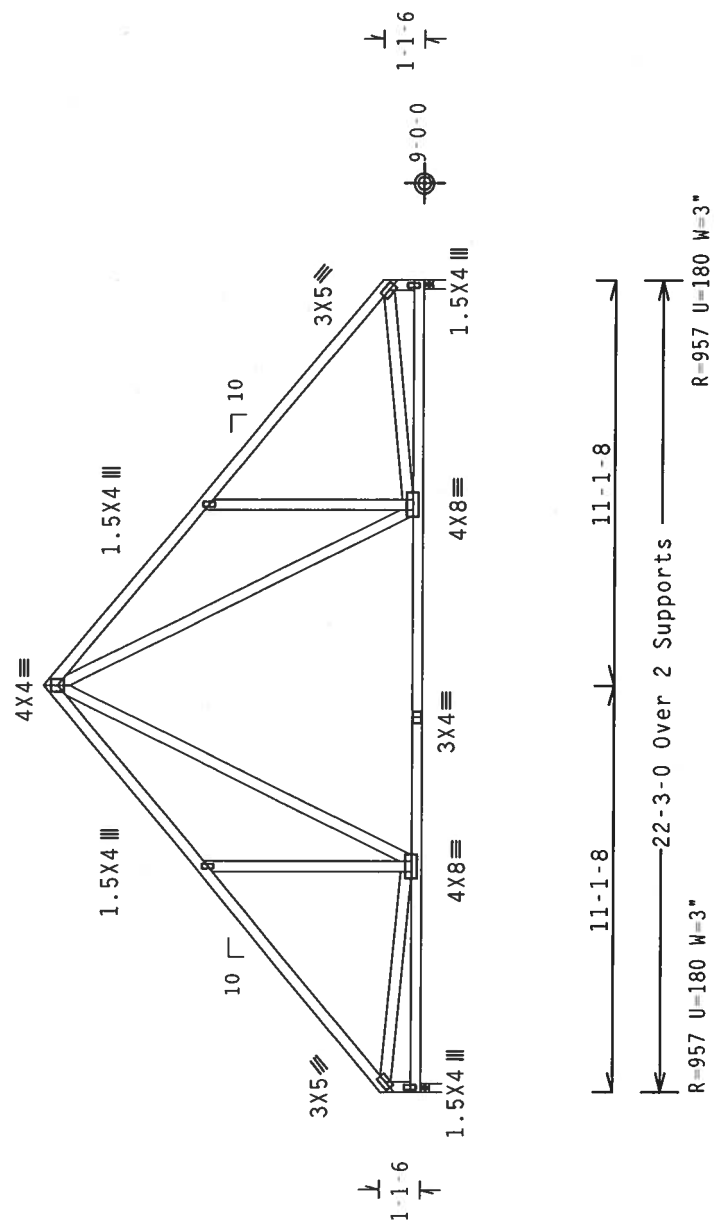
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF R487-- 58922
DATE 01/05/06
DRW HCUSR487 06005024
HC-ENG JB/AF
SEQN- 132801 REV
JREF- 1STL487_Z02

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

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

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



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.22.11	Scale = .1875"/Ft.
ALPINE		TC LL	20.0 PSF
ALPINE		TC DL	10.0 PSF
ALPINE		BC DL	10.0 PSF
ALPINE		BC LL	0.0 PSF
ALPINE		TOT.LD.	40.0 PSF
ALPINE		DUR.FAC.	1.25
ALPINE		SPACING	24.0"
ALPINE		REF	R487 -- 58924
ALPINE		DATE	01/05/06
ALPINE		DRW	HCUSR487 06005026
ALPINE		HC-ENG	JB/AF
ALPINE		SEON-	72746
ALPINE		JREF-	1STL487_Z02

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

SPECIAL LOADS

TC - From	95 PLF at 1.54 to 95 PLF at 0.00
TC - From	109 PLF at 0.00 to 122 PLF at 1.29
TC - From	122 PLF at 1.29 to 167 PLF at 5.88
TC - From	193 PLF at 5.88 to 215 PLF at 8.04
TC - From	215 PLF at 8.04 to 215 PLF at 12.90
TC - From	185 PLF at 12.90 to 185 PLF at 14.04
TC - From	185 PLF at 14.04 to 115 PLF at 21.00
TC - From	119 PLF at 21.00 to 109 PLF at 22.08
TC - From	95 PLF at 22.08 to 109 PLF at 23.62
TC - From	10 PLF at 0.00 to 10 PLF at 22.08



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

Calculated horizontal deflection is 0.19" due to live load and 0.51" due to dead load.

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

See DWGS A11015EE0405 & G8LLETIN0405 for more requirements.

(A) 1x4 SP #3 or better "L" 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.

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

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

Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/(10.0) 7.22.1

PLT TYP. Wave

Scale = .1875"/Ft.

REF	R487--	58925
DATE	01/05/06	
DRW	HCUSR487	06005027
HC-ENG	JB/AF	
SEQN-	72883	REV
DUR.FAC.	1.25	
SPACING	24.0"	

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ALPINE ENGINEER
No. 59887
STATE OF FLORIDA
PROFESSIONAL ENGINEER

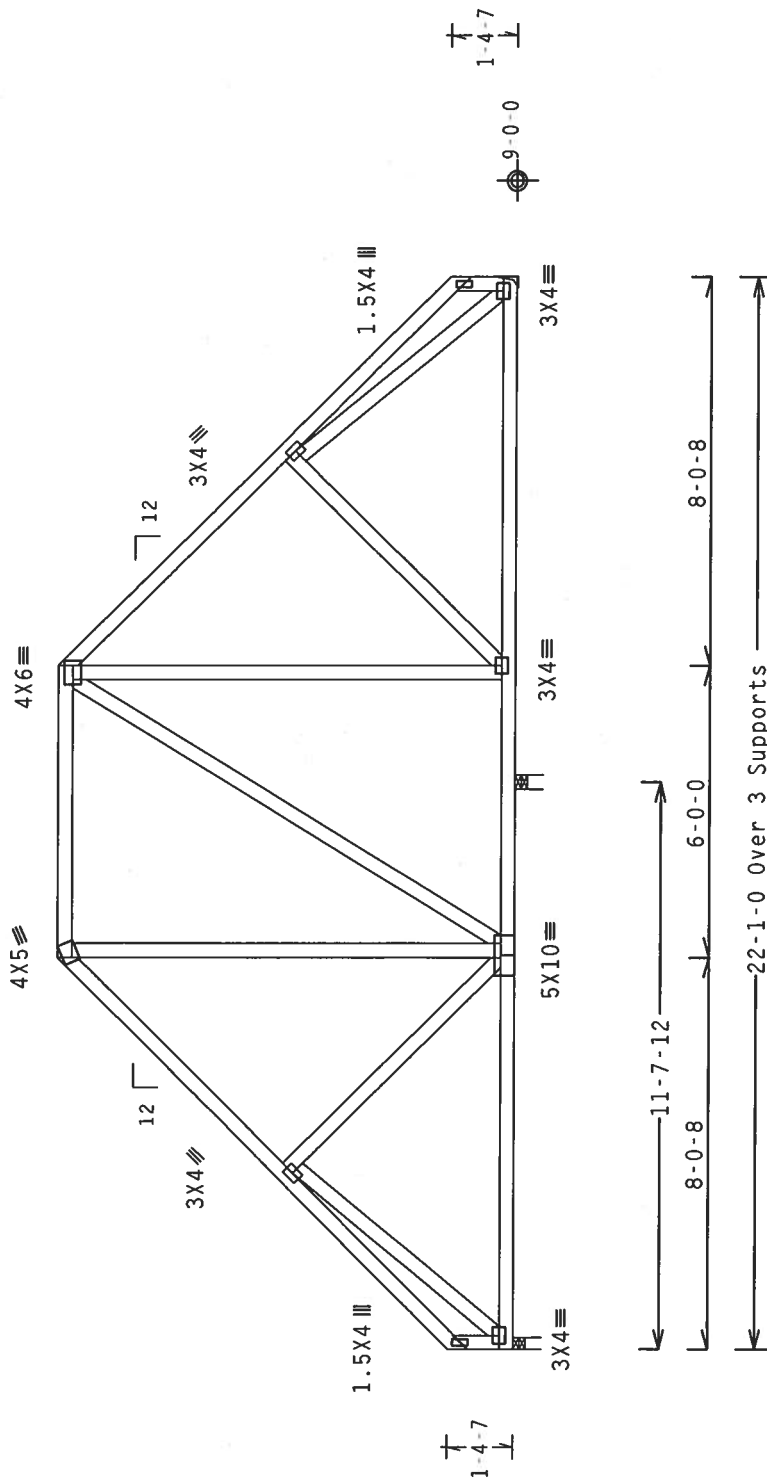
Jan 09 '06

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

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

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-962 U-180 W-3rd

R=27 H=180 W=35"

P=960 IL=180 H=Simsco 11526

W/ (4) 10d Common, 0.148"x3.0" nails in Truss
W/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

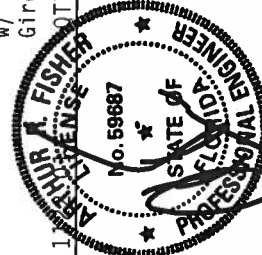
Scale = .25"/Ft.

PLT TYP. Wave

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 FOLLOWING COMPONENTS INFORMATION. TRUSSES BY TPI (TRUSS PEAKE ENTERPRISE, 583 S. DOWNEY RD., SUITE 200, MOORE, OK 73160) OR TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719). FOR SAFETY REASONS, THE TOP AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHAILING.

[illegible]

Jan 03 '06

TC LL	20.0	PSF	REF R487-- 58926
TC DL	10.0	PSF	DATE 01/05/06
BC DL	10.0	PSF	DRW HCUR487 06005028
BC LL	0.0	PSF	HC-ENG JB/AF
TOT.LD.	40.0	PSF	SEQN- 72824
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1STL487 Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #2
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.635'

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 I, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Girder supports 32'-8" span to BC one face and 2'-0" span to TC/BC split opposite face.

