

DATE 12/28/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025344

APPLICANT BRYAN ZECHER PHONE 386.752.8653
ADDRESS POB 815 LAKE CITY FL 32056
OWNER MICHAEL & NICOLE COVERT PHONE 305.479.9097
ADDRESS 7734 SW CR 240 LAKE CITY FL 32024
CONTRACTOR BRYAN ZECHER PHONE 386.752.8653
LOCATION OF PROPERTY 47-S TO C-240,TURN R, GO 1 1/2 MILES TO PROPERTY ON THE L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 284150.00
HEATED FLOOR AREA 5683.00 TOTAL AREA 7236.00 HEIGHT 22.00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC
LAND USE & ZONING A-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 09-5S-16-03498-102 SUBDIVISION OAKFIELD ACRES
LOT 2 BLOCK PHASE 1 UNIT TOTAL ACRES 8.00

CBC054575
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 06-1004 BLK JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: 1 FOOT ABOVE ROAD.

Check # or Cash 24932

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 1425.00 CERTIFICATION FEE \$ 36.18 SURCHARGE FEE \$ 36.18
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 1572.36
INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0612-35 Date Received 12/11/06 By LG Permit # 25344
 Application Approved by - Zoning Official BLK Date 14.12.06 Plans Examiner OKJTH Date 12-15-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments SITE PLAN ON PAGE A-6 OF PLANS
24932 NOC 867-4994

Applicants Name Bryan Zecker Phone 752-8653Address P.O. Box 815, Lake City, FL 32056Owners Name Michael and Nicole Covert Phone _____911 Address 7734 SW CR 240, Lake City, FL 32024Contractors Name Bryan Zecker Construction, Inc. Phone 752-8653Address P.O. Box 815, Lake City, FL 32056

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Teena Ruffo / Mark DiscaswayMortgage Lenders Name & Address Bank of America 164 NW Madison St. Lake City, FL 32055Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive EnergyProperty ID Number 09-53-16-03498-102 Estimated Cost of Construction \$648,000.00Subdivision Name — OAKFIELD ACRES Lot 2 Block _____ Unit _____ Phase 1Driving Directions From Hwy 90, take Hwy 41 south and bear right onto Hwy 47. Head south to CR 240, turn right and job site is about 1 1/2 miles on left.Type of Construction Frame ^{SFR} NEW CONSTRUCTION Number of Existing Dwellings on Property 0 (has been demolished)Total Acreage 6 Lot Size 15 ac Do you need a - Culvert Permit or Culvert Waiver or Have an Existing DriveActual Distance of Structure from Property Lines - Front 197' Side 215' Side 100' Rear 300'Total Building Height 22 Number of Stories 1 Heated Floor Area 5683 Roof Pitch 7/12TOTAL 7236

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)

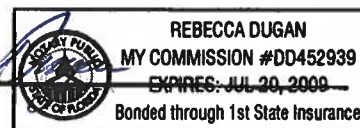
STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 11th day of December 2006.Personally known ✓ or Produced Identification _____

Contractor Signature
 Contractors License Number CBC054575
 Competency Card Number _____
 NOTARY STAMP/SEAL

Notary Signature

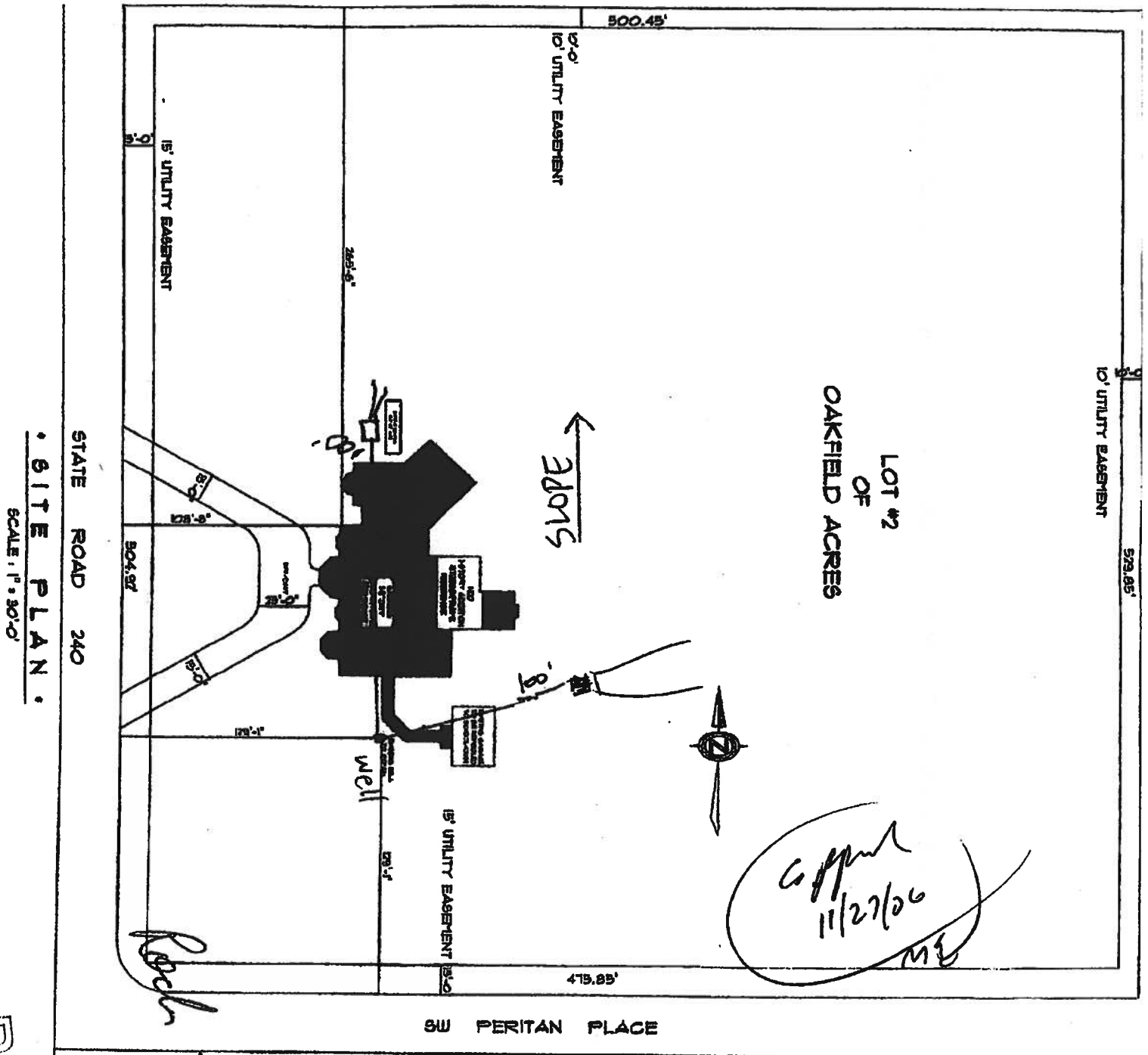


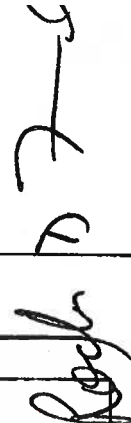
NOV-7-2006 14:17 FROM: BRYAN ZECHER CONSTRU 386-758-8920

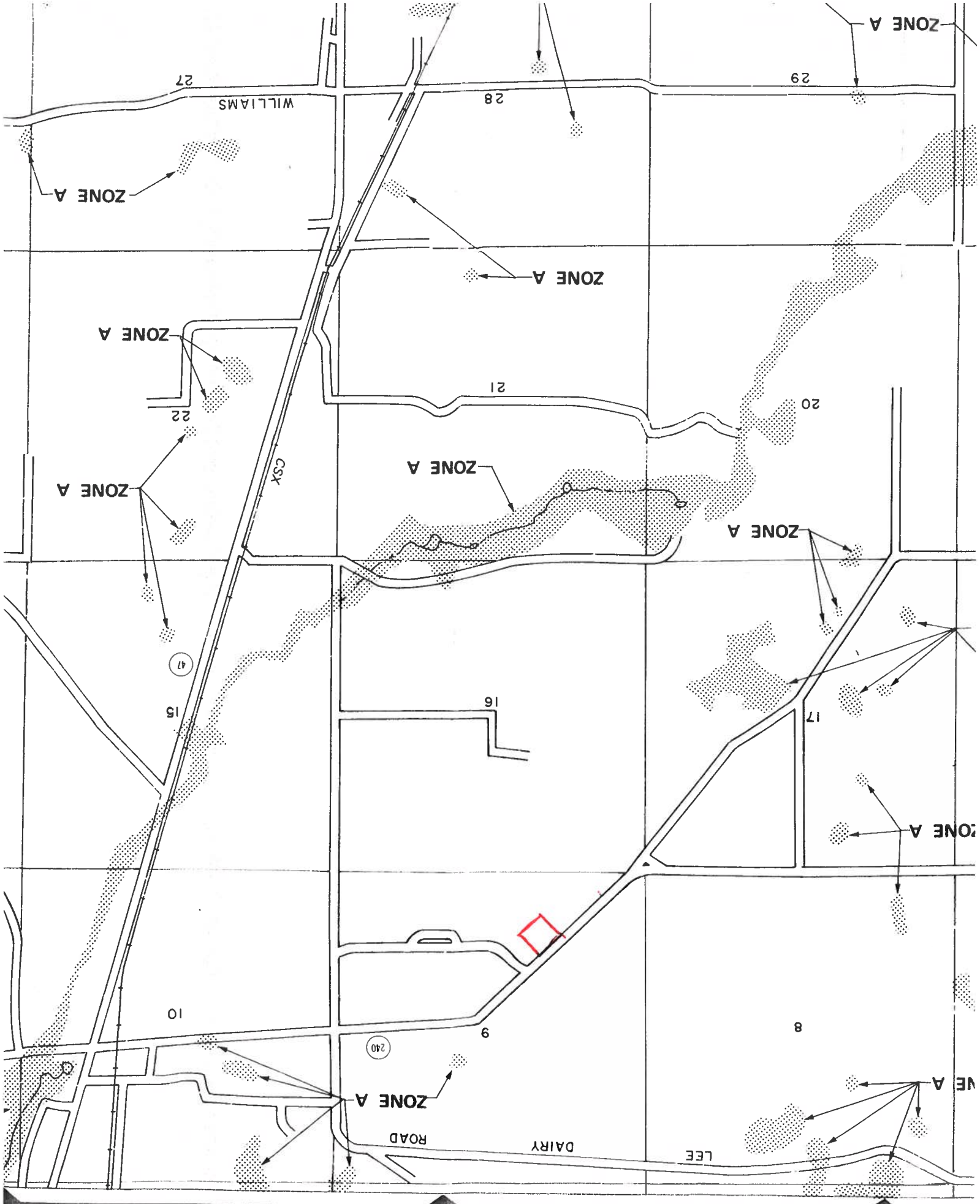
TO: 4974866

P.3

Covert Oa-1004







0612-35

25344

Notice of Treatment

12354

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**Address: 1300 AveCity: Lake CityPhone: 752-1703

Site Location: Subdivision _____

Lot # 2

Block# _____

Permit # 25344/25345Address: 774 SW CR 240Product usedActive Ingredient% Concentration☒ Premise Imidacloprid 0.1%☐ Termidor Fipronil 0.12%☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☒ Soil☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Dwelling6964464600

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

2/19/07

Date

0800

Time

F254 Gumpy

Print Technician's Name

Remarks:

According to Plans - Portion of Home constructed over existing slab.

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



Notice of Treatment

ADD TO
12354

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: 536 S. BAY AVE

City LAKELAND

Phone 752-1703

Site Location: Subdivision

Lot # _____ Block# _____

Permit # BRYAN Zeck
25344-25345

Address 7734 SW CR 240

Product used

Active Ingredient

% Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☒ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☒ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Dwelling DET
Plaza

7847

582

32 gals

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

8-3-07

Date

11:25

Time

F299

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



Residential System Sizing Calculation

Summary

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZeherBryan

Class 3 Rating
Registration No. 0
Climate: North

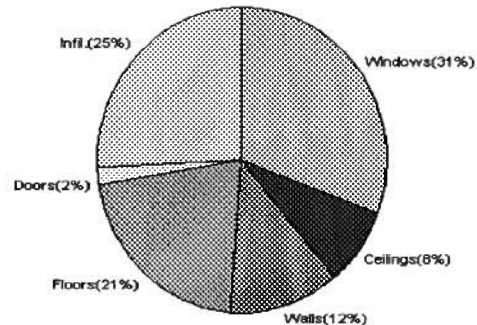
11/27/2006

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	87268 Btuh	Total cooling load calculation	78847 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.2 104000	Sensible (SHR = 0.75)	116.0 78000
Heat Pump + Auxiliary(0.0kW)	119.2 104000	Latent	224.4 26000
		Total (Electric Heat Pump)	131.9 10400

WINTER CALCULATIONS

Winter Heating Load (for 5683 sqft)

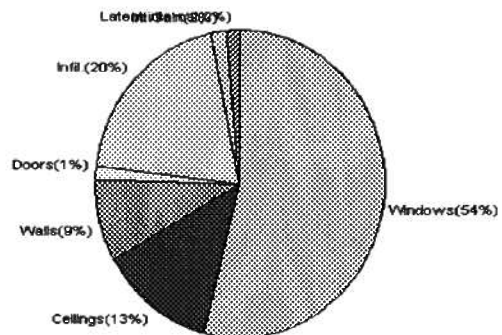
Load component		Load	
Window total	838 sqft	26975	Btuh
Wall total	3282 sqft	10778	Btuh
Door total	120 sqft	1554	Btuh
Ceiling total	6107 sqft	7196	Btuh
Floor total	424 sqft	18512	Btuh
Infiltration	549 cfm	22252	Btuh
Duct loss		0	Btuh
Subtotal		87268	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		87268	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 5683 sqft)

Load component		Load	
Window total	838 sqft	42459	Btuh
Wall total	3282 sqft	6846	Btuh
Door total	120 sqft	1176	Btuh
Ceiling total	6107 sqft	10114	Btuh
Floor total		0	Btuh
Infiltration	284 cfm	5288	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		67263	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		10384	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		11584	Btuh
TOTAL HEAT GAIN		78847	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 11-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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	54.0		32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0		32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0		32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0		32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0		32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0		32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0		32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0		32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0		32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0		32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0		32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0		32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0		32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0		32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0		32.2	129 Btuh
Window Total			838(sqft)			26975 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282		3.3	10778 Btuh
Wall Total			3282			10778 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		80		12.9	1036 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			120			1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107		1.2	7196 Btuh
Ceiling Total			6107			7196Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	424.0	ft(p)	43.7	18512 Btuh
Floor Total			424			18512 Btuh
Zone Envelope Subtotal:						65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
 , FL

Project Title:
 610042ZecherBryan

Class 3 Rating
 Registration No. 0
 Climate: North

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				87268 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	87268 Btuh 0 Btuh 87268 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
 (Frame types - metal, wood or insulated metal)
 (U - Window U-Factor or 'DEF' for default)
 (HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	54.0		32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0		32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0		32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0		32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0		32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0		32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0		32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0		32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0		32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0		32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0		32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0		32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0		32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0		32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0		32.2	129 Btuh
Window Total			838(sqft)			26975 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282		3.3	10778 Btuh
Wall Total			3282			10778 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		80		12.9	1036 Btuh
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Door Total			120			1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107		1.2	7196 Btuh
Ceiling Total			6107			7196Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	424.0	ft(p)	43.7	18512 Btuh
Floor Total			424			18512 Btuh
Zone Envelope Subtotal:						65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				87268 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 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

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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

Component Loads for Whole House

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	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242	Btuh	
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043	Btuh	
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh	
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882	Btuh	
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh	
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh	
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506	Btuh	
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh	
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687	Btuh	
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590	Btuh	
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227	Btuh	
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579	Btuh	
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758	Btuh	
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844	Btuh	
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695	Btuh	
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh	
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh	
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425	Btuh	
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh	
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203	Btuh	
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh	
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167	Btuh	
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232	Btuh	
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116	Btuh	
Window Total						838 (sqft)					42459	Btuh
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			3282.0			2.1		6846 Btuh		
Wall Total						3282 (sqft)					6846	Btuh
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Exterior				80.0			9.8		784 Btuh		
2	Insulated - Exterior				40.0			9.8		392 Btuh		
Door Total						120 (sqft)					1176	Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0			6107.0			1.7		10114 Btuh		
Ceiling Total						6107 (sqft)					10114	Btuh
Floors	Type	R-Value			Size			HTM		Load		
1	Slab On Grade	0.0			424 (ft(p))			0.0		0 Btuh		
Floor Total						424.0 (sqft)					0	Btuh
Zone Envelope Subtotal:										60595		Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30	Volume(cuft) 56830	CFM= 284.1	Load .5288 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230 +	Appliance 0	Load 1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00				0.0 Btuh
	Sensible Zone Load				67263 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	67263 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	67263 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	67263 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10384 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	11584 Btuh
	TOTAL GAIN	78847 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

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

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.

11/27/2006

Component Loads for Zone #1: Main

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	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242	Btuh
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043	Btuh
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882	Btuh
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687	Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590	Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227	Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579	Btuh
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758	Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844	Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695	Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425	Btuh
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203	Btuh
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167	Btuh
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232	Btuh
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116	Btuh
Window Total					838 (sqft)					42459 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			3282.0			2.1		6846 Btuh	
Wall Total					3282 (sqft)					6846 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				80.0			9.8		784 Btuh	
2	Insulated - Exterior				40.0			9.8		392 Btuh	
Door Total					120 (sqft)					1176 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			6107.0			1.7		10114 Btuh	
Ceiling Total					6107 (sqft)					10114 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			424 (ft(p))			0.0		0 Btuh	
Floor Total					424.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										60595 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30	Volume(cuft) 56830	CFM= 284.1	Load 5288 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230 +	Appliance 0	Load 1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00				0.0 Btuh
	Sensible Zone Load				67263 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	67263 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	67263 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	67263 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10384 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	11584 Btuh
	TOTAL GAIN	78847 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

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

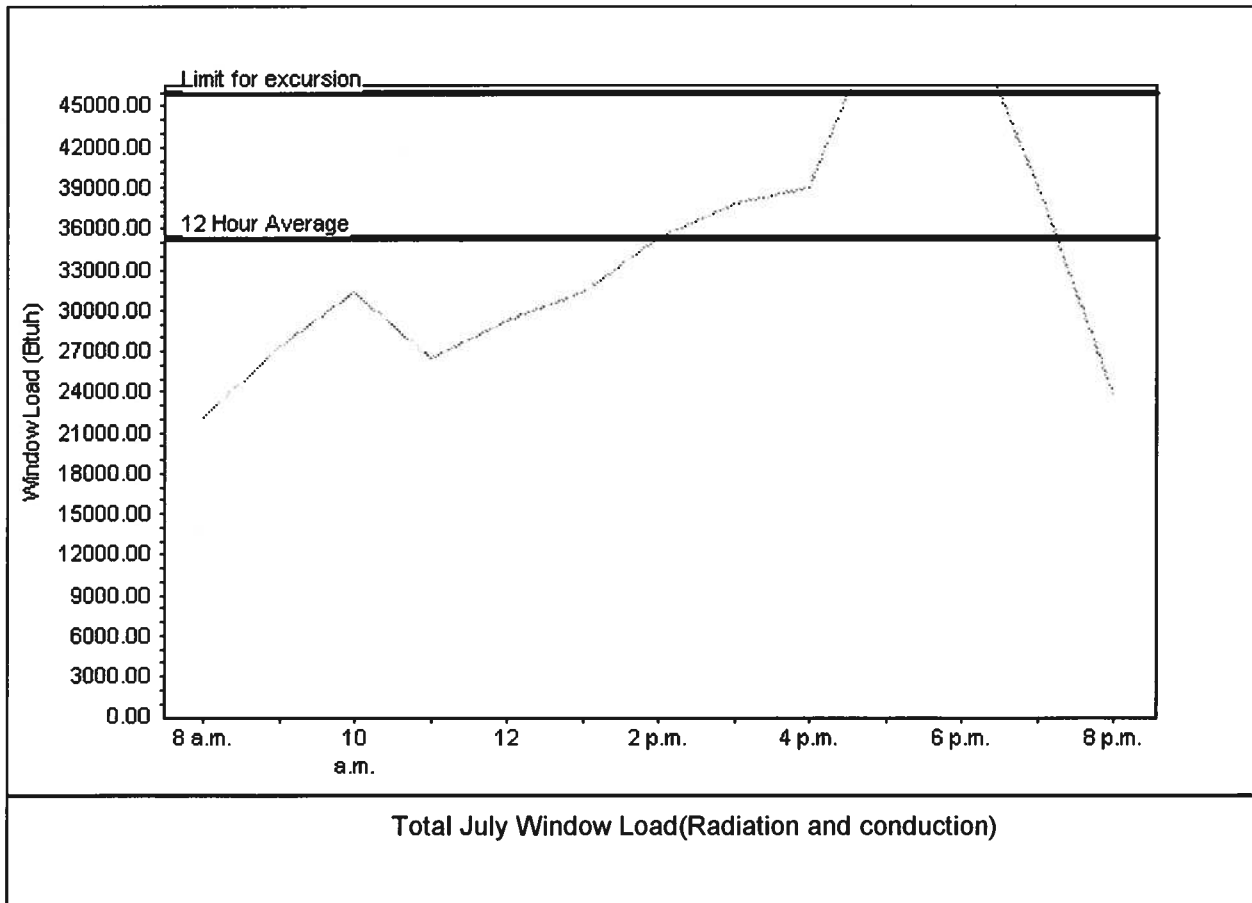
, FL

11/27/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	35331 Btu
Summer setpoint	75 F	Peak window load for July	53074 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	45930 Btu
Latitude	29 North	Window excursion (July)	7144 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY:

DATE:

EnergyGauge® FLR2PB v4.1



PREPARED BY:
Charles Hill
Robertson & Anschutz
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
9000 Southside Blvd., Ste. 700
Jacksonville, FL 32256

Inst:2006029797 Date:12/19/2006 Time:15:23
2.7 DC,P.Dewitt Cason,Columbia County B:1105 P:969

NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. _____

State of Florida
County of Columbia

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Legal description of property (include street address, if available)
7734 Southwest County Road 240
Lake City, FL 32055

See Exhibit "A" attached hereto and made a part hereof for all purposes

2. General description of improvement(s)

Improvements to custom home

3. Owner information

Name: Michael J. Covert and Nicole Covert, husband and wife
Address: 7734 Southwest County Road 240
Lake City, FL 32055

4. Contractor information

Name: Bryan Zecher Construction, Inc.
Address: Post Office Box 315
Lake City FL 32056
Phone: _____

5. Surety

Name: _____
Address: _____
Phone #: _____ Fax #: _____ Amt. of bond: _____

6. Lender

Name: Bank of America, N.A.
Address: 1201 Main Street, 11th Floor, Dallas, TX 75202-0000
Phone #: 877-719-6142

25344

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes
Name: _____
Address: _____
Phone #: _____
Fax #: _____
8. In addition to himself, Owner designates _____ of _____
_____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
Phone #: _____
Fax #: _____
9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).
10. Notwithstanding paragraph nine (9), this Notice of Commencement shall not expire until December 15, 2008.


Signature of Owner

Sworn to and subscribed before me this 11 day of Dec, 2006.

My commission expires  **Martha Bryan**
Commission # DD232534
Expires August 10, 2007
Bonded Trust Firm - Insurance, Inc. 800-386-7018


Notary Public

Inst:2006029797 Date:12/19/2006 Time:15:23
_____, P. DeWitt Cason, Columbia County B:1105 P:970

Loan No.: 6011633622

EXHIBIT "A"

Lot 2, OAKFIELD ACRES, Phase PHASE I, according to the map or plat thereof as recorded in Plat Book 6, Page 6 and 6A, of the Public Records of Columbia County, Florida

Inst:2006029797 Date:12/19/2006 Time:15:23
_____DC,P.DeWitt Cason,Columbia County B:1105 P:971

(R&A) RA0152282 - exhibitA.ra - 12/30/2004

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: 610042ZecherBryan Address: City, State: , FL Owner: Covert, Michael & Nicole Addition Climate Zone: North	Builder: Zecher Bryan Permitting Office: ColuMBia Permit Number: 25344 Jurisdiction Number: 221000
--	---

<ol style="list-style-type: none"> 1. New construction or existing New <input type="checkbox"/> 2. Single family or multi-family Single family <input type="checkbox"/> 3. Number of units, if multi-family 1 <input type="checkbox"/> 4. Number of Bedrooms 3 <input type="checkbox"/> 5. Is this a worst case? Yes <input type="checkbox"/> 6. Conditioned floor area (ft²) 5683 ft² <input type="checkbox"/> 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) <table style="width: 100%;"> <tr> <td style="width: 30%;">a. U-factor:</td> <td style="width: 30%;">Description</td> <td style="width: 40%;">Area</td> </tr> <tr> <td>(or Single or Double DEFAULT)</td> <td>7a. (Dble Default)</td> <td>838.0 ft²</td> </tr> <tr> <td>b. SHGC:</td> <td>7b. (Clear)</td> <td>838.0 ft²</td> </tr> <tr> <td>(or Clear or Tint DEFAULT)</td> <td></td> <td></td> </tr> </table> 8. Floor types <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Slab-On-Grade Edge Insulation</td> <td style="width: 70%;">R=0.0, 424.0(p) ft</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> </table> 9. Wall types <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Frame, Wood, Exterior</td> <td style="width: 70%;">R=13.0, 3282.0 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> </tr> <tr> <td>e. N/A</td> <td></td> </tr> </table> 10. Ceiling types <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Under Attic</td> <td style="width: 70%;">R=30.0, 6107.0 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> </table> 11. Ducts <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Sup: Unc. Ret: Unc. AH: Interior</td> <td style="width: 70%;">Sup. R=6.0, 280.0 ft</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> </table> 	a. U-factor:	Description	Area	(or Single or Double DEFAULT)	7a. (Dble Default)	838.0 ft²	b. SHGC:	7b. (Clear)	838.0 ft²	(or Clear or Tint DEFAULT)			a. Slab-On-Grade Edge Insulation	R=0.0, 424.0(p) ft	b. N/A		c. N/A		a. Frame, Wood, Exterior	R=13.0, 3282.0 ft²	b. N/A		c. N/A		d. N/A		e. N/A		a. Under Attic	R=30.0, 6107.0 ft²	b. N/A		c. N/A		a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 280.0 ft	b. N/A		<ol style="list-style-type: none"> 12. Cooling systems <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Central Unit</td> <td style="width: 70%;">Cap: 104.0 kBtu/hr SEER: 13.00</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> </table> 13. Heating systems <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Electric Heat Pump</td> <td style="width: 70%;">Cap: 104.0 kBtu/hr HSPF: 7.90</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> </tr> </table> 14. Hot water systems <table style="width: 100%;"> <tr> <td style="width: 30%;">a. Electric Resistance</td> <td style="width: 70%;">Cap: 40.0 gallons EF: 0.93</td> </tr> <tr> <td>b. N/A</td> <td></td> </tr> <tr> <td>c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)</td> <td></td> </tr> </table> 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) 	a. Central Unit	Cap: 104.0 kBtu/hr SEER: 13.00	b. N/A		c. N/A		a. Electric Heat Pump	Cap: 104.0 kBtu/hr HSPF: 7.90	b. N/A		c. N/A		a. Electric Resistance	Cap: 40.0 gallons EF: 0.93	b. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
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Glass/Floor Area: 0.15

Total as-built points: 56485

Total base points: 65496

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: 11-27-06

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

OWNER/AGENT: [Signature]

DATE: 12/1/06

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: , , 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	5683.0	20.04	20499.7	Double, Clear	S 4.0 6.5	54.0	35.87	0.61	1177.4	
				Double, Clear	SW 10.0 6.5	36.0	40.16	0.42	609.1	
				Double, Clear	S 10.0 5.5	30.0	35.87	0.46	490.5	
				Double, Clear	S 13.0 6.5	72.0	35.87	0.45	1165.0	
				Double, Clear	S 35.0 6.5	48.0	35.87	0.43	743.6	
				Double, Clear	E 99.0 5.5	30.0	42.06	0.36	450.3	
				Double, Clear	E 9.0 6.5	48.0	42.06	0.45	902.3	
				Double, Clear	SE 3.0 6.5	24.0	42.75	0.70	714.1	
				Double, Clear	S 1.5 6.5	72.0	35.87	0.88	2264.3	
				Double, Clear	E 1.5 6.5	72.0	42.06	0.93	2806.0	
				Double, Clear	S 1.5 6.5	30.0	35.87	0.88	943.5	
				Double, Clear	W 1.5 6.5	30.0	38.52	0.93	1071.5	
				Double, Clear	NW 1.5 6.5	20.0	25.97	0.94	486.8	
				Double, Clear	N 1.5 6.5	40.0	19.20	0.95	727.7	
				Double, Clear	NE 1.5 6.5	20.0	29.56	0.93	551.6	
				Double, Clear	NW 1.5 6.5	24.0	25.97	0.94	584.2	
				Double, Clear	N 1.5 6.5	36.0	19.20	0.95	654.9	
				Double, Clear	NE 1.5 6.5	24.0	29.56	0.93	661.9	
				Double, Clear	N 8.0 6.5	48.0	19.20	0.68	624.4	
				Double, Clear	N 1.5 2.5	7.0	19.20	0.80	107.2	
				Double, Clear	NW 1.5 2.5	7.0	25.97	0.74	134.7	
				Double, Clear	N 1.5 2.5	7.0	19.20	0.80	107.2	
				Double, Clear	NE 1.5 2.5	7.0	29.56	0.71	146.5	
				Double, Clear	S 1.5 6.5	36.0	35.87	0.88	1132.2	
				Double, Clear	NW 1.5 1.5	4.0	25.97	0.64	66.3	
				Double, Clear	N 1.5 1.5	8.0	19.20	0.71	109.2	
				Double, Clear	NE 1.5 1.5	4.0	29.56	0.59	69.2	
				As-Built Total:		838.0	19501.4			
WALL TYPES Area X BSPM = Points				Type	R-Value	Area X	SPM =	Points		
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	3282.0	1.50	4923.0		
Exterior	3282.0	1.70	5579.4							
Base Total: 3282.0 5579.4				As-Built Total:		3282.0	4923.0			
DOOR TYPES Area X BSPM = Points				Type		Area X	SPM =	Points		
Adjacent	0.0	0.00	0.0	Exterior Insulated		40.0	4.10	164.0		
Exterior	120.0	4.10	492.0	Exterior Insulated		80.0	4.10	328.0		
Base Total: 120.0 492.0				As-Built Total:		120.0	492.0			