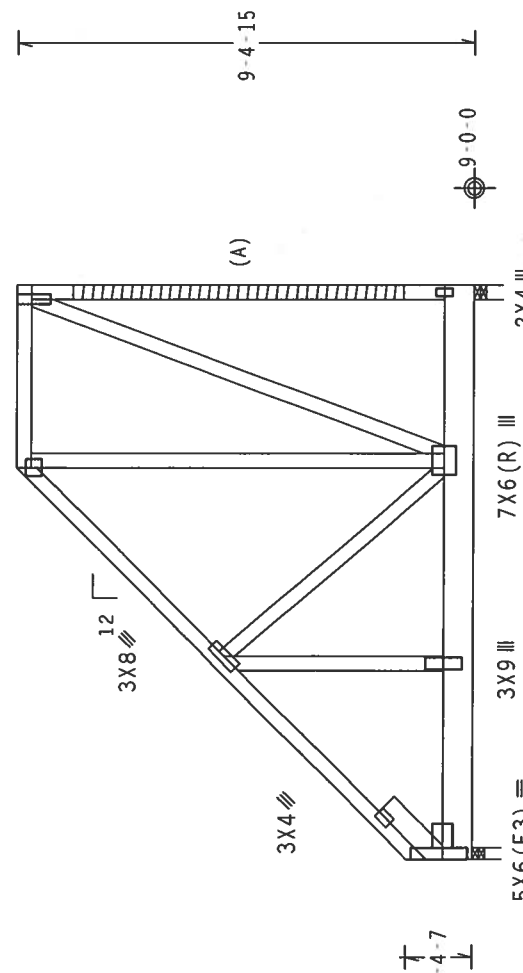
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @5.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

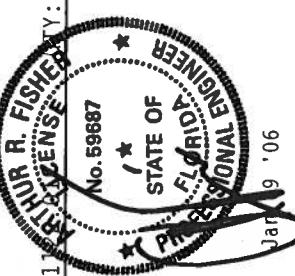
Right end vertical not exposed to wind pressure.

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

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



8'-0-8
11'-9-8 Over 2 Supports
R-4258 U=331 W=3"
R-4258 U=331 W=3.5"



PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.11
Scale = .25" / Ft.

TC LL	20.0 PSF	FL / - / 4 / - / - / R / -
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--	58927
DATE	01/05/06	
DRW	HCUSR487	06005029
HC-ENG	JB/AF	
SEQN	73209	
JREF	1STL487_Z02	

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Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3
:Lt Stubbed Wedge 2x4 SP #3

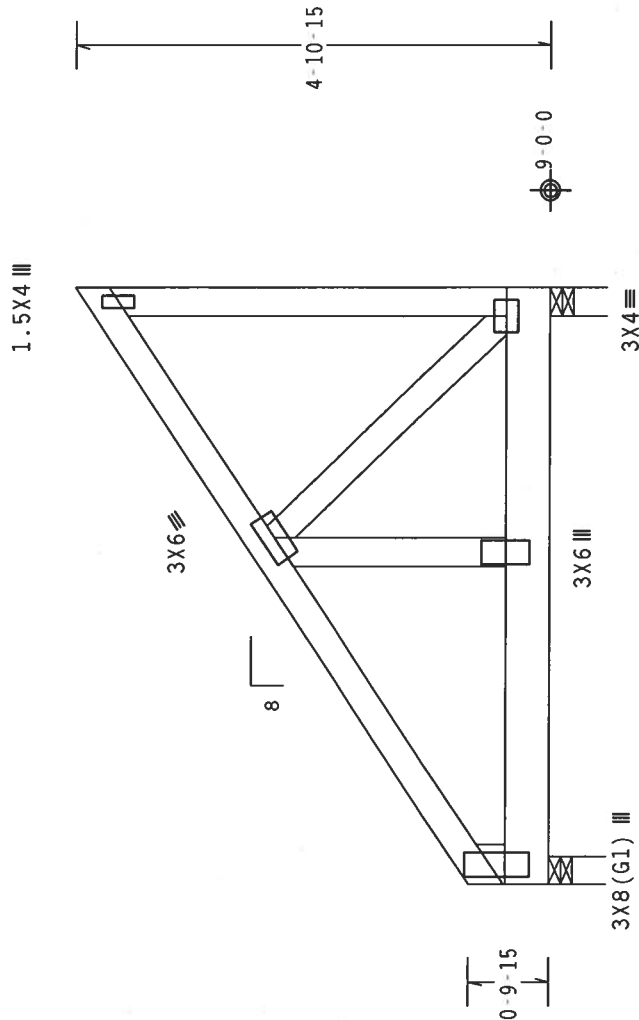
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3
:L: Stubbed Wedge 2x4 SP #3:

SPECIAL LOADS

	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC	From 64 PLF at 0.00 to 64 PLF at 6.13
BC	From 20 PLF at 0.00 to 20 PLF at 6.13
BC	960 LB Conc. Load at 0.56, 2.56

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.



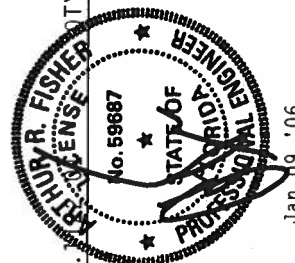
6-1-8 Over 2 Supports $\rightarrow$
 $R=1688$ $U=180$ $W=3.5"$
 $R=747$ $U=180$ $W=3.5"$

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

 $C_q/RT=1.00(1.25)/10(0) \quad 7.$

Scale = .5"/Ft.

TC LL	20.0 PSF	REF R487 - - 58928
TC DL	10.0 PSF	DATE 01/05/06
BC DL	10.0 PSF	DRW HCUR487 06005030
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 72837
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1STL487_Z02



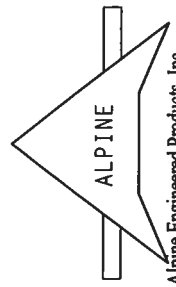
Jan 09 '06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-70 (BUILDING COMPONENT SAFETY INFORMATION), TRUSS PUBLISHED BY TPI (TRUSS PLATE ENTERPRISE, 593 MADISON RD, DRIE TOWNE, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR, MADISON, WI 53719) FOR SPECIFIC INFORMATION REGARDING THE PROPER USE OF TRUSSES IN PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ALPINE ENGINEERING SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.

CONNECTIONS TO EXISTING TRUSSES (NOTIONAL SPEC BY ATAPA) AND STEEL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2 THROUGH 160A-7 SHALL BE AS SHOWN ON THIS DESIGN. A SEALING ON THIS INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.

THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. NO OTHER PART OF THIS DOCUMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX(TP1) 1 SEC. 2.

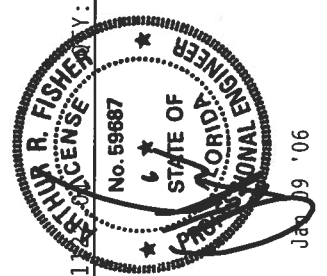
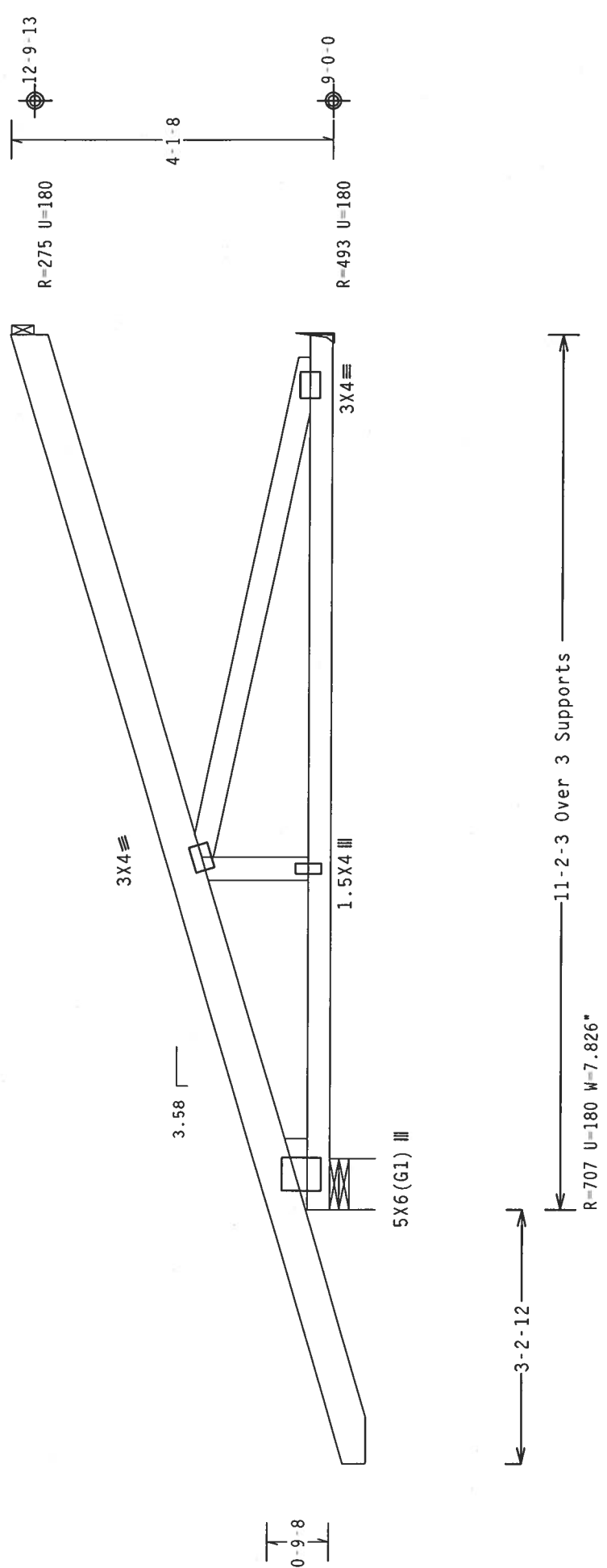


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1950 Marley Drive
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Fl. Certificate of Authorization # S67

FL Certificate of Authorization # 567
Haines City, FL 33844

Top chord 2x6 SP #2
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Stubbed Wedge 2x4 SP #3:
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0
psf.
Hipjack supports 7-10-14 setback jacks with no webs.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.

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



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

Scale = .5"/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, 593 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****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/X) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWINGS INDICATE THE ACCEPTANCE OF PROFESSIONAL ENGINEER. THE SEAL ON THIS DRAWING IS THE SEAL OF THE BUILDING DESIGNER PER ANSII/TPI 1 SEC. 2.

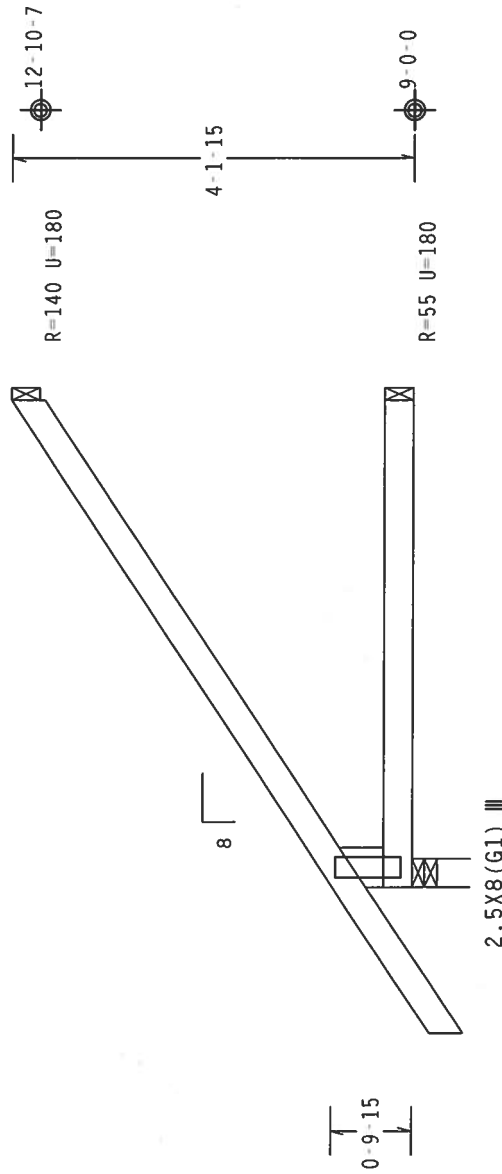
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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
: Lt Stubby Wedge 2x6 SP #2:

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

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→

←5-0-0 Over 3 Supports→
R=329 U=180 W=3.5"

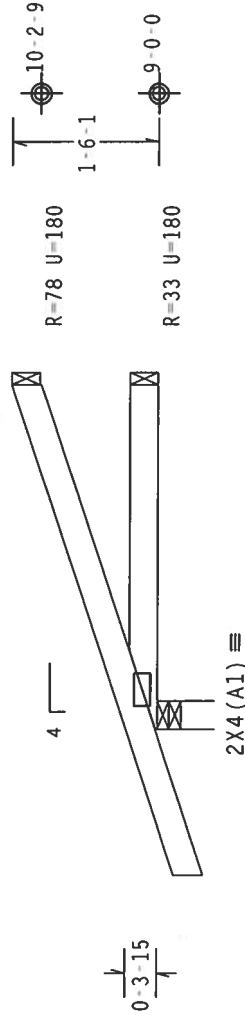
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

PLT TYP. Wave	7.22.11	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, 1500 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&P) 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. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S SEAL ON THIS TRUSS 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.			
ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567		TC LL 20.0 PSF	REF R487-- 58930
		TC DL 10.0 PSF	DATE 01/05/06
		BC DL 10.0 PSF	DRW HCUSR487 06005032
		BC LL 0.0 PSF	HC-ENG JB/AF
		TOT.LD. 40.0 PSF	SEON- 72613
		DUR.FAC. 1.25	
		SPACING 24.0"	JREF- 1STL487_Z02

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

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

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

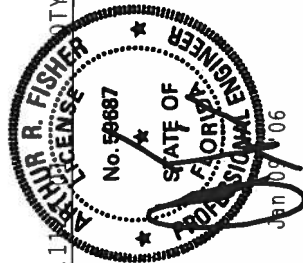


3-6-7 Over 3 Supports
R=273 U=180 W=3.5"

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

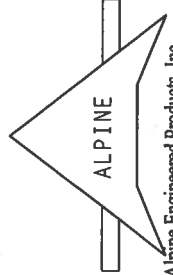
Scale = 5"/Ft.

TC LL	20.0	PSF	REF R487-- 58931
TC DL	10.0	PSF	DATE 01/05/06
BC DL	10.0	PSF	DRW HCURS487 06005004
BC LL	0.0	PSF	HC-ENG JB/AF *
TOT.LD.	40.0	PSF	SEQN- 72600
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1STL487_Z02



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL WOOD TRUSS COUNCIL, 10800 W. 12TH AVE., SUITE 200, MADISON, WI 53719, AND NCA (WOOD TRUSS COUNCIL OF AMERICA) GOOD INTERPRACTICES, 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 CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE TRUSS SHALL BE DESIGNED TO MEET THE NATIONAL DESIGN SPEC. (BY ATAPA) AND TYPE 1 ALPINE TRUSS. CONNECTOR PLATES ARE MADE OF 1015/1018 ALUMINUM 1/2" THICK. THE TRUSS SHALL BE BUILT WITH 160A Z 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 ANEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT MANUFACTURER. THE USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANEX TP11-1 SEC. 3.



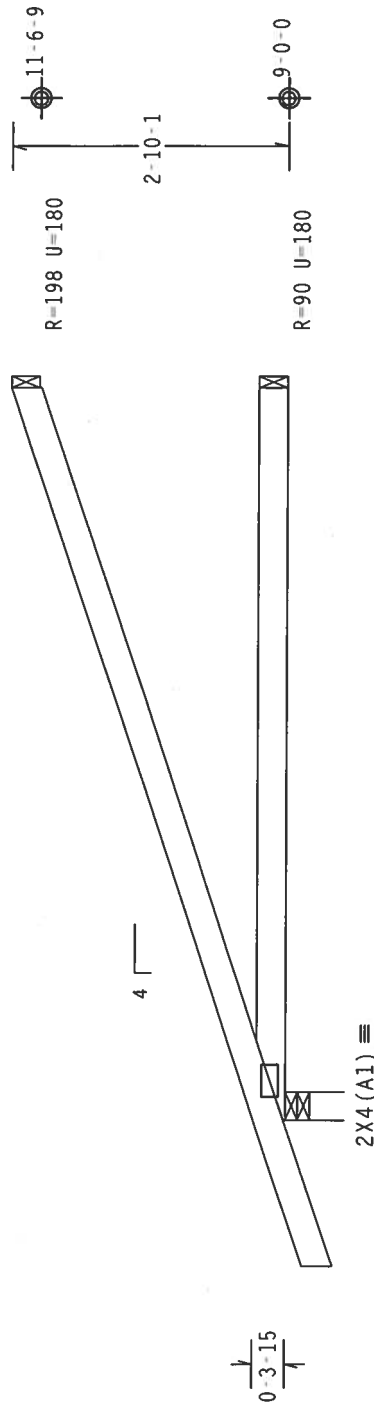
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

FL Certificate of Authorization # S67

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.

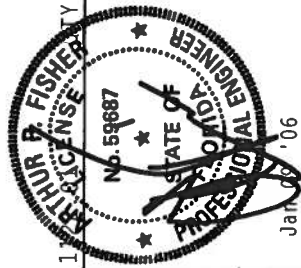


$\overleftarrow{\text{1-6-0}}$
 $\overleftarrow{\text{7-6-7}}$ Over 3 Supports
 $\overrightarrow{\text{R=421 U=180 W=3.5}}$

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

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R487--	58932
TC DL	10.0 PSF	DATE	01/05/06	
BC DL	10.0 PSF	DRW	HCUSR487	06005033
BC LL	0.0 PSF	HC-ENG JB/AF		
TOT.LD.	40.0 PSF	SEQN	72603	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1STL487 Z02	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'CONNOR RD., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., SUITE 300, WESTFIELD, WI 53091) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP BOARD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TOP-TOE CELLS.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. A JOINT ENGINEER
 TRUSS IN CONFORMANCE WITH TPI. OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
 DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE
 PLATES TO EACH FACE OF TROUSERS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.2.
 ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI 1 2002 SEC.3.
 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
 OF THIS CONTRACT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX 1 1 SEC.2



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

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
: Lt Stubby Wedge 2x6 SP #2:

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.

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



2.5X8(G1) III

0-9-15

0-11-11 Over 3 Supports

R=224 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.