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

ADDRESS: , , FL,	PERMIT #:
------------------	-----------

BASE				AS-BUILT			
CEILING TYPES Area X BSPM = Points				Type	R-Value	Area X SPM X SCM =	Points
Under Attic	5683.0	1.73	9831.6	Under Attic	30.0	6107.0 1.73 X 1.00	10565.1
Base Total:	5683.0		9831.6	As-Built Total:		6107.0	10565.1
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM =	Points
Slab	424.0(p)	-37.0	-15688.0	Slab-On-Grade Edge Insulation	0.0	424.0(p)	-41.20
Raised	0.0	0.00	0.0				
Base Total:			-15688.0	As-Built Total:		424.0	-17468.8
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
	5683.0	10.21	58023.4			5683.0	10.21
Summer Base Points: 78738.1				Summer As-Built Points: 76036.1			
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct X System X Credit Multiplier	= Cooling Points
78738.1		0.4266	33589.7	(sys 1: Central Unit 104000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 76036 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 22711.4 76036.1 1.00 1.138 0.263 1.000 22711.4			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , 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	5683.0	12.74	13032.3	Double, Clear	S	4.0	6.5	54.0	13.30	1.93	1389.2
				Double, Clear	SW	10.0	6.5	36.0	16.74	1.82	1099.0
				Double, Clear	S	10.0	5.5	30.0	13.30	3.47	1383.2
				Double, Clear	S	13.0	6.5	72.0	13.30	3.51	3356.1
				Double, Clear	S	35.0	6.5	48.0	13.30	3.66	2336.1
				Double, Clear	E	99.0	5.5	30.0	18.79	1.51	849.5
				Double, Clear	E	9.0	6.5	48.0	18.79	1.37	1236.2
				Double, Clear	SE	3.0	6.5	24.0	14.71	1.32	466.6
				Double, Clear	S	1.5	6.5	72.0	13.30	1.09	1047.5
				Double, Clear	E	1.5	6.5	72.0	18.79	1.03	1394.6
				Double, Clear	S	1.5	6.5	30.0	13.30	1.09	436.4
				Double, Clear	W	1.5	6.5	30.0	20.73	1.02	634.1
				Double, Clear	NW	1.5	6.5	20.0	24.30	1.00	487.1
				Double, Clear	N	1.5	6.5	40.0	24.58	1.00	985.0
				Double, Clear	NE	1.5	6.5	20.0	23.57	1.00	473.7
				Double, Clear	NW	1.5	6.5	24.0	24.30	1.00	584.5
				Double, Clear	N	1.5	6.5	36.0	24.58	1.00	886.5
				Double, Clear	NE	1.5	6.5	24.0	23.57	1.00	568.5
				Double, Clear	N	8.0	6.5	48.0	24.58	1.02	1204.3
				Double, Clear	N	1.5	2.5	7.0	24.58	1.01	174.1
				Double, Clear	NW	1.5	2.5	7.0	24.30	1.02	172.9
				Double, Clear	N	1.5	2.5	7.0	24.58	1.01	174.1
				Double, Clear	NE	1.5	2.5	7.0	23.57	1.03	169.9
				Double, Clear	S	1.5	6.5	36.0	13.30	1.09	523.7
				Double, Clear	NW	1.5	1.5	4.0	24.30	1.02	99.6
				Double, Clear	N	1.5	1.5	8.0	24.58	1.02	200.2
				Double, Clear	NE	1.5	1.5	4.0	23.57	1.04	98.4
				As-Built Total:		838.0			22431.1		
WALL TYPES											
Area X BWPM = Points				Type	R-Value	Area X WPM			= Points		
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	3282.0	3.40			11158.8	
Exterior	3282.0	3.70	12143.4								
Base Total:				3282.0			12143.4				
				As-Built Total:		3282.0			11158.8		
DOOR TYPES											
Area X BWPM = Points				Type	Area X WPM			= Points			
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0			8.40		336.0	
Exterior	120.0	8.40	1008.0	Exterior Insulated	80.0			8.40		672.0	
Base Total:				120.0			1008.0				
				As-Built Total:		120.0			1008.0		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

BASE				AS-BUILT			
CEILING TYPESArea X BWPM = Points				Type	R-Value	Area X WPM X WCM =	Points
Under Attic	5683.0	2.05	11650.1	Under Attic	30.0	6107.0 2.05 X 1.00	12519.3
Base Total:	5683.0		11650.1	As-Built Total:		6107.0	12519.3
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM =	Points
Slab	424.0(p)	8.9	3773.6	Slab-On-Grade Edge Insulation	0.0	424.0(p)	18.80
Raised	0.0	0.00	0.0				
Base Total:			3773.6	As-Built Total:		424.0	7971.2
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
	5683.0	-0.59	-3353.0			5683.0	-0.59
Winter Base Points:		38254.4		Winter As-Built Points:		51735.4	
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)			
38254.4	0.6274	24000.8		(sys 1: Electric Heat Pump 104000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 51735.4 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 25953.2 51735.4 1.00 1.162 0.432 1.000 25953.2			

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit X Multiplier = Total
3		2635.00		7905.0	40.0	0.93	3		1.00	2606.67
					As-Built Total:					7820.0

CODE COMPLIANCE STATUS											
BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
33590		24001		7905	65496	22711		25953		7820	56485

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , 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* = 85.8

The higher the score, the more efficient the home.

Covert, Michael & Nicole Addition, , , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 104.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	5683 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: 104.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 838.0 ft²		HSPF: 7.90
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 838.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 424.0(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, 3282.0 ft²	(HR-Heat recovery, Solar	
b. N/A		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, 6107.0 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, 280.0 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: 12/11/06

Address of New Home: 7734 SW CL240 City/FL Zip: LC, FL 32052



*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)

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital/Jordan		FL 675 / FL 1378-R1
2. Horizontal Slider	" "		FL 685 / FL 1384-R1
3. Casement	—		
4. Double Hung	—		
5. Fixed	C/J		FL 681 / FL 1383-R1
6. Awning	—		
7. Pass-through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11. Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4968
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	FLK / CertainTeed		FL 728-R1 / FL 250-R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

Residential System Sizing Calculation

Summary

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

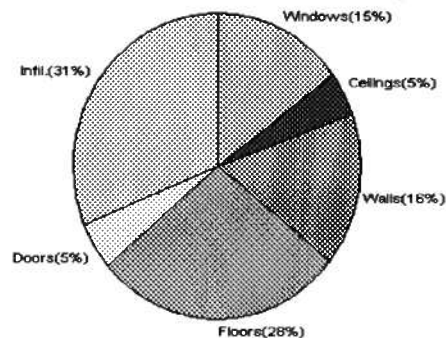
11/27/2006

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	15492 Btuh	Total cooling load calculation	12314 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	116.2 18000	Sensible (SHR = 0.75)	145.6 13500
Heat Pump + Auxiliary(0.0kW)	116.2 18000	Latent	147.8 4500
		Total (Electric Heat Pump)	146.2 18000

WINTER CALCULATIONS

Winter Heating Load (for 611 sqft)

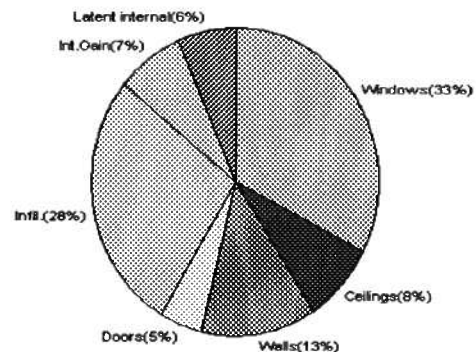
Load component	Load
Window total 72 sqft	2318 Btuh
Wall total 768 sqft	2522 Btuh
Door total 60 sqft	777 Btuh
Ceiling total 611 sqft	720 Btuh
Floor total 100 sqft	4366 Btuh
Infiltration 118 cfm	4789 Btuh
Duct loss	0 Btuh
Subtotal	15492 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	15492 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 611 sqft)

Load component	Load
Window total 72 sqft	4005 Btuh
Wall total 768 sqft	1602 Btuh
Door total 60 sqft	588 Btuh
Ceiling total 611 sqft	1012 Btuh
Floor total	0 Btuh
Infiltration 61 cfm	1143 Btuh
Internal gain	920 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	9270 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	2244 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	800 Btuh
Total latent gain	3044 Btuh
TOTAL HEAT GAIN	12314 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 11-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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	18.0		32.2	579 Btuh
2	2, Clear, Metal, 0.87	NE	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
Window Total			72(sqft)			2318 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	768		3.3	2522 Btuh
Wall Total			768			2522 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	611		1.2	720 Btuh
Ceiling Total			611			720Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	100.0	ft(p)	43.7	4366 Btuh
Floor Total			100			4366 Btuh
Zone Envelope Subtotal:						10703 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	Load
	Natural	1.29		5499	118.2	4789 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					15492 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	15492 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	15492 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

Project Title:
610042CovertSchoolRoom

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.

11/27/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
2	2, Clear, Metal, 0.87	NE	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
Window Total			72(sqft)			2318 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	768		3.3	2522 Btuh
Wall Total			768			2522 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	611		1.2	720 Btuh
Ceiling Total			611			720Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	100.0 ft(p)		43.7	4366 Btuh
Floor Total			100			4366 Btuh
Zone Envelope Subtotal:						10703 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	
	Natural	1.29		5499	118.2	4789 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					15492 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	15492 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	15492 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/07/2000

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

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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

Component Loads for Whole House

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.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844	Btuh
Window Total					72 (sqft)					4005 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			768.0		2.1		1602 Btuh		
Wall Total					768 (sqft)				1602 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Exterior				60.0		9.8		588 Btuh		
Door Total					60 (sqft)				588 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			611.0		1.7		1012 Btuh		
Ceiling Total					611 (sqft)				1012 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			100 (ft(p))		0.0		0 Btuh		
Floor Total					100.0 (sqft)				0 Btuh		
Zone Envelope Subtotal:										7207 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load		
	SensibleNatural	0.67			5499		61.4		1143 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	4			X 230 +			0		920 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										9270 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

, FL

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	9270 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	9270 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9270 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2244 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3044 Btuh
	TOTAL GAIN	12314 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

Project Title:
610042CovertSchoolRoom

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.

11/27/2006

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.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844	Btuh
Window Total					72 (sqft)					4005 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		768.0			2.1		1602 Btuh		
Wall Total			768 (sqft)					1602 Btuh			
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Exterior				60.0		9.8		588 Btuh		
Door Total			60 (sqft)					588 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0		611.0			1.7		1012 Btuh		
Ceiling Total			611 (sqft)					1012 Btuh			
Floors	Type	R-Value		Size			HTM		Load		
1	Slab On Grade	0.0		100 (ft(p))			0.0		0 Btuh		
Floor Total			100.0 (sqft)					0 Btuh			
Zone Envelope Subtotal:										7207 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural	0.67		5499			61.4		1143 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	4		X 230 +			0		920 Btuh			
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										9270 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

, FL

Project Title:
610042CovertSchoolRoom

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	9270 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	9270 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9270 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2244 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3044 Btuh
	TOTAL GAIN	12314 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

Project Title:
610042CovertSchoolRoom

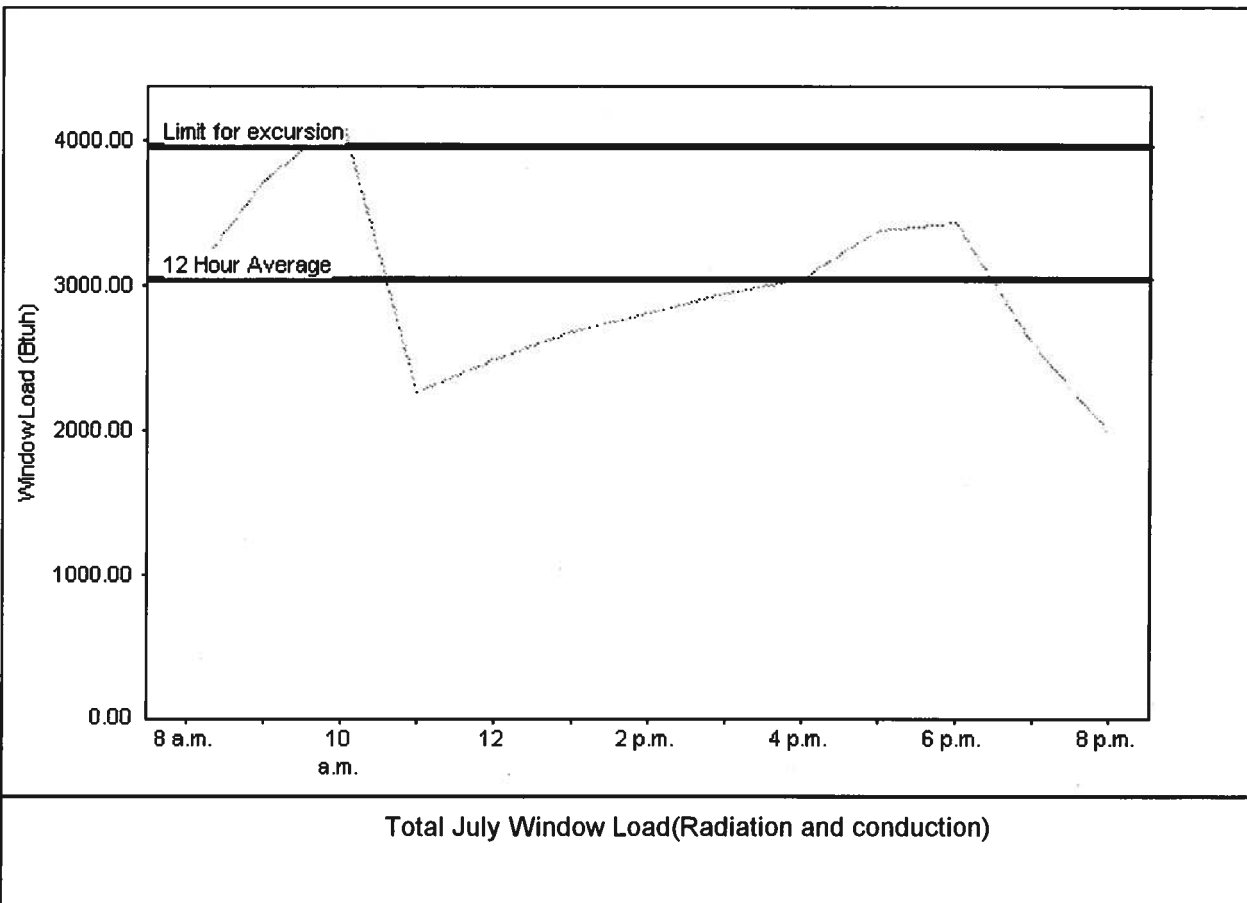
Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	3046 Btuh
Summer setpoint	75 F	Peak window load for July	4155 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	3960 Btuh
Latitude	29 North	Window excursion (July)	195 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: *[Signature]*