PLT TYP. Wave

REF R487 -- 58933

DATE 01/05/06

DRW HCUSR487 06005034

HC-ENG JB/AF

SEQN- 72605

DUR.FAC. 1.25

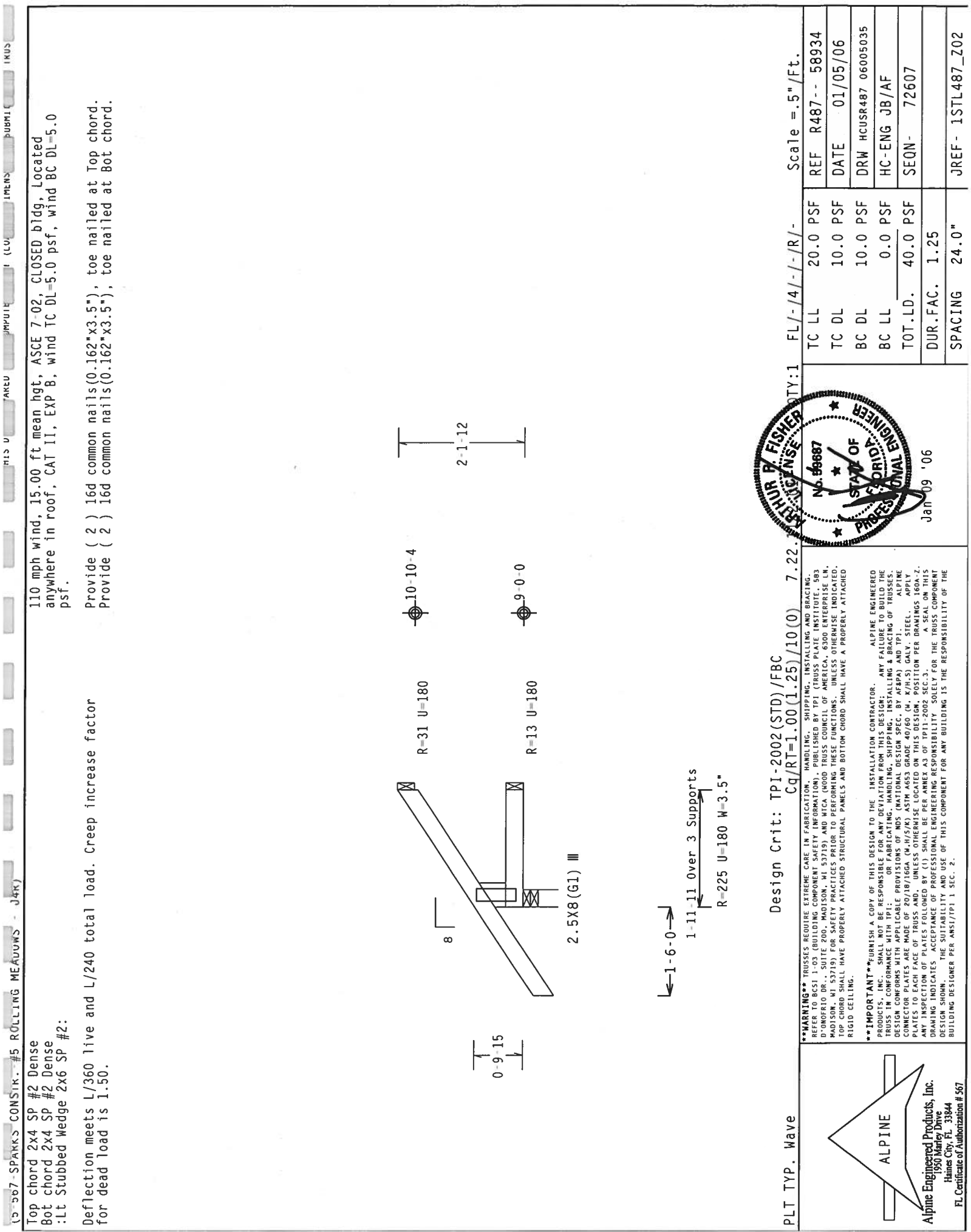
SPACING 24.0"

JREF- 1STL487_Z02

ALPINE

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

Jan 09 '06



Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Lt Stubbed Wedge 2x6 SP #2:
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.

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

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.
Scale = .5" / Ft.

PLT TYP. Wave

1-11-11 Over 3 Supports
R-225 U=180 W=3.5"

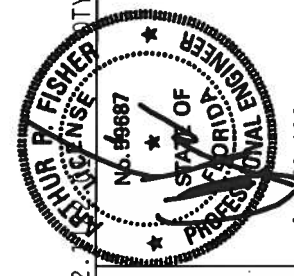
2.5X8 (G1)

R-31 U=180
R-13 U=180

0-9-15
2-1-12

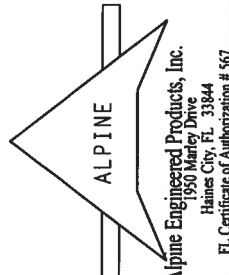
8

15-567-SPARKS CONSTR. #5 ROLLING MEADOWS - J&K



****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 PRODUCTIONS, INC.), 13 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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

REF	R487 -- 58934
DATE	01/05/06
DRW	HCUSR487 06005035
HC-ENG	JB/AF
SEQN-	72607
JREF-	1STL487_Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
:Lt Stubby Wedge 2x6 SP #2:
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.



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

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

PLT TYP. Wave

Scale =.5"/Ft.

REF R487 -- 58935
DATE 01/05/06
DRW HCUSR487 06005036
HC-ENG JB/AF
SEQN- 72609
JREF- 1STL487_Z02

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"

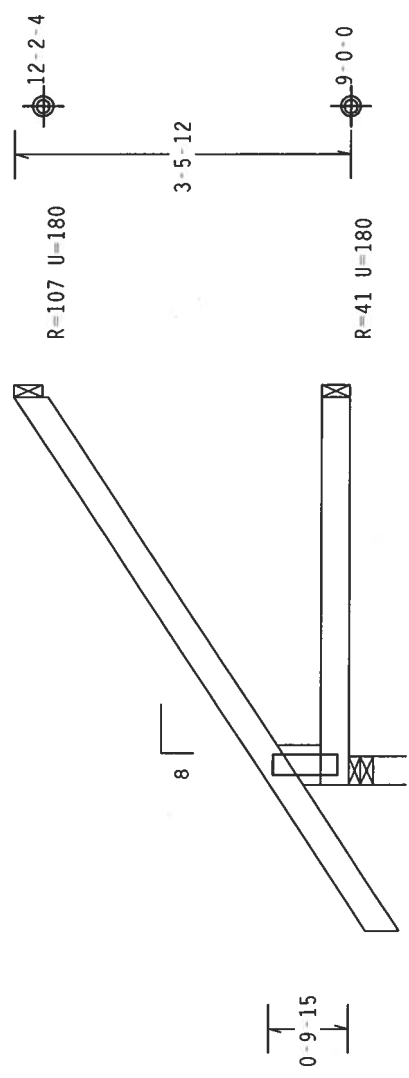
ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Professional Engineer
No. 59687
STATE OF FLORIDA
R. FISHER
Jan 09 '06

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
:Lt Stubbed Wedge 2x6 SP #2:
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.

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→
←3-11-11 Over 3 Supports →
R=290 U=180 W=3.5"

PLT TYP. Wave

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

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 BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE BUILDING TRUSSES MANUFACTURERS ASSOCIATION, 1000 N. MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHALL BE FOLLOWED BY TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE DESIGN. ACCEPTANCE OF THE DESIGN 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.

Jan 09 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"

Scale = .5" / Ft.

REF	R487 - - 58936
DATE	01/05/06
DRW	HCUSR487 06005037
HC-ENG	JB/AF
SEQN-	72611
JREF-	1STL487_Z02

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

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers.
Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

(**) Plate relocated as shown.

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.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Scale = .375"/Ft.

REF R487 - - 58937

DATE 01/05/06

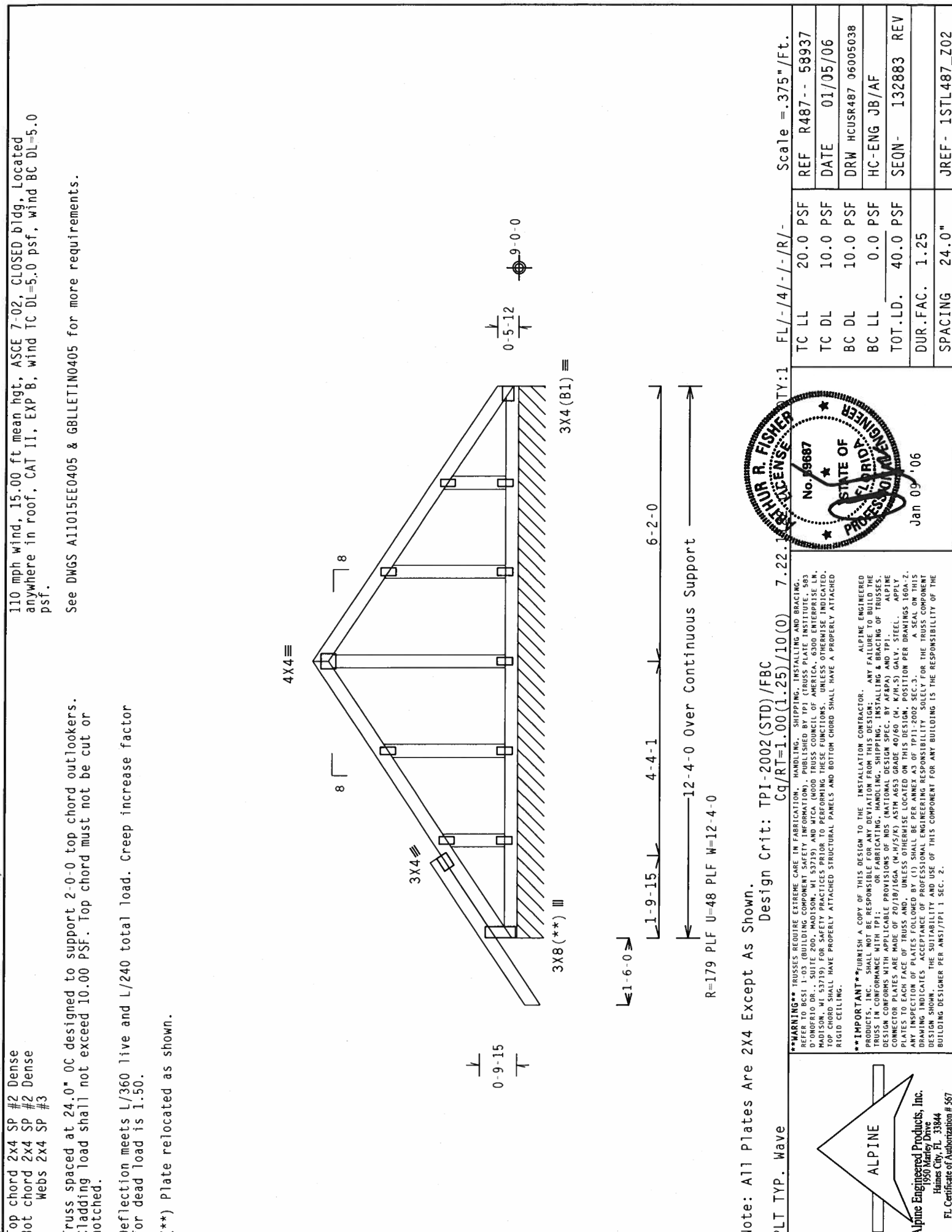
DRW HCUSR487 06005038

HC-ENG JB/AF

SEQN- 132883 REV

DUR.FAC. 1.25

SPACING 24.0"



Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Scale = .375"/Ft.