EnergyGauge® FLR2PB v4.1



Residential System Sizing Calculation

Summary

Covert, Michael & Nicole Addition
 , FL

Project Title:
 610042ZeherBryan

Class 3 Rating
 Registration No. 0
 Climate: North

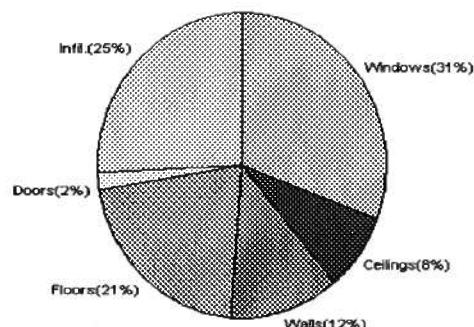
11/27/2006

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	87268 Btuh	Total cooling load calculation	78847 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.2 104000	Sensible (SHR = 0.75)	116.0 78000
Heat Pump + Auxiliary(0.0kW)	119.2 104000	Latent	224.4 26000
		Total (Electric Heat Pump)	131.9 10400

WINTER CALCULATIONS

Winter Heating Load (for 5683 sqft)

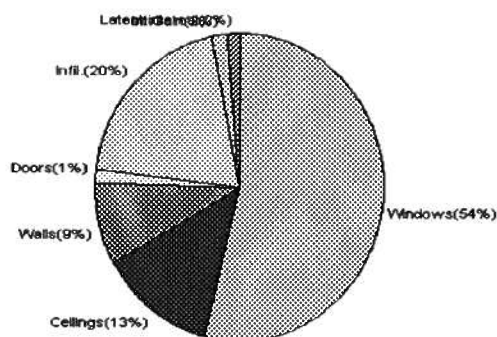
Load component	Load
Window total 838 sqft	26975 Btuh
Wall total 3282 sqft	10778 Btuh
Door total 120 sqft	1554 Btuh
Ceiling total 6107 sqft	7196 Btuh
Floor total 424 sqft	18512 Btuh
Infiltration 549 cfm	22252 Btuh
Duct loss	0 Btuh
Subtotal	87268 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	87268 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 5683 sqft)

Load component	Load
Window total 838 sqft	42459 Btuh
Wall total 3282 sqft	6846 Btuh
Door total 120 sqft	1176 Btuh
Ceiling total 6107 sqft	10114 Btuh
Floor total	0 Btuh
Infiltration 284 cfm	5288 Btuh
Internal gain	1380 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	67263 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	10384 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
Total latent gain	11584 Btuh
TOTAL HEAT GAIN	78847 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 11-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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	54.0		32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0		32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0		32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0		32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0		32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0		32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0		32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0		32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0		32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0		32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0		32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0		32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0		32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0		32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0		32.2	129 Btuh
Window Total			838(sqft)			26975 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282		3.3	10778 Btuh
Wall Total			3282			10778 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		80		12.9	1036 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			120			1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107		1.2	7196 Btuh
Ceiling Total			6107			7196Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	424.0 ft(p)		43.7	18512 Btuh
Floor Total			424			18512 Btuh
Zone Envelope Subtotal:						65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				87268 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 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

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

11/27/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	54.0		32.2	1738 Btuh
2	2, Clear, Metal, 0.87	N	36.0		32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
4	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
5	2, Clear, Metal, 0.87	NW	48.0		32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	48.0		32.2	1545 Btuh
8	2, Clear, Metal, 0.87	W	24.0		32.2	773 Btuh
9	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SW	72.0		32.2	2318 Btuh
11	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
13	2, Clear, Metal, 0.87	E	20.0		32.2	644 Btuh
14	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
15	2, Clear, Metal, 0.87	S	20.0		32.2	644 Btuh
16	2, Clear, Metal, 0.87	E	24.0		32.2	773 Btuh
17	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
18	2, Clear, Metal, 0.87	S	24.0		32.2	773 Btuh
19	2, Clear, Metal, 0.87	SE	48.0		32.2	1545 Btuh
20	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
21	2, Clear, Metal, 0.87	E	7.0		32.2	225 Btuh
22	2, Clear, Metal, 0.87	SE	7.0		32.2	225 Btuh
23	2, Clear, Metal, 0.87	S	7.0		32.2	225 Btuh
24	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
25	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh
26	2, Clear, Metal, 0.87	SE	8.0		32.2	258 Btuh
27	2, Clear, Metal, 0.87	S	4.0		32.2	129 Btuh
Window Total			838(sqft)			26975 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	3282		3.3	10778 Btuh
Wall Total			3282			10778 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		80		12.9	1036 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			120			1554Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	6107		1.2	7196 Btuh
Ceiling Total			6107			7196Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	424.0 ft(p)		43.7	18512 Btuh
Floor Total			424			18512 Btuh
Zone Envelope Subtotal:						65015 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

Infiltration	Type Natural	ACH X 0.58	Zone Volume 56830	CFM= 549.4	22252 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				87268 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	87268 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	87268 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

Covert, Michael & Nicole Addition

Project Title:
610042ZeherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

11/27/2006

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	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242	Btuh
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043	Btuh
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882	Btuh
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687	Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590	Btuh
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227	Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579	Btuh
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758	Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844	Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695	Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425	Btuh
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203	Btuh
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167	Btuh
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232	Btuh
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116	Btuh
Window Total					838 (sqft)					42459 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			3282.0			2.1		6846 Btuh	
Wall Total					3282 (sqft)					6846 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				80.0			9.8		784 Btuh	
2	Insulated - Exterior				40.0			9.8		392 Btuh	
Door Total					120 (sqft)					1176 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			6107.0			1.7		10114 Btuh	
Ceiling Total					6107 (sqft)					10114 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			424 (ft(p))			0.0		0 Btuh	
Floor Total					424.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										60595 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30	Volume(cuft) 56830	CFM= 284.1	Load 5288 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230 +	Appliance 0	Load 1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00				0.0 Btuh
	Sensible Zone Load				67263 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition
, FL

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	67263 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	67263 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	67263 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10384 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	11584 Btuh
	TOTAL GAIN	78847 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

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

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.

11/27/2006

Component Loads for Zone #1: Main

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	4ft.	6.5ft.	54.0	0.0	54.0	29	60	3242	Btuh	
2	2, Clear, 0.87, None,N,N	N	10ft.	6.5ft.	36.0	0.0	36.0	29	29	1043	Btuh	
3	2, Clear, 0.87, None,N,N	NW	10ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
4	2, Clear, 0.87, None,N,N	NW	13ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh	
5	2, Clear, 0.87, None,N,N	NW	35ft.	6.5ft.	48.0	0.0	48.0	29	60	2882	Btuh	
6	2, Clear, 0.87, None,N,N	SW	99ft.	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh	
7	2, Clear, 0.87, None,N,N	SW	9ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh	
8	2, Clear, 0.87, None,N,N	W	3ft.	6.5ft.	24.0	8.0	16.0	29	80	1506	Btuh	
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	72.0	0.0	72.0	29	60	4323	Btuh	
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	72.0	24.3	47.7	29	63	3687	Btuh	
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
13	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	20.0	0.0	20.0	29	80	1590	Btuh	
14	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	40.0	8.2	31.8	29	63	2227	Btuh	
15	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	20.0	20.0	0.0	29	34	579	Btuh	
16	2, Clear, 0.87, None,N,N	E	1.5ft.	6.5ft.	24.0	3.0	21.0	29	80	1758	Btuh	
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	36.0	12.1	23.9	29	63	1844	Btuh	
18	2, Clear, 0.87, None,N,N	S	1.5ft.	6.5ft.	24.0	24.0	0.0	29	34	695	Btuh	
19	2, Clear, 0.87, None,N,N	SE	8ft.	6.5ft.	48.0	48.0	0.0	29	63	1390	Btuh	
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh	
21	2, Clear, 0.87, None,N,N	E	1.5ft.	2.5ft.	7.0	2.6	4.4	29	80	425	Btuh	
22	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.5ft.	7.0	7.0	0.0	29	63	203	Btuh	
23	2, Clear, 0.87, None,N,N	S	1.5ft.	2.5ft.	7.0	7.0	0.0	29	34	203	Btuh	
24	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh	
25	2, Clear, 0.87, None,N,N	E	1.5ft.	1.5ft.	4.0	3.0	1.0	29	80	167	Btuh	
26	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	8.0	8.0	0.0	29	63	232	Btuh	
27	2, Clear, 0.87, None,N,N	S	1.5ft.	1.5ft.	4.0	4.0	0.0	29	34	116	Btuh	
Window Total						838 (sqft)					42459	Btuh
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			3282.0			2.1		6846 Btuh		
Wall Total						3282 (sqft)					6846	Btuh
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Exterior				80.0			9.8		784 Btuh		
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Door Total						120 (sqft)					1176	Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0			6107.0			1.7		10114 Btuh		
Ceiling Total						6107 (sqft)					10114	Btuh
Floors	Type	R-Value			Size			HTM		Load		
1	Slab On Grade	0.0			424 (ft(p))			0.0		0 Btuh		
Floor Total						424.0 (sqft)					0	Btuh
Zone Envelope Subtotal:										60595 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

Infiltration	Type SensibleNatural	ACH 0.30	Volume(cuft) 56830	CFM= 284.1	Load 5288 Btuh
Internal gain	Occupants 6	Btuh/occupant X 230 +	Appliance 0	Load 1380 Btuh	
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
	Sensible Zone Load				67263 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

, FL

11/27/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	67263 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	67263 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	67263 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10384 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	11584 Btuh
	TOTAL GAIN	78847 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

Covert, Michael & Nicole Addition

Project Title:
610042ZecherBryan

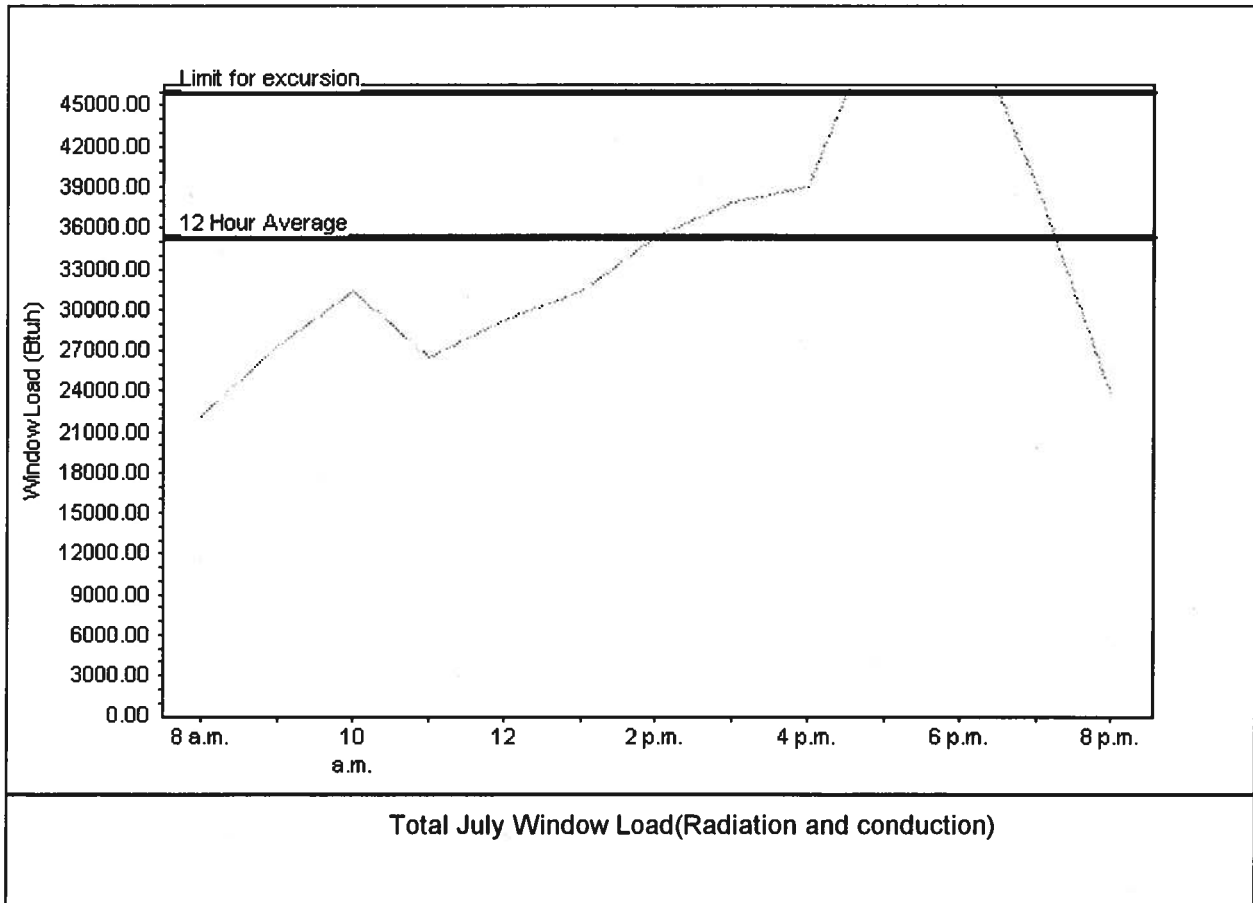
Class 3 Rating
Registration No. 0
Climate: North

11/27/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	35331 Btu
Summer setpoint	75 F	Peak window load for July	53074 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	45930 Btu
Latitude	29 North	Window excursion (July)	7144 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: 11-27-06

EnergyGauge® FLR2PB v4.1



25344

PREPARED BY:
Charles Hill
Robertson & Anschutz
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
9000 Southside Blvd., Ste. 700
Jacksonville, FL 32256