REF R487 - - 58937

DATE 01/05/06

DRW HCUSR487 06005038

HC-ENG JB/AF

SEQN- 132883 REV

DUR.FAC. 1.25

SPACING 24.0"

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

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

TY:1

0-5-12

0-9-0-0

3X4(B1) =

3X8(**) =

3X4 =

8

8

3X4 =

1-6-0

1-9-15

4-4-1

6-2-0

12-4-0 Over Continuous Support

R=179 PLF U=48 PLF W=12-4-0

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

FL Certificate of Authorization # 567

Professional Engineer

STATE OF FLORIDA

No. 79687

R. FISHER

Jan 09 '06

7.22.1

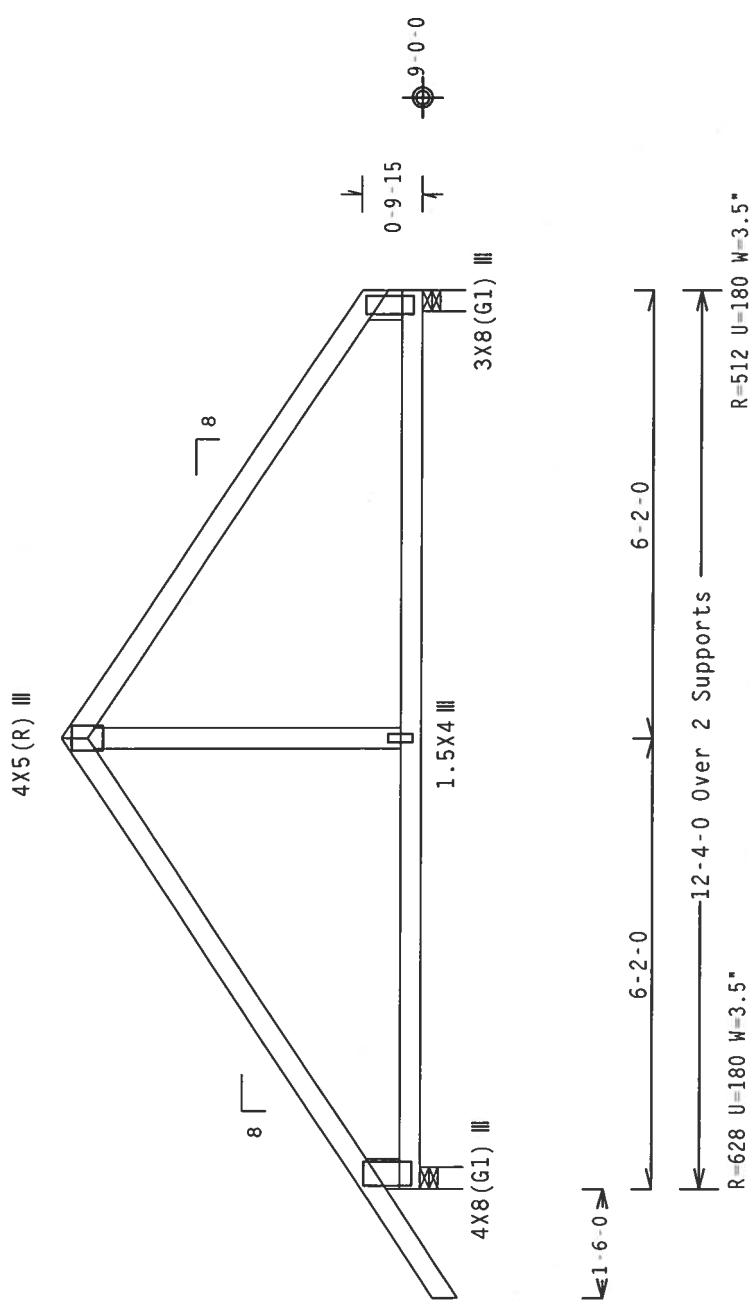
Cq/RT=1.00(1.25)/10(0)

TPI-2002(STD)/FBC

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 PANEL INSTITUTE), 10000 MARLEY DRIVE, SUITE 200, MADISON, WI 53719, AND NCTA (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) ASH A853 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY ANY INSULATION TO THE TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSULATION OF THE TRUSS SHALL BE INSTALLED IN ACCORDANCE WITH THE TPI-2002(STD)/FBC. A 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.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Stubbcd Wedge 2x6 SP #2::Rt Stubbcd Wedge 2x6 SP #2:
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.



PLT TYP. Wave

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

Scale = .375"/ft.

TC LL	20.0 PSF	REF	R487 --	58938
TC DL	10.0 PSF	DATE	01/05/06	
BC DL	10.0 PSF	DRW	HCUSR487	06005005
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	72619	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1STL487_Z02	

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. ANY DEVIATION FROM THIS DESIGN SHALL BE RESPONSIBLE FOR 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 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. 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.

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 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. 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.

SEAL OF PROFESSIONAL ENGINEER
R. FISHER
No. 59687
STATE OF FLORIDA
JUN 09 '06

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)

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

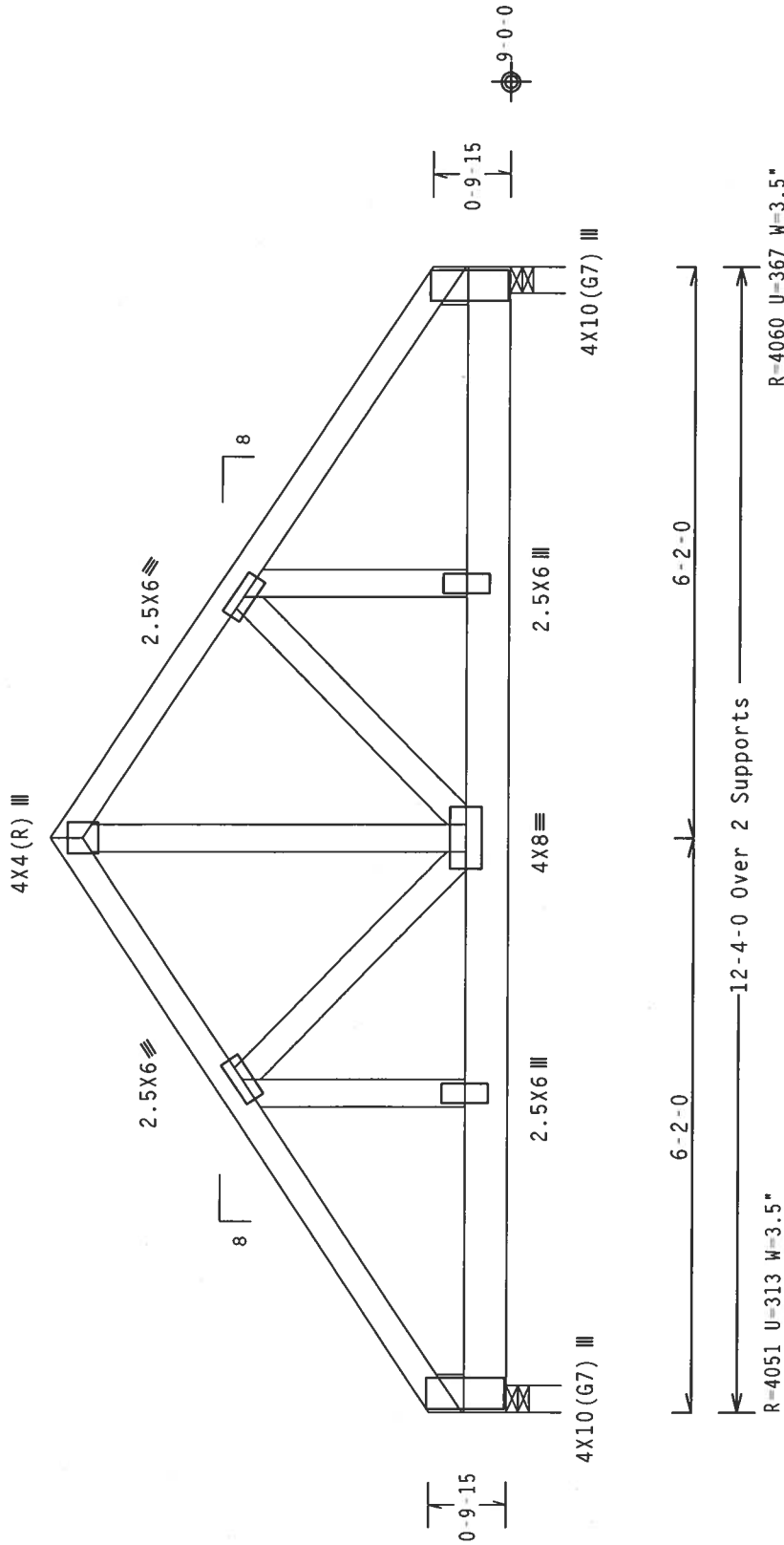
Bot Chord: 1 Row @ 3.25" 0.c.

Webs : 1 Row @ 4" O.C.

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

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

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



Design Crit: TPI-2002(STD)/FBC

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

Scale = .5"/Ft.

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

ARTHUR SHEPHERD
LICENSE

7.22.11

 $\nu_{10}(0)$ $.25)$

.00(1

 $RT=1$

Cq/

50

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3

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1

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ve

4. Wave

T TYP

79

***WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (CROSS PLATE INSTITUTE, 583 D'AMORIO DR., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

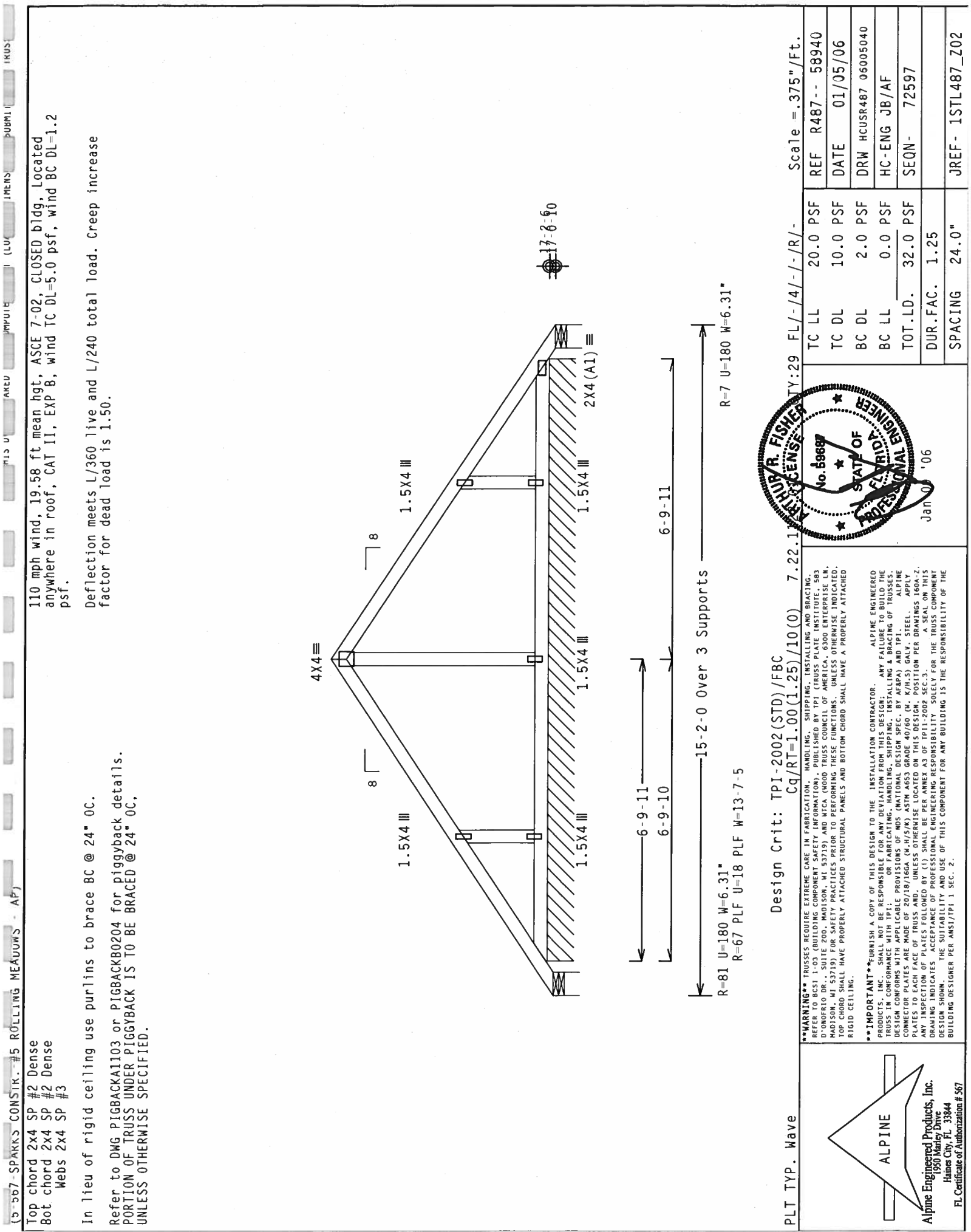
INSTALLERFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
CONNECTIONS WITH ANY CABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE
ENGINEERS SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL TRUSS CONNECTIONS, INCLUDING THE DESIGN OF THE
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 A.3 OF TPI-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGNED BY ALPINE ENGINEERS. THE USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC.2.

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # SC

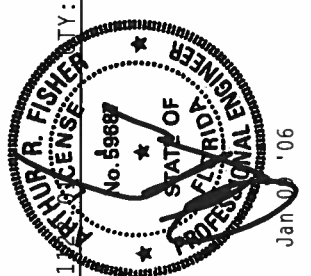


110 mph wind, 19.58 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

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

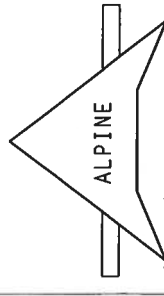
Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



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 - - 58940
TC DL	10.0 PSF	DATE 01/05/06
BC DL	2.0 PSF	DRW HCUSR487 06005040
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 72597
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1STL487_Z02

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE U.S. DEPARTMENT OF COMMERCE, NATIONAL BUREAU OF STANDARDS, 4301 RILEY AVE., SUITE 200, MADISON, WI 53719, AND NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), 11901 MARKET ST., QUINCY, MA 01906, 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 TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ALPINE

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FL Certificate of Authorization # 567

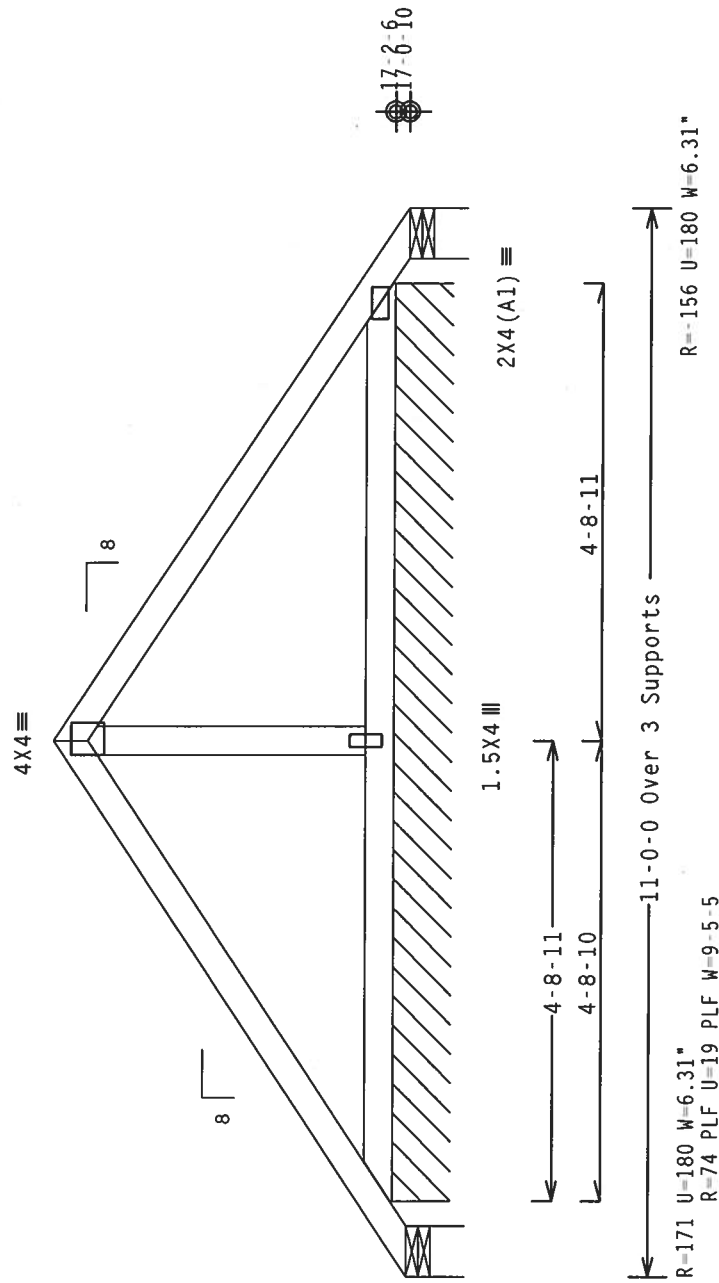
	Top	Bot	Dense
chord	2x4	2x4	#2
chord	2x4	2x4	#2
webs	2x4	2x4	#3

110 mph wind, 18.89 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.

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.



Design Crit: TPI-2002(STD)/FBC

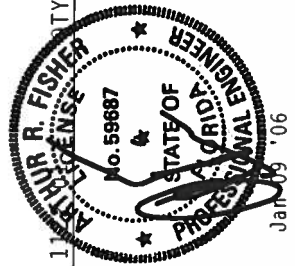
$$Cq/RT = 1.00(1.25)/10(0)$$

PROPERTY: 5 E11-141-1-181-

Scale = 5"/Ft

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI-103 (BUILDING COMPONENT SAFETY INFORMATION), (U.S.S. PLATE INSTITUTE, 583 WEST 10TH STREET, MILWAUKEE, WISCONSIN 53233), AND TRUSS PRODUCT INFORMATION, (U.S.S. PLATE INSTITUTE, 583 WEST 10TH STREET, MILWAUKEE, WISCONSIN 53233), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DESIGN OR CONSTRUCTION FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE DESIGNER'S DESIGNING, MANUFACTURING, SHIPPING, CALLING, AND TRUSS DESIGN CONFORMANCE WITH THE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC AND THE TRUSS CONNECTOR PLATES ARE MADE OF 2018/16GA. UN-TH/H/S/K ASTM A563 GRADE 40 (60 / IN. K/H.S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND (WH-TH/H/S/K) LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP11 SEC. 2.