Inst:2006029797 Date:12/19/2006 Time:15:23

12 DC, P. DeWitt Cason, Columbia County B:1105 P:969

NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. _____

State of Florida
County of Columbia

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Legal description of property (include street address, if available)
7734 Southwest County Road 240
Lake City, FL 32055

See Exhibit "A" attached hereto and made a part hereof for all purposes

2. General description of improvement(s)

Improvements to custom home

3. Owner information
Name: Michael J. Covert and Nicole Covert, husband and wife
Address: 7734 Southwest County Road 240
Lake City, FL 32055

4. Contractor information
Name: Bryan Zecher Construction, Inc.
Address: Post Office Box 315
Lake City FL 32056
Phone: _____

5. Surety
Name: _____
Address: _____
Phone #: _____ Fax #: _____ Amt. of bond: _____

6. Lender
Name: Bank of America, N.A.
Address: 1201 Main Street, 11th Floor, Dallas, TX 75202-0000
Phone #: 877-719-6142

COLUMBIA COUNTY OFFICE OF 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 09-5S-16-03498-102

Building permit No. 000025344

Use Classification SFD/UTILITY

Fire: 0.00

Permit Holder BRYAN ZECHER

Waste:

Owner of Building MICHAEL & NICOLE COVERT

Total: 0.00

Location: 7734 SW CR 240, LAKE CITY, FL

Date: 10/10/2008

Wayne S. Luke

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 2 Document ID: 1T2E487-Z0117140630

Truss Fabricator: Anderson Truss Company
Job Identification: 6-248---- ~~Greg Mulvihill~~ --, **Bryan Zecker/
Truss Count: 150
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.24, 7.31.
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Bryan Zecker
Covert Add'l



Notes:

Seal Date: 11/17/2006

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

-Truss Design Engineer-
Arthur R. Fisher

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

Details: BRCLBSUB-CNBRGBLK-PIGBACKA-PIGBACKB-

#	Ref	Description	Drawing#	Date
1	52594--A1	06321035	11/17/06	
2	52595--A2	06321144	11/17/06	
3	52596--A3	06321026	11/17/06	
4	52597--A4	06321025	11/17/06	
5	52598--A5	06321024	11/17/06	
6	52599--A6	06321145	11/17/06	
7	52600--A7	06321064	11/17/06	
8	52601--A8	06321036	11/17/06	
9	52602--A9	06321037	11/17/06	
10	52603--B1	06321001	11/17/06	
11	52604--B2	06321073	11/17/06	
12	52605--B3	06321141	11/17/06	
13	52606--B4	06321019	11/17/06	
14	52607--B5	06321020	11/17/06	
15	52608--B6	06321021	11/17/06	
16	52609--B7	06321022	11/17/06	
17	52610--B8	06321031	11/17/06	
18	52611--B9	06321033	11/17/06	
19	52612--B10	06321034	11/17/06	
20	52613--B11	06321030	11/17/06	
21	52614--BB1G	06321001	11/17/06	
22	52615--C1	06321002	11/17/06	
23	52616--C2	06321136	11/17/06	
24	52617--C3	06321007	11/17/06	
25	52618--C4	06321137	11/17/06	
26	52619--C5	06321138	11/17/06	
27	52620--C6	06321072	11/17/06	
28	52621--C7	06321011	11/17/06	
29	52622--C8	06321004	11/17/06	
30	52623--C9	06321146	11/17/06	
31	52624--C10	06321147	11/17/06	
32	52625--C11	06321148	11/17/06	
33	52626--C12	06321003	11/17/06	
34	52627--C13	06321069	11/17/06	
35	52628--C14	06321008	11/17/06	
36	52629--C15	06321009	11/17/06	
37	52630--C16	06321010	11/17/06	
38	52631--D1	06321122	11/17/06	

#	Ref	Description	Drawing#	Date
39	52632--D2	06321123	11/17/06	
40	52633--D3	06321124	11/17/06	
41	52634--D4	06321125	11/17/06	
42	52635--D5G	06321126	11/17/06	
43	52636--EJ8	06321062	11/17/06	
44	52637--EJ5	06321041	11/17/06	
45	52638--J50	06321056	11/17/06	
46	52639--J70	06321057	11/17/06	
47	52640--EJ0	06321053	11/17/06	
48	52641--MGR	06321091	11/17/06	
49	52642--HJ0	06321052	11/17/06	
50	52643--AA1G	06321105	11/17/06	
51	52644--HJ7	06321039	11/17/06	
52	52645--EJ7	06321045	11/17/06	
53	52646--HJ5	06321040	11/17/06	
54	52647--J5	06321012	11/17/06	
55	52648--J3	06321023	11/17/06	
56	52649--J1	06321119	11/17/06	
57	52650--HJ4	06321116	11/17/06	
58	52651--EJ4	06321120	11/17/06	
59	52652--HJBB	06321087	11/17/06	
60	52653--EJBB	06321088	11/17/06	
61	52654--J1BB	06321089	11/17/06	
62	52655--J2BB	06321090	11/17/06	
63	52656--CC2	06321006	11/17/06	
64	52657--CC1	06321005	11/17/06	
65	52658--MGC	06321135	11/17/06	
66	52659--MGR	06321074	11/17/06	
67	52660--MGS	06321066	11/17/06	
68	52661--EJ4K	06321121	11/17/06	
69	52662--MGK	06321051	11/17/06	
70	52663--HJKK	06321071	11/17/06	
71	52664--EJKK	06321085	11/17/06	
72	52665--J1KK	06321079	11/17/06	
73	52666--J2KK	06321083	11/17/06	
74	52667--J3KK	06321082	11/17/06	
75	52668--J4KK	06321084	11/17/06	
76	52669--HJW1	06321094	11/17/06	

#	Ref	Description	Drawing#	Date
77	52670--HJW2	06321095	11/17/06	
78	52671--EJW	06321102	11/17/06	
79	52672--J1W	06321097	11/17/06	
80	52673--J2W	06321098	11/17/06	
81	52674--J3W	06321099	11/17/06	
82	52675--J4W	06321100	11/17/06	
83	52676--J5W	06321101	11/17/06	
84	52677--FGZ	06321042	11/17/06	
85	52678--HJZ1	06321106	11/17/06	
86	52679--HJZ2	06321108	11/17/06	
87	52680--EJZ	06321112	11/17/06	
88	52681--J1Z	06321114	11/17/06	
89	52682--J2Z	06321110	11/17/06	
90	52683--J3Z	06321111	11/17/06	
91	52684--J4Z	06321109	11/17/06	
92	52685--HJC1	06321015	11/17/06	
93	52686--J3C	06321018	11/17/06	
94	52687--J5C	06321016	11/17/06	
95	52688--EJC1	06321013	11/17/06	
96	52689--EJC2	06321017	11/17/06	
97	52690--EJC3	06321142	11/17/06	
98	52691--EJC4	06321143	11/17/06	
99	52692--K1	06321113	11/17/06	
100	52693--K2	06321127	11/17/06	
101	52694--K3	06321130	11/17/06	
102	52695--K4	06321128	11/17/06	
103	52696--KK1	06321065	11/17/06	
104	52697--KK2G	06321070	11/17/06	
105	52698--O1	06321140	11/17/06	
106	52699--O3	06321117	11/17/06	
107	52700--O4	06321133	11/17/06	
108	52701--O2	06321104	11/17/06	
109	52702--O5	06321134	11/17/06	
110	52703--AP1	06321050	11/17/06	
111	52704--AP2	06321038	11/17/06	
112	52705--AP3	06321032	11/17/06	
113	52706--AP4	06321049	11/17/06	
114	52707--AP5	06321048	11/17/06	



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 2 of 2 Document ID:1T2E487-Z0117140630

Truss Fabricator: Anderson Truss Company
Job Identification: 6-248---- Greg Mulvihill -- , **
Truss Count: 150
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.24, 7.31.
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. As shown on attached drawings; the drawing number is preceded by: HCUSR487

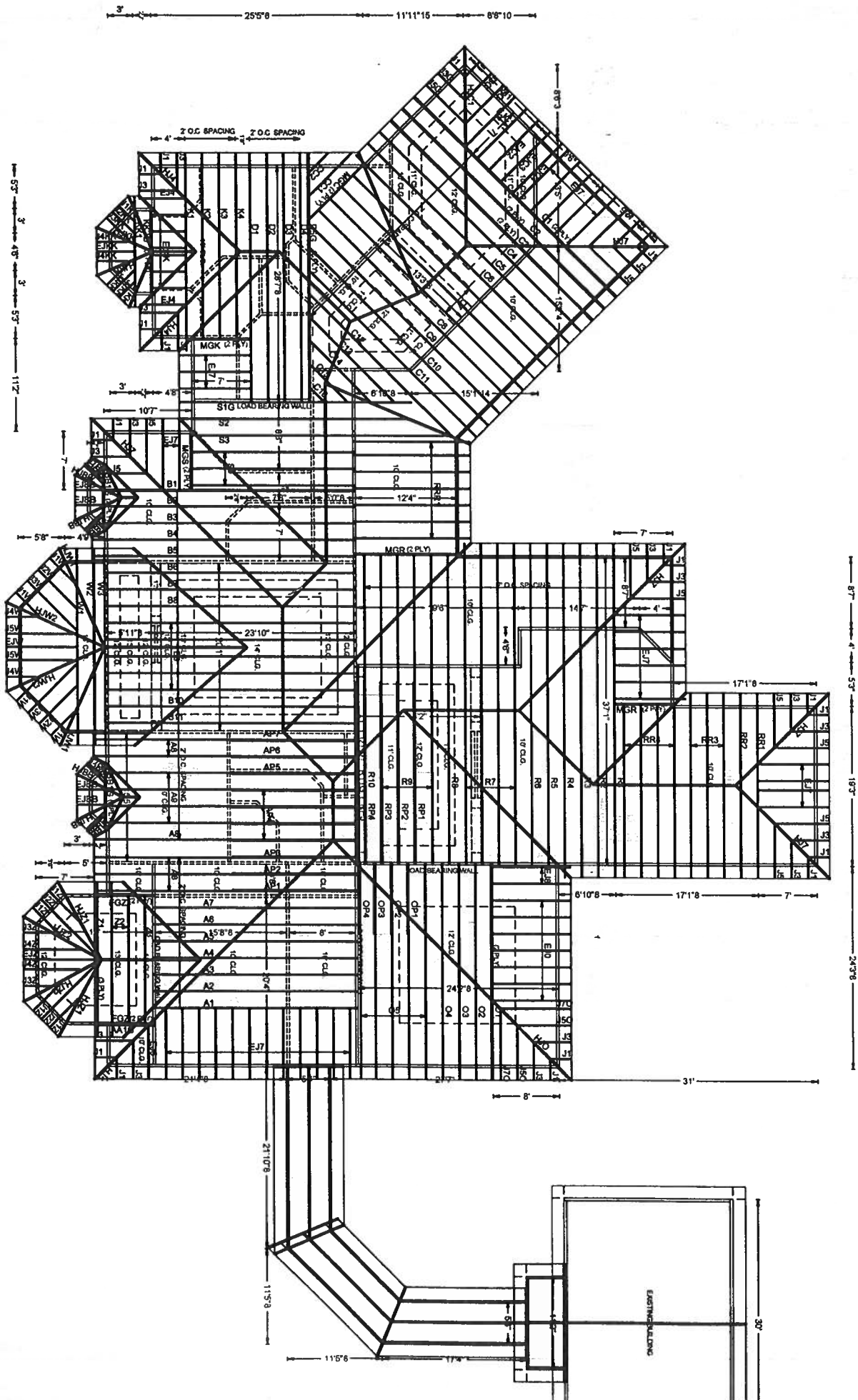
Details: BRCLBSUB-CNBRGBLK-PIGBACKA-PIGBACKB-

Seal Date: 11/17/2006

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

#	Ref	Description	Drawing#	Date
115	52708--AP6		06321047	11/17/06
116	52709--AP7		06321046	11/17/06
117	52710--OP1		06321055	11/17/06
118	52711--OP2		06321058	11/17/06
119	52712--OP3		06321059	11/17/06
120	52713--OP4		06321060	11/17/06
121	52714--RP1		06321080	11/17/06
122	52715--RP2		06321078	11/17/06
123	52716--RP3		06321081	11/17/06
124	52717--RP5		06321115	11/17/06
125	52718--RR1		06321054	11/17/06
126	52719--RR2		06321061	11/17/06
127	52720--RR3		06321063	11/17/06
128	52721--RR4		06321068	11/17/06
129	52722--RRR1		06321014	11/17/06
130	52723--R1		06321086	11/17/06
131	52724--R2		06321096	11/17/06
132	52725--R3		06321107	11/17/06
133	52726--R4		06321118	11/17/06
134	52727--R5		06321139	11/17/06
135	52728--R6		06321002	11/17/06
136	52729--R7		06321076	11/17/06
137	52730--R8		06321067	11/17/06
138	52731--R9		06321077	11/17/06
139	52732--R10		06321075	11/17/06
140	52733--R11G		06321129	11/17/06
141	52734--S1G		06321131	11/17/06
142	52735--S2		06321132	11/17/06
143	52736--S3		06321028	11/17/06
144	52737--S4		06321029	11/17/06
145	52738--W1		06321092	11/17/06
146	52739--W2		06321103	11/17/06
147	52740--W3		06321093	11/17/06
148	52741--Z1		06321027	11/17/06
149	52742--Z2		06321044	11/17/06
150	52743--Z3		06321043	11/17/06





#6-248 GREG MULVHILL - COVERT ADDITION

10/27/06

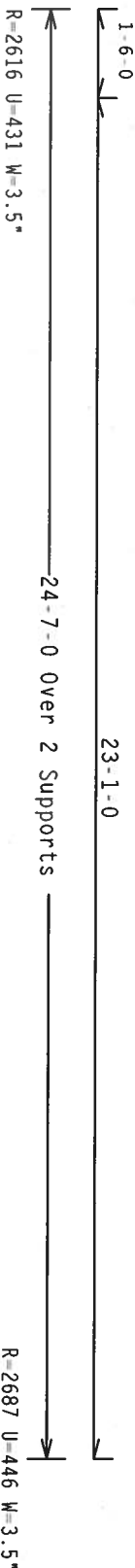
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Conc.	Load at	1.56	3.56	5.56	7.56	9.56
11.56	13.56	15.56	17.56	19.56	21.56	23.56
82 LB	Conc.	Load at	1.56	3.56	5.56	7.56
11.56	13.56	15.56	17.56	19.56	21.56	23.56

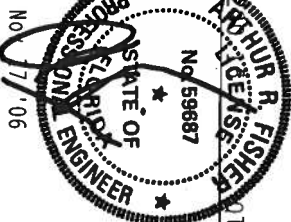
Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



Scale = .3125" / Ft.

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

Alpine Engineered Products, Inc.



TC LL	20.0 PSF	REF	R487 - - 52594
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321035
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137243
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2E487_Z01

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

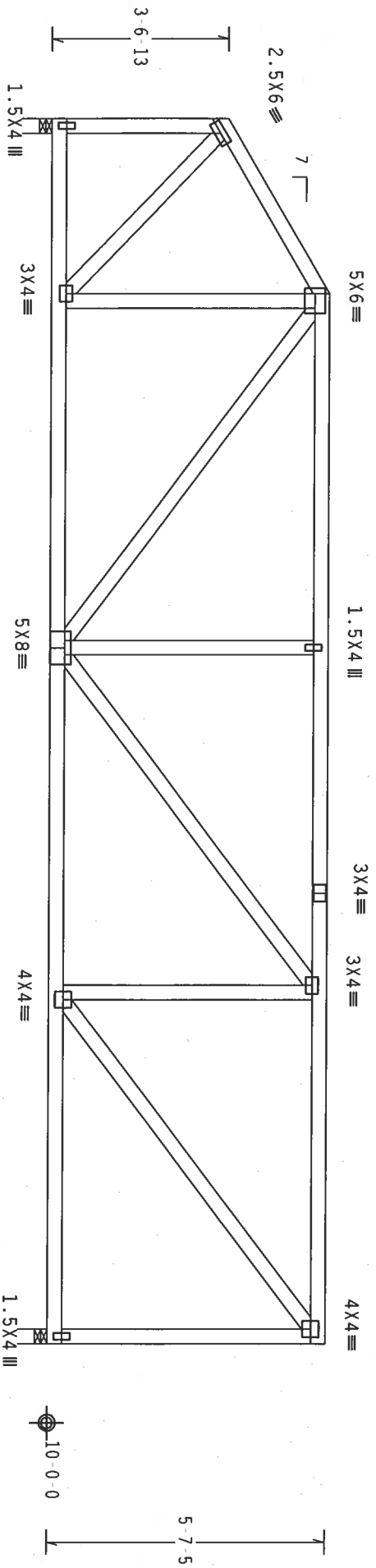
Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

End verticals not exposed to wind pressure.

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



3'-6-0" 24'-7-0" Over 2 Supports 21'-1-0" 5'-7-5" R=1022 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.13 R. FISHER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 312, TAMPA, FL 33604. (813) 881-1111. **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 NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (K/H/SS/AS) ASTM A653 GRADE 40/60 (K/H/SS) 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 AMEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER AMX/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52595
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321144
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137251
DUR.FAC.	1.25		
SPACING	24.0"		

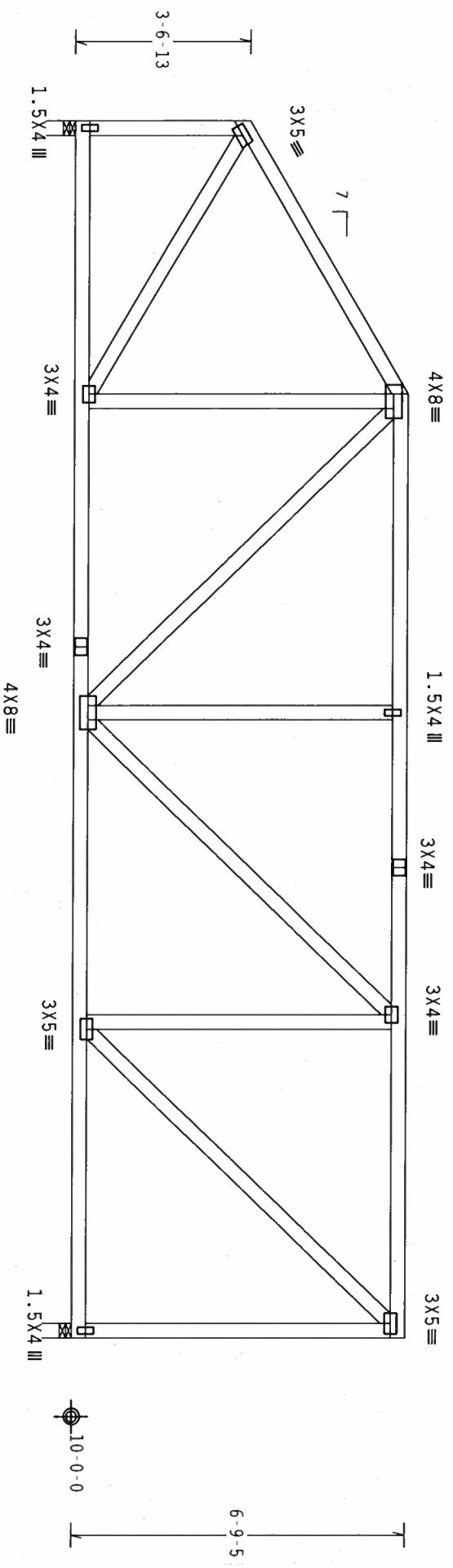
ALPINE
Alpine Engineered Products, Inc.
1950 Manley Drive
Haines City, FL 33844
Certificate of Registration # 12345

Scale = .3125"/ft.
JREF- 1TPE487_201

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

Wind reactions based on MFERS pressures.
In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.17 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=5.0 psf.
End verticals not exposed to wind pressure.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



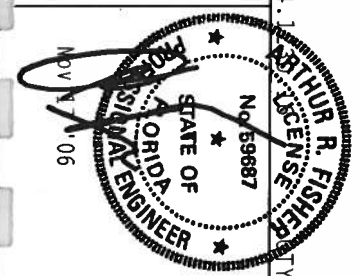
R=1022 U=180 W=3.5"
R=1022 U=180 W=3.5"

PLT TYP. Wave
Design Crit: TP1-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1
Scale = .3125"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCST (BOOK OF CODES) FOR ALL REQUIREMENTS. INSTRUCTIONS FOR INSPECTION, 200
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH APPROVED TRUSS CONTRACTORS, UNLESS
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
A PROPERLY ATTACHED RIGID CEILING.

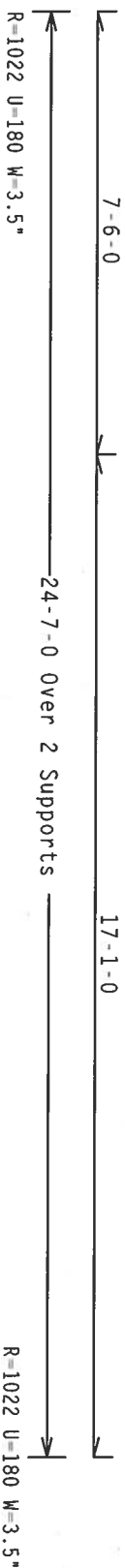
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/A) ASTM A653 GRADE 40/60 (W, K/H, S5) 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 ANNEK AS OF TP11-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGNED AND DRAWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TP1 SEC. 2.

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1950 Marley Drive
Haines City, FL 33844
Certificate # 06



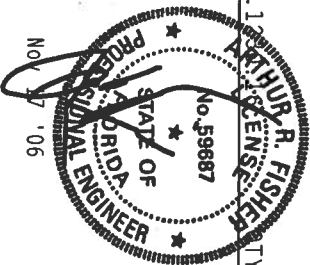
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TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCUSR487	06321026
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	137258	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	1T2E487	201

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Scale = .3125" / Ft.

DESIGN SHOWN. THE SOLIDIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 3.



TC LL	20.0 PSF	REF	R487 - - 52597
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321025
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137264
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2E487/201

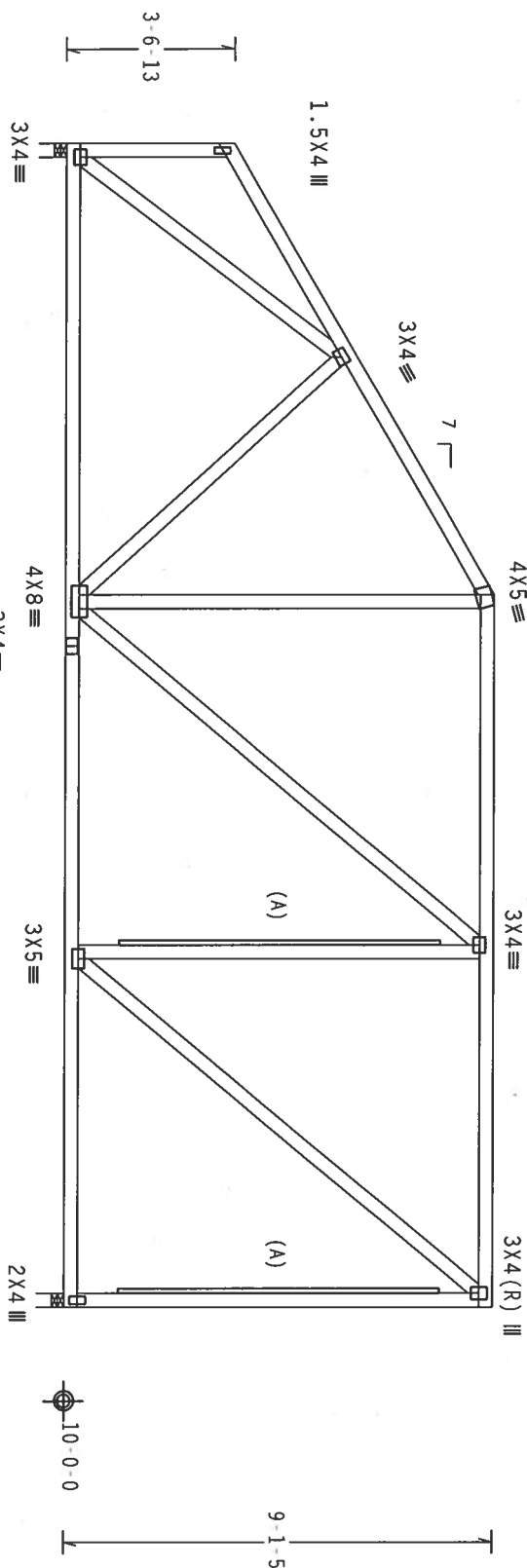
Wind reactions based on MWFRS pressures.

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

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

110 mph wind, 16.34 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TO DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.



R=1022 U=180 W=3.5 m

R=1022 U=180 W=3.5^m

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

100% OFFENSE

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

Scale = .25" / Ft.

WARNING ISSUES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (WOOD TRUSS COUNCIL OF AMERICA, 6500
 ENTERPRISE LANE, MOISTON, VA, 53179) FOR SAFETY PRACTICES PRIOR TO PERFORMING THE SE FUNCTIONS. UNLESS
 OTHERWISE INDICATED FOR 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.

TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2 AND 160B-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 COMPONENTS

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND ARCHITECT. SEE 3.

Alpine Engineered Products, Inc.

1950 Manley Drive
Haines City, FL 33844
Certificate # [redacted]

BUILDING DESIGNER PER ANSI/ISO 1 SEC. 2.

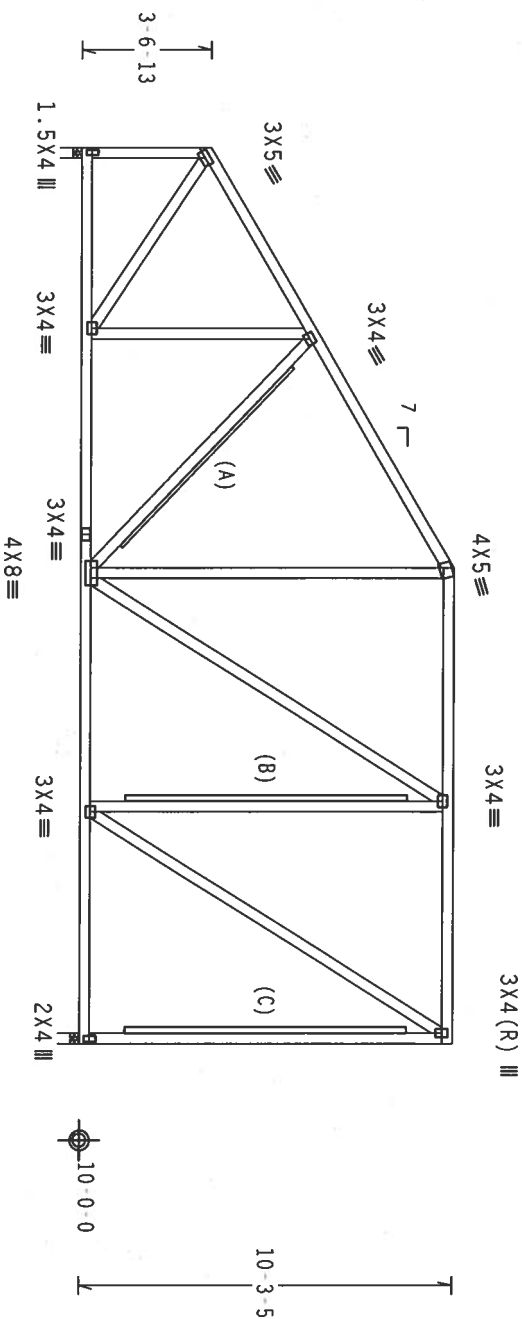
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TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321024
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137271
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2E487 201

110 mph wind, 16.92 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

End verticals not exposed to wind pressure.

(B) 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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



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

* * *WARNING**

TISSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRESS PAPEL INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD ROSS COUNCIL OF AMERICA, 6300 ENTERPRISE LAKE, MANASSAS, VA, 71319) FOR SAFFETY PANELS PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGID CEILING.

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

TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING

CONNECTOR PLATES ARE MADE OF 20/18/16GA (M.H/SS/K) ASTM A653 GRADE 40/60 (M. K/H,SS) GALV.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

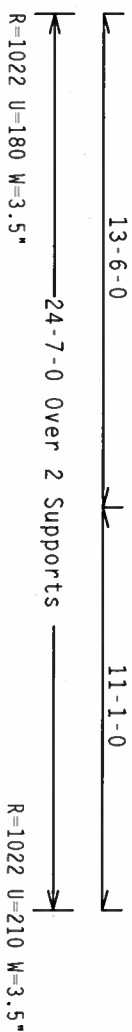
[illegible]

FL/-4/-1/-R/-		Scale = .1875"/ft.
TC LL	20.0 PSF	REF R487-- 52599
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCURSR487 06321145
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137280
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_201

Wind reactions based on MWFRS pressures.

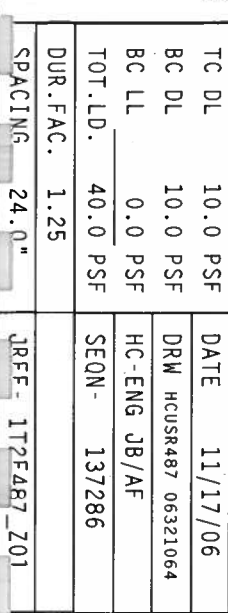
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



Scale = .1875"/Ft.

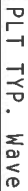
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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


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

7.24.1

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

Scale = .1875"/Ft.