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FL Certificate of Authorization # 567

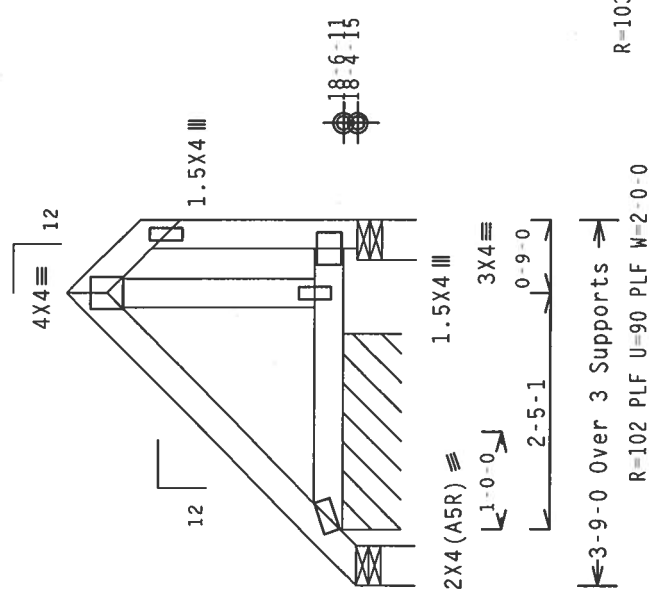
Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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.

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

110 mph wind, 19.91 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.

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



R=51 U=180 W=4.95" R=103 U=180 W=4.95"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

Scale = .5" / Ft.

ALPINE

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

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

Scale = .5" / Ft.

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-- 58943

DATE 01/05/06

DRW HCUSR487 06005043

HC-ENG JB/AF

SEON- 73220

JREF- 1STL487_Z02

THOMAS R. FISHER

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No 59687

Jan 10 '06

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.

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.

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

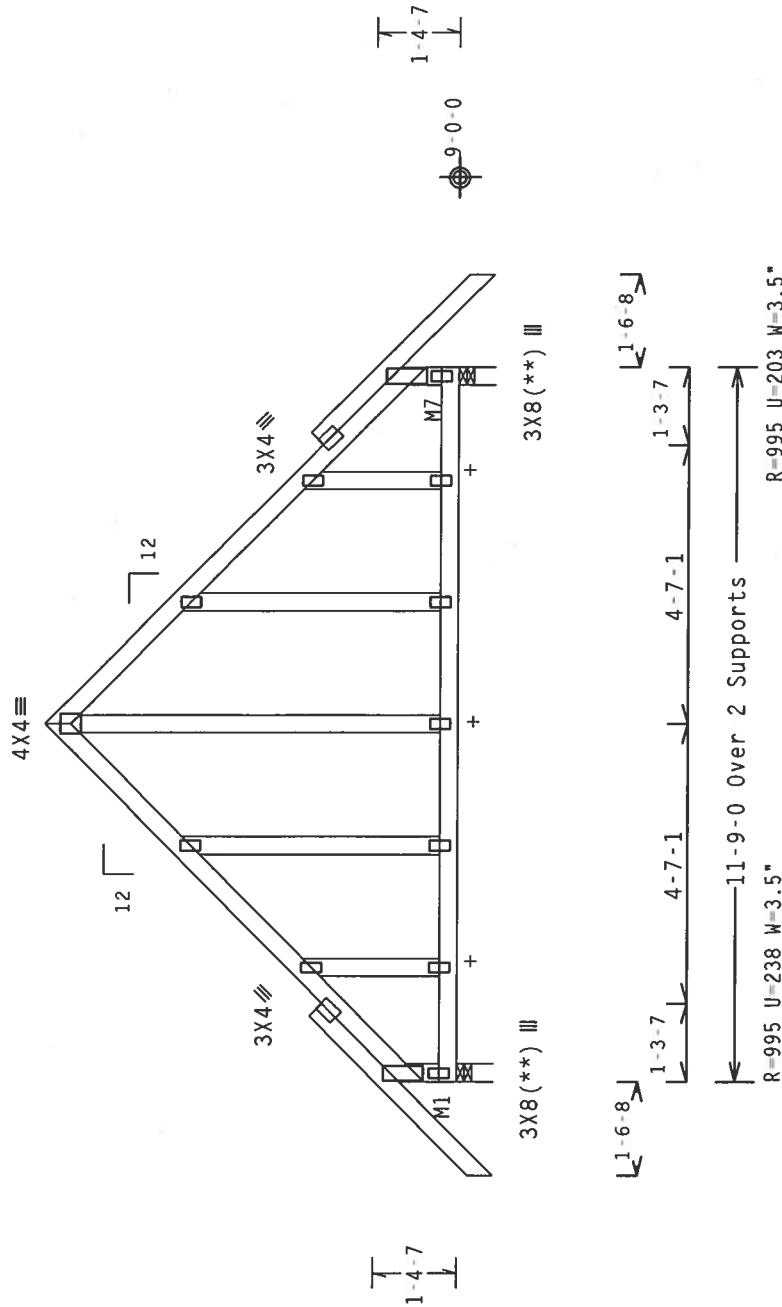
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.
Fasten rated sheathing to one face of this frame.

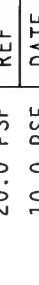
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

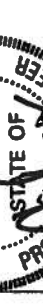


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FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1.03 (BUILDING COMPONENT SAFETY INFORMATION), DEVELOPED BY THE TRUSS PLATE INSTITUTE, 583 D'AMPTON DR., SUITE 200, MADISON, WI 53719, AND METAL GUANO TRUSS CONNECTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. IS NOT RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. (K&P) AND THE CONNECTOR PLATES ARE MADE OF 2018/166A (W-H/S) ASTM A663 GRADE 40/60 (N K/H S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE ANNOTED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TP11-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



REF	R487 --	58946	TC LL	20.0 PSF	
DATE	01/05/06		TC DL	10.0 PSF	
DRW	HCUSR487	06005045	BC DL	10.0 PSF	
	HC-ENG JB/AF		BC LL	0.0 PSF	
	SEQN-	132914	TOT.LD.	40.0 PSF	REV
	DUR.FAC.	1.25			
	SPACING	24.0"			JREF- 1STL487-202

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

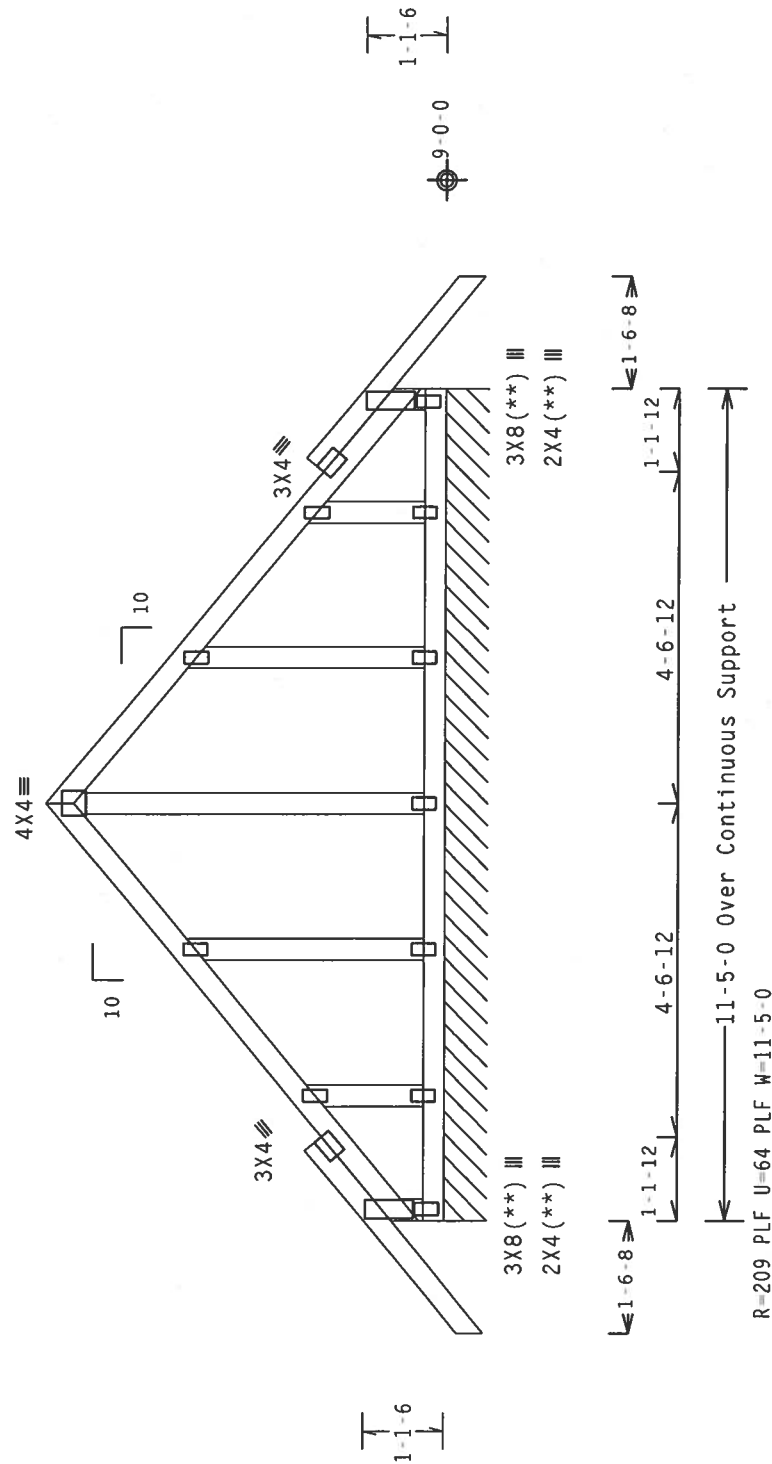
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers.
Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.
Fasten rated sheathing to one face of this frame.