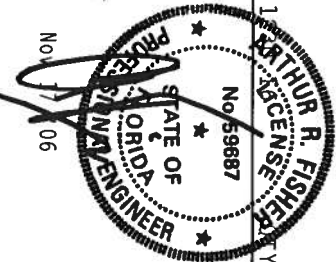
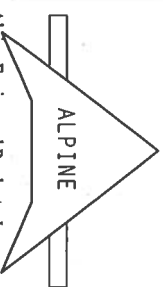
****IMPORTANT****
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIAA) AND TPI CONNECTOR PLATES ARE MADE OF 304/18-10CA (316/18-10CA) ASTM A363 GRADE 40/60 (414/60) 2019

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPII-2002 SEC.3. A SEAL ON THIS

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

1950 Marley Drive
Haines City, FL 33844
Certificate #



TC LL	20.0 PSF	REF	R487 - - 52601
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321036
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN -	137291
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1T2F487_201

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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


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

Scale = .25" / Ft.

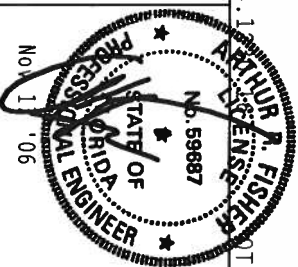
**** IMPORTANT ****
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AASD) AND TPI. ALPINE

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEY A3 OF TB11-2002 SEC 3 A SEAL ON THIS PLATES TO EACH FACE OF HOUS AND; UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS BOOK 2

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANSI/7P1 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 52602
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCU8R487 06321037
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137299
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487 201

Top Chord 2x6 SP #2 :T1 2x4 SP #2 Dense:
Bot Chord 2x8 SP #5
Webs 2x4 SP #3

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 30.08
BC - From 20 PLF at 0.00 to 20 PLF at 30.08
TC - 190 LB Conc. Load at 7.06, 9.06
BC - 428 LB Conc. Load at 7.00
BC - 82 LB Conc. Load at 9.06
BC - 1876 LB Conc. Load at 10.46

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

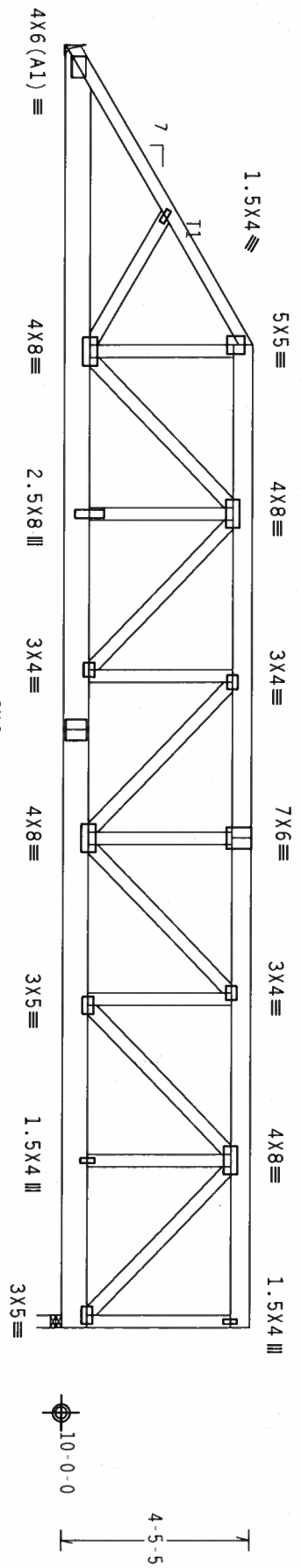
2 COMPLETE TRUSSES REQUIRED

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



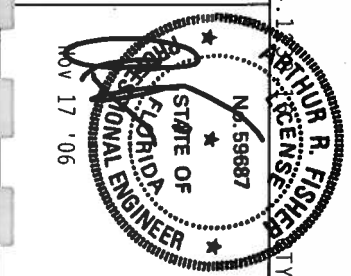
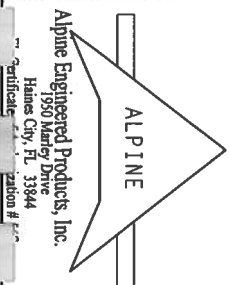
7-0-0
30-1-0 Over 2 Supports
23-1-0
R=3151 U=246
R=2116 U=182 W=3.5"

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 100, ALEXANDRIA, VA 22304. (703) 596-8877. ENTERPRISE LANE, MAISON, MI 53119 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 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 20/18/160A (W/HSS/V) ASTM A553 GRADE 40/60 (W, K/H,SS) 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 AMEX AS OF TPI-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



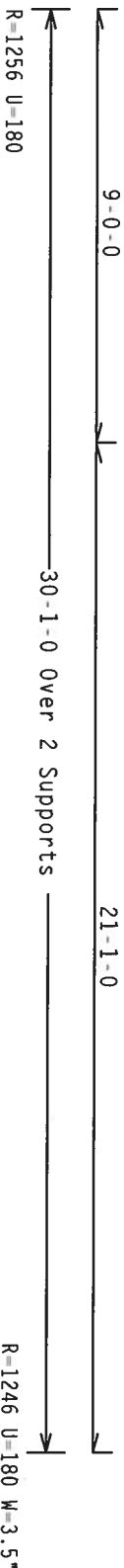
TC LL	20.0 PSF	REF R487-- 52603
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321001
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137709
DUR.FAC.	1.25	
SPACING	24.0"	

FL/-/4/-/-/R/-	Scale = .25"/ft.
TC LL	REF R487-- 52603
TC DL	DATE 11/17/06
BC DL	DRW HCUSR487 06321001
BC LL	HC-ENG JB/AF
TOT.LD.	SEQN- 137709
DUR.FAC.	
SPACING	

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

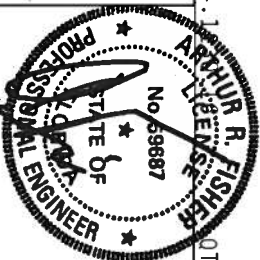
 $C_q/RT=1.00(1.25)/10(0)$

Scale = .25"/Ft.

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

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844
Certificate # 1112



Nov 17 '06

TC LL	20.0 PSF	REF	R487 - 52604
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321073
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137506
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_Z01

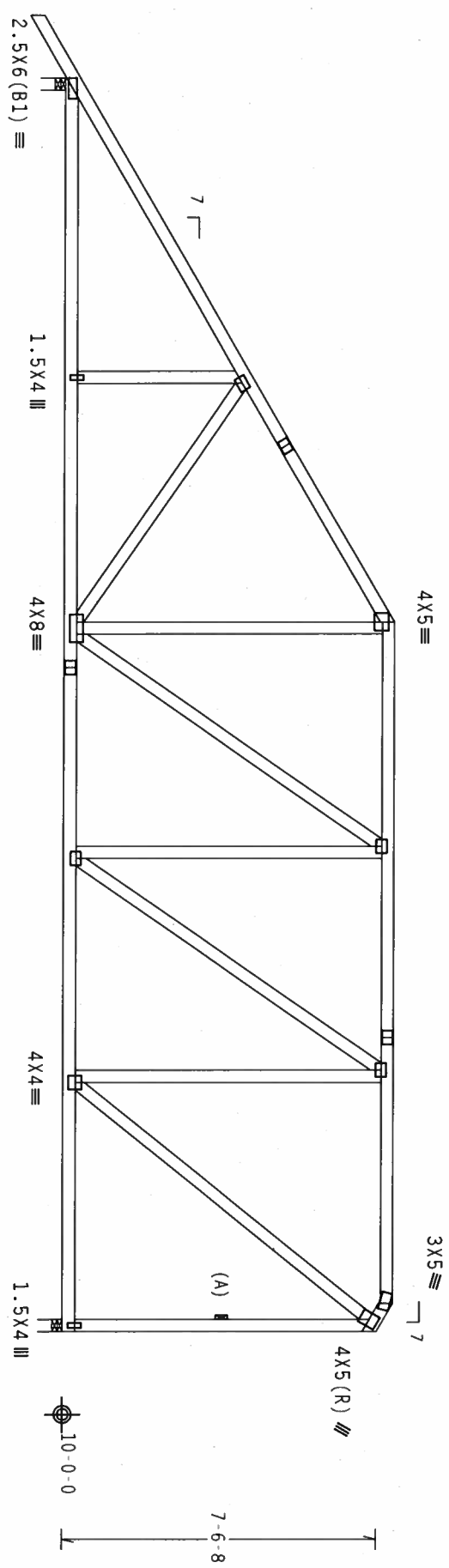
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

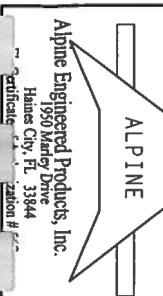


13-0-0
16-4-12
0-8-4
30-1-0 Over 2 Supports
R=1362 U=180 W=3.5"
R=1242 U=180 W=3.5"

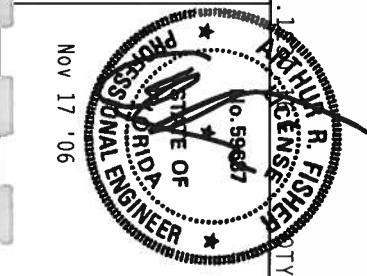
Note: All Plates Are 3X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR DETAILED INFORMATION. THE TRUSS IS DESIGNED FOR A NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH WOOD TRUSS JOINTS. THE TRUSS IS NOT TO BE USED FOR ANY OTHER PURPOSE. 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-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-2002(STD)/FBC. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/TS) ASTM A653 GRADE 40/60 (W, K/M, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF TRUSSES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487-- 52606
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321019
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SECN	137494
DUR. FAC.	1.25		
SPACING	24.0"	REF	1T2FA87_201

Wind reactions based on MWFRS pressures.

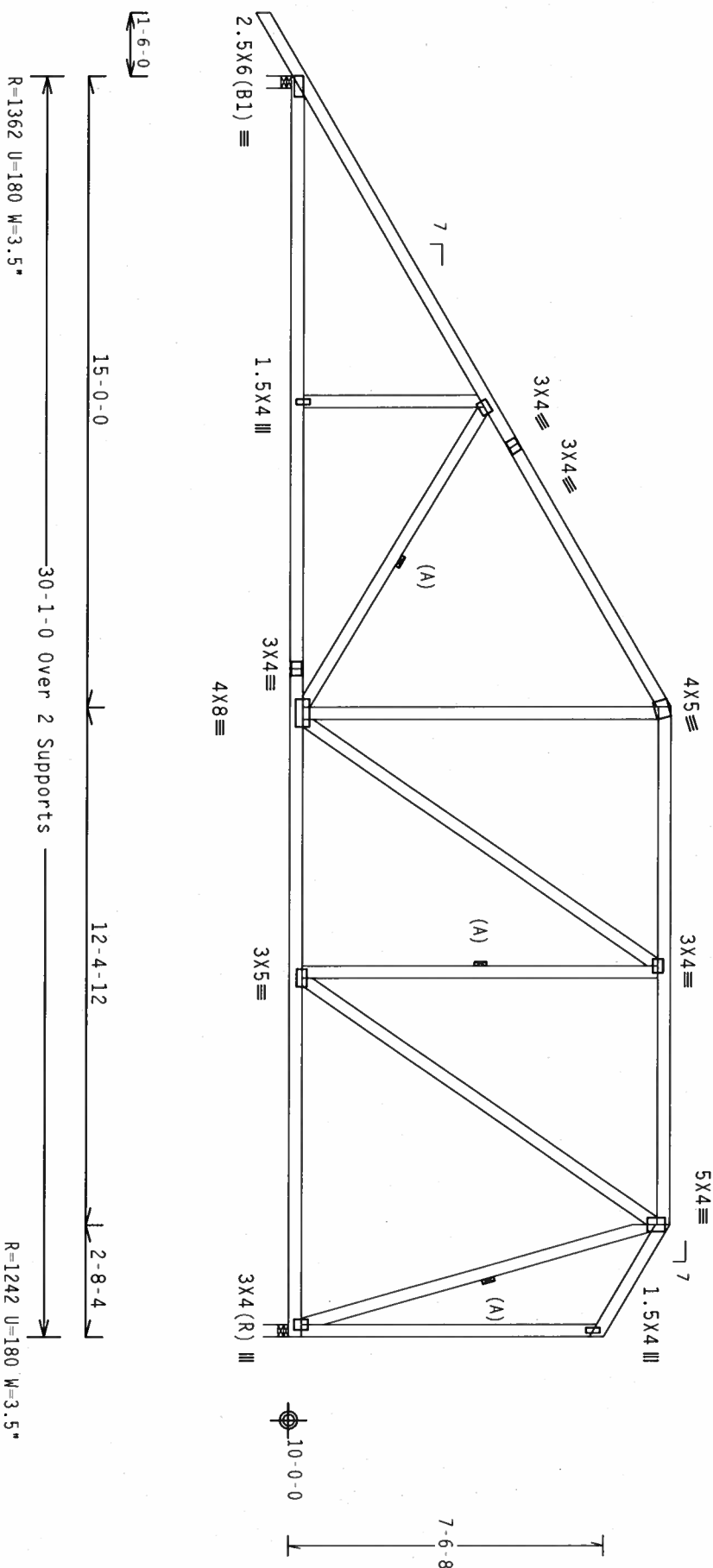
(A) Continuous lateral bracing equally spaced on member.

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

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$\frac{Cq}{RT} = 1.00(1.25)/10(0) \quad 7.24.1$$

QTY:1 FL/-/4/-/-/R/-

Scale = .25"/Ft.

*****WARNING*****
 THESE RESIDUE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRILLING
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE), 218
 NORTH LEE STREET, SUITE 312, ALABAMA, VA, 22314) AND WCA (WOOD JOINTS COUNCIL OF AMERICA, 6300
 ENTERPRISE LANE, MOJOSON, VA, 53139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIRABLE
 OBTAINMENT 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.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC, BY AASHTO) AND TPI CONNECTOR PLATES ARE MADE OF 30/18/1364 (U H/3/4) ASTM A572 GRADE 50/60 (U H/3/4) 50K

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2 CONNECTION PLATES ARE MADE OF 20/10/1000 (W.M.H.35/K) AS118 A633 GRADE 40/50 (W. K/H.35) GALV. STEEL. APPLY

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 SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

☐ ☐ ☐ ☐ ☐ ☐

Nov 17 '06

Nov 17 '06

TC LL	20.0 PSF	REF	R487 - 52607
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321020
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137484
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

Wind reactions based on MMFRS pressures.