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

(**) Plate relocated as shown.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

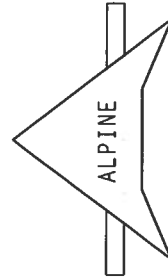
 $Cq/RT=1.00(1.25)/10(0) \quad 7.22.11$

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

Scale = .375"/Ft.

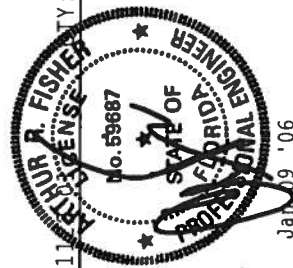
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS-1 (OS BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 N. 10TH AVE., SUITE 100, WISCONSIN, WI 53081, (414) 4000 TRUSS, FOR THE LATEST INFORMATION. TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI 53719, FOR SAFETY PRACTICES RELATION TO THE TRUSS. IF ANY TRUSS IS FOUND TO BE UNLESS OTHERWISE INDICATED, THE TRUSS MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID SETTLING.

****IMPORTANT****FURNISH A COPY OF THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ALPINE ENGINEERED TRUSS IN CONFORMANCE WITH TPI. OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING TO BUILD THE DESIGN COMPONENTS WITH APPLICABLE PROVISIONS (14-47/MSJ) ASTM A653 GRADE 40 (80 (F) K/M-5). STEEL. APPLY PLATES TO EACH FACE OF TRUSS. 2018/17/16065 (14-47/MSJ) ASTM A653 GRADE 40 (80 (F) K/M-5). STEEL. APPLY AN INSPECTION OF PLATES FOLLOWED BY A VISUAL INSPECTION OF THE DESIGN, POSITION PER DRAWINGS 100A-2. DRIVING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SUELY FOR THE TRUSS COMPONENTS BEING SHOWN. THE ANSII/TPI 1. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSII/TPI 1. SEC. 2.



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

FL Certificate of Authorization # 567



Jan. 09 '06

TC LL	20.0	PSF	REF R487-- 58947
TC DL	10.0	PSF	DATE 01/05/06
BC DL	10.0	PSF	DRW HCUR487 06005046
BC LL	0.0	PSF	HC-ENG JB/AF
TOT.LD.	40.0	PSF	SEQN- 132924 REV
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1STL487 Z02

REF- 1STL487 702

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.

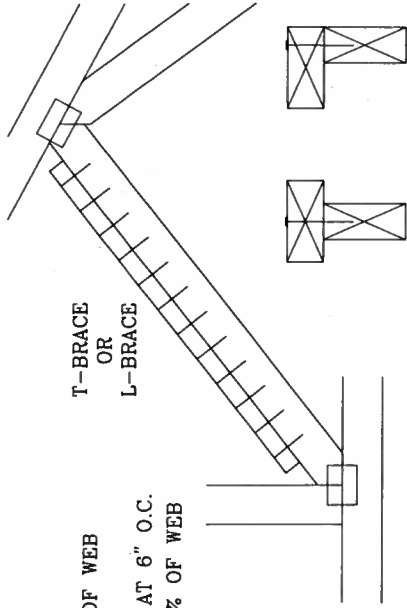
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

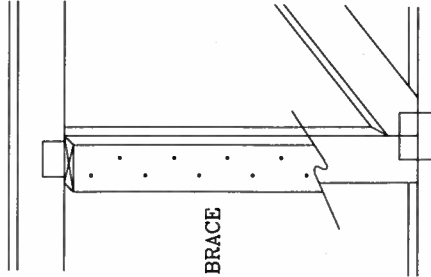


T-BRACE

L-BRACE

SCAB BRACING:

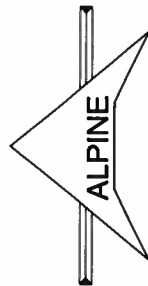
APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d OR 128"x3" GUN
NAILS AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



SCAB BRACE

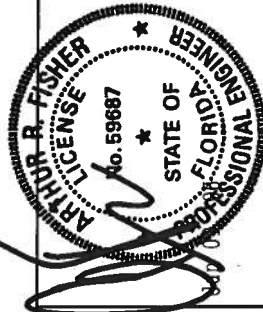
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. ALWAYS USE THE SAFETY INSTRUCTIONS AND PRECAUTIONS PUBLISHED BY THE TRUSS MANUFACTURER. ALWAYS USE THE SAFETY INSTRUCTIONS AND PRECAUTIONS PUBLISHED BY THE TRUSS MANUFACTURER. ALWAYS USE THE SAFETY INSTRUCTIONS AND PRECAUTIONS PUBLISHED BY THE TRUSS MANUFACTURER.

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 FOLLOW THE DESIGN REQUIREMENTS OR TO FOLLOW THE SAFETY INSTRUCTIONS AND PRECAUTIONS PUBLISHED BY THE TRUSS MANUFACTURER SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

THIS DRAWING REPLACES DRAWING 579,640



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	BRLCLSUB1103
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

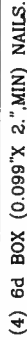
PIGgyBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

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

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

110 MPH WIND, 30' MEAN HGT, SBC

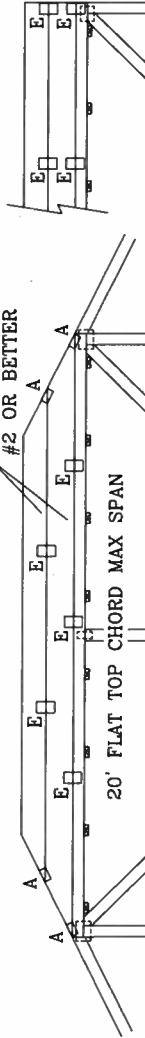
WIND TC DL=5 PSF; WIND BC DL=5 PSF
FRONT FACE (E.*) PLATES MAY BE OFFSET FROM BACK FACE
PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



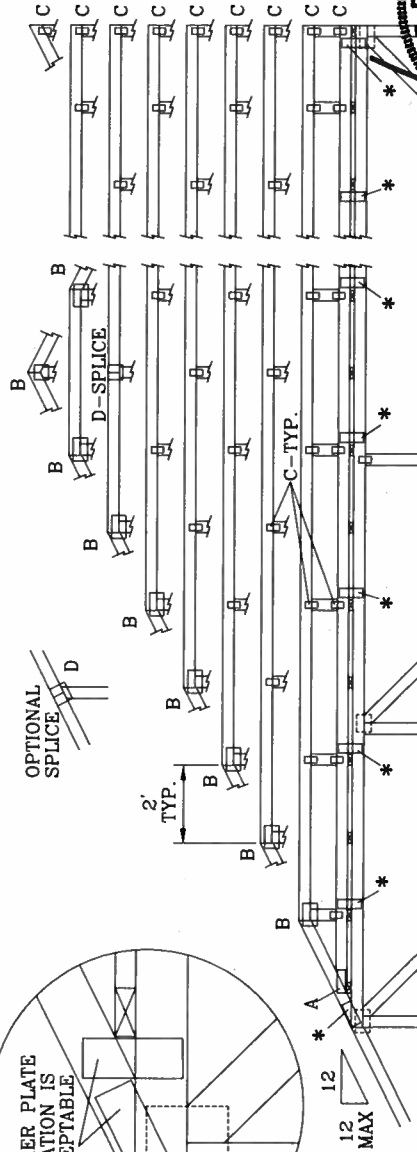
(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC;

[illegible]

-MAX SIZE OF 2X12
#2 OR BETTER



OPTIONAL:



WORKING. TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING PUBLISHED BY THE U.S. DEPARTMENT OF COMMERCE, NATIONAL PLATE INSTITUTE, 583 RIDGE RD., SUITE 200, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEING.

MANUFACTURER: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEER PRODUCTIONS INC. IS PROVIDING THIS DESIGNATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE PROHIBITIVE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND ALPINE. CONPLY PLATES ARE MADE OF 2018/16GA C/W/S/KS ASTM A653 GRADE, 40/60 C/W/K/S GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF PTI 1-2008 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE SUITABILITY AND USE OF THIS DESIGN. THE CONTRACTOR SHALL BE SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE DESIGNER, PER ANNEX1, 1 SEC 2.

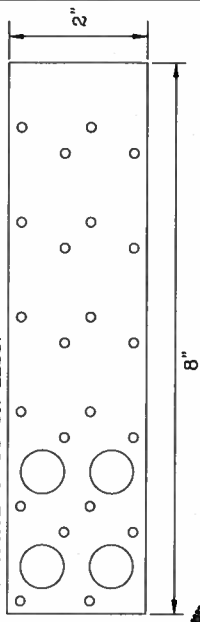
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "1" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113"X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "1" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135"X 3.5" MIN) NAILS AT 4" OC

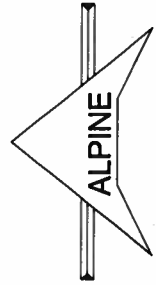
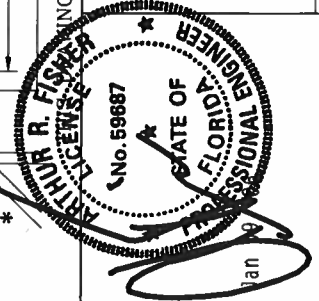
*** PIGGYBACK SPECIAL PLATE**

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



NG REPLACES DRAWINGS 634.016 634.017 & 847.045

MAX LOADING	REF	PIGGBACK
55 PSF AT	DATE	04/14/05
1.33 DUR. FAC.	DRWG	PIGBACKB0405
50 PSF AT	-ENG	DLJ/KAR
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

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 15-4S-16-03023-505

Building permit No. 000024662

Use Classification SFD/UTILITY

Fire: 61.38

Permit Holder JOSH SPARKS

Waste: 184.25

Owner of Building SPARKS CONSTRUCTION

Total: 245.63

Location: 209 SW MORNING GLORY DR(ROLLING MEADOWS, LOT 5)

Date: 11/27/2006

Henry Dicks

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)