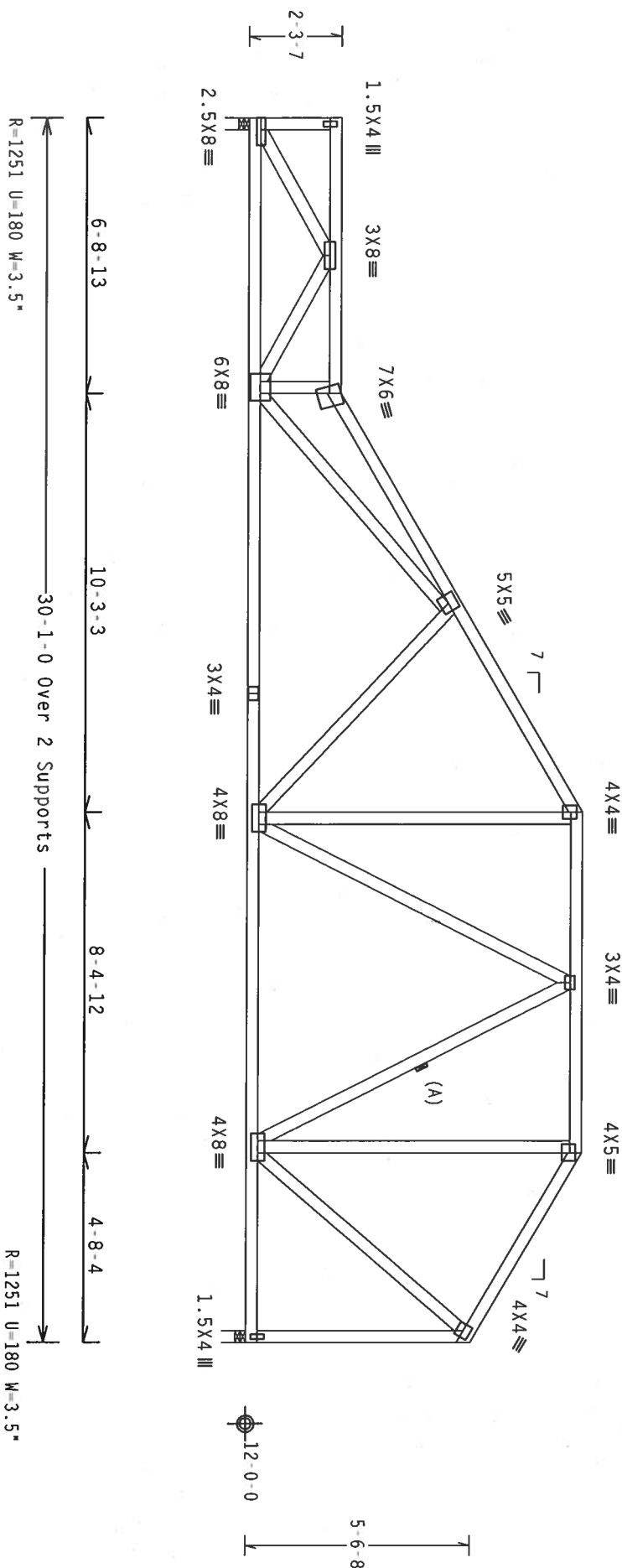
Max JT VERT DEFL: LL: 0.20" DL: 0.33" recommended camber 1/2"

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind; 17.28 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

FL/4/R/

Scale = .25"/Ft.

WARNING
 TISSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
 REFER TO RC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PAPER INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6500
 ENTERPRISE AVE., MOISTON, IA 52558) 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.

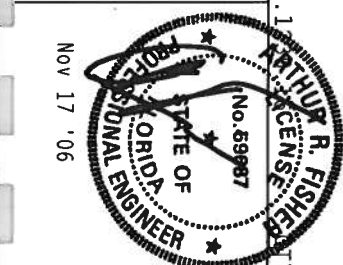
****IMPORTANT****
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

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 APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI.

CONNECTOR PLATES ARE MADE OF 2019-T3 ALUMINUM. ACTUAL WEIGHT APPROX. 2.5 LBS PER LINEAL FOOT.

CONVECTION COEFFICIENT VALUE OF 25 W/TO/TOOK (W/M²/K) IN ROOM 3003 DURING 40/60/80 (°C, M, R/H, 253) SHELL. 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 TPII-2002 SEC.3. 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.



TC LL	20.0 PSF	REF	R487--	52608
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCUSR487	06321021
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON-	137475	
DUR.FAC.	1.25			
SPACING	24.0"	DRFF-	1T2F487_201	

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

Wind reactions based on MMFRS pressures.

Max JT VERT DEFL: LL: 0.15" DL: 0.24" recommended camber 3/8"

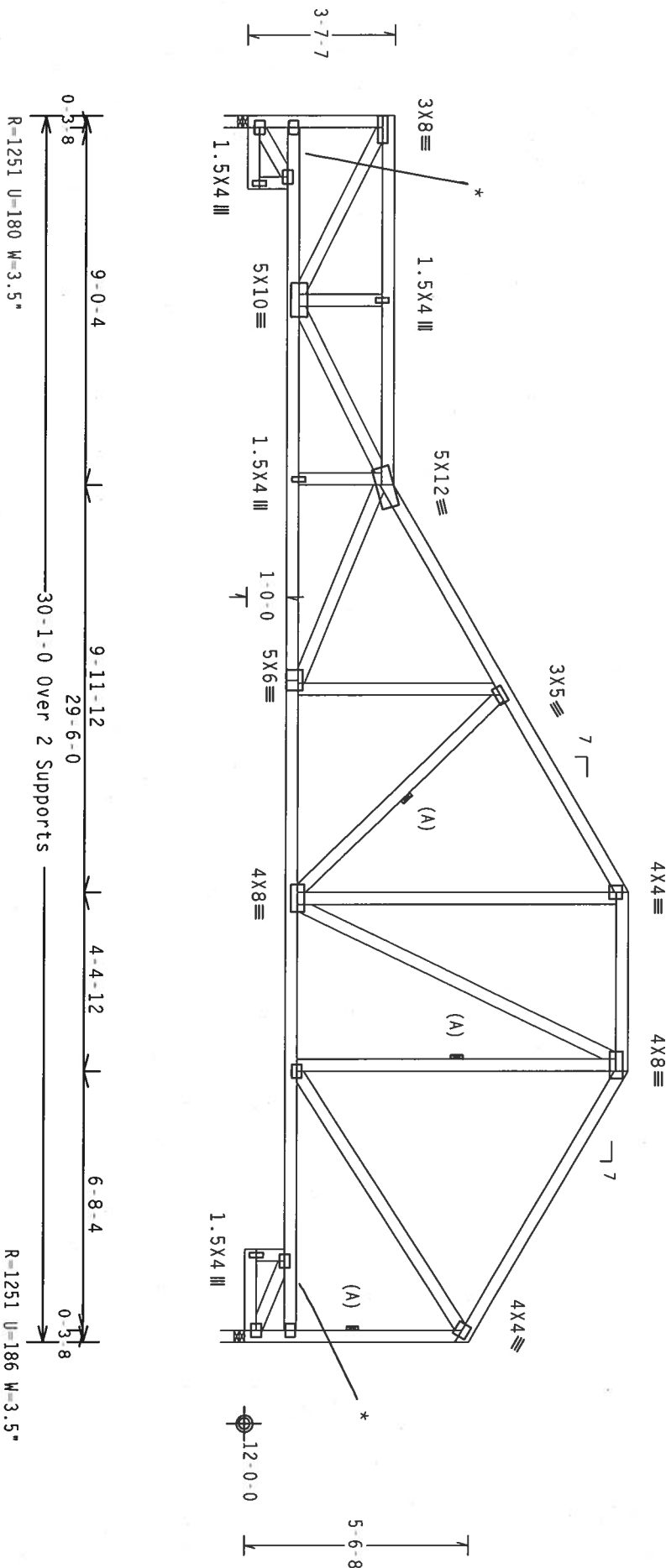
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

* MEMBER MUST BE BRACED @ 24"OC.

110 mph wind, 18.53 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.



Note: All Plates Are 3x4 Except As Shown.

PLT TYP. Wave

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

7.24.12

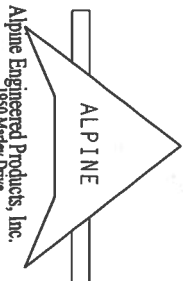
FL/-4/-/R/-

Scale = .25"/ft.

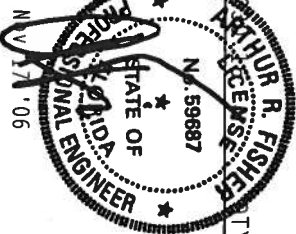
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REPAIRS TO TRUSSES SHOULD BE MADE BY A TRUSS SPECIALIST. TRUSS SPECIALIST, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE 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-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H, SS) 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 AMEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SIGNATURE OF A PROFESSIONAL ENGINEER. SOLELY FOR THE TRUSS COMPONENT DESIGN, SHOWN HERE, THE SIGNATURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487--	52609
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCSR487	06321022
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEON-	137466	
DUR.FAC.	1.25			
SPACING	24.0"			
		DRFF-	1TPE487_201	

110 mph wind, 19.71 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.19" DL: 0.31" recommended camber 1/2"

SEE DWGS TCFILLER103 AND BCFILLER103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.



PLT TYP. 18 Gauge HS, wave

STATE OF
No. 59687
ARTHUR R. FISHER
LICENSE

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

Scale = .1875" / Ft.

TC LL	20.0 PSF	REF	R487--	52610
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TC DL	10.0 PSF	DATE	11/17/06
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BC 01	70 0 PSE	DDW UCUS0807 05331031
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[illegible][illegible]

101.ED.	40.0 PSF	SEQN -	13/458
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DUR.FAC. 1.25

SPACING	24.0"	JRFF - 1T2F487-201
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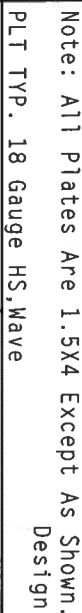
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE ROOF IN CONFORMANCE WITH THE FOLLOWING FABRICATING, HANDLING, SHIPPING, INSTALLING & BAKING OF TUSSESS, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HUD NATIONAL DESIGN SPEC. BY AIA/AI AND TPI. APPLICABLE CONNECTION PLATES ARE MADE OF 2016/6064 (H/S/S76) ASHT A655 GROUND, 40/60 (K/R/55) GALV. STEEL. A SEAL ON THIS SPACE OF TUSSESS AND TUSSES OTHERWISE NOTED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF TUSSESS AND TUSSES SHALL BE MADE BY TUSSESS AND TUSSES, 11/11/2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING/ARCHITECTURAL/SEAL FOR THE TUSSESS COMPONENTS/DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Wind reactions based on MMFRS pressures.

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

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

Max JT VERT DEFL: LL: 0.19" DL: 0.31" recommended camber 1/2
(A) Continuous lateral bracing equally spaced on member.



Design Crit: TPI-2002(STD)/FBC

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

ITY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

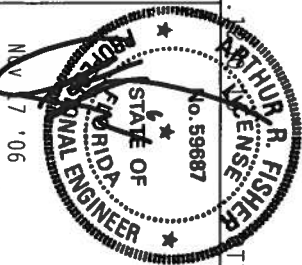
WARNING
TESTS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD ROSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, MOULDSB, IN 45719) 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

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 AISC) AND TPI. APPLICABLE CONNECTION DETAILS ARE MADE OR MODIFIED IN ACCORDANCE WITH AISC CONNECTION DETAILING GUIDE.

CONNECTION PLATES SHALL BE MADE OF 201/20T ALUMINUM 90/10 ZINC (W. 90.15% GALV. STEEL. APPLICABLE 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 1911-2002 SEC.3. A SEAL ON THIS DOCUMENT SHALL BE REQUIRED FOR THE TRUSS COMPONENT DRAWING. INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52611
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUR487 06321033
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137451
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

THIS WAS PREPARED FROM COMPUTER INPUT (LUAS & DIMENSIONS) SUBMITTED BY IKUSS MRK.

110 mph wind, 18.19 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Provide for complete drainage of roof.



Scale = .25"/Ft.

No. 59687

SEP 1964

90

19

TC LL	20.0 PSF	REF	R487 - 52612
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321034
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137517
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2E487_Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 : W2 2x4 SP #2 Dense:

Wind reactions based on MMFRS pressures.

Max JT VERT DEFL: LL: 0.17" DL: 0.27" recommended camber 1/2"

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

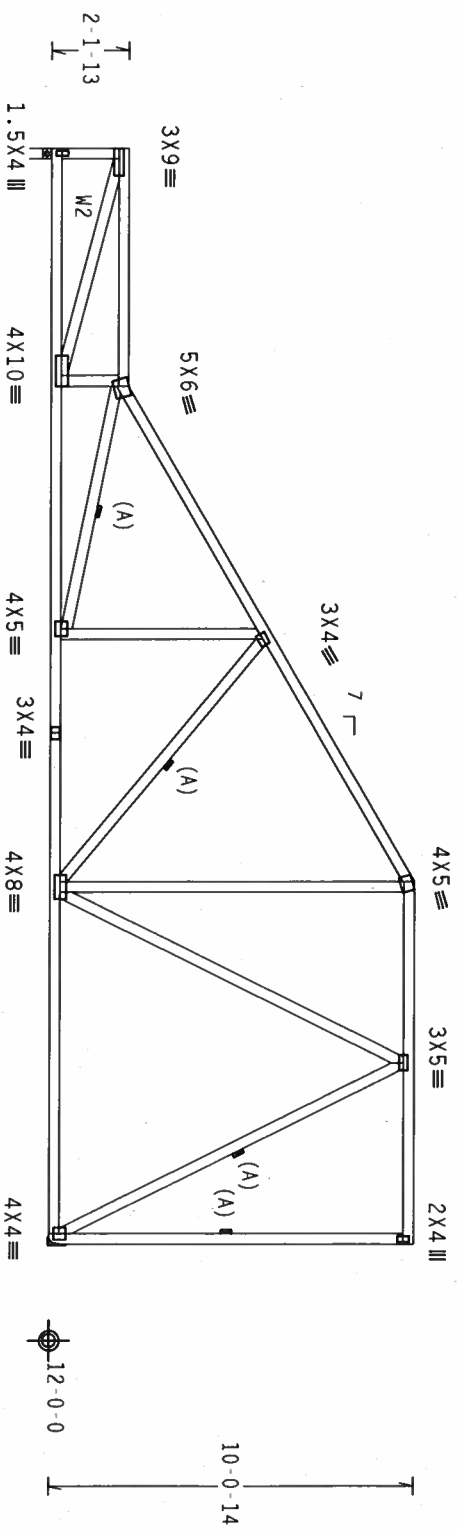
Provide for complete drainage of roof.

110 mph wind, 18.11 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



6-6-0 13-7-0 10-0-0
30-1-0 Over 2 Supports
R=1251 U=180 W=3.5"
R=1251 U=228

PLT TYP. Wave

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

QTY:1

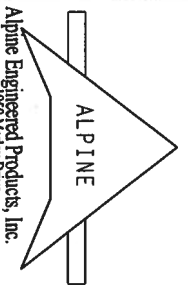
FL/-/4/-/R/-

Scale = .1875"/ft.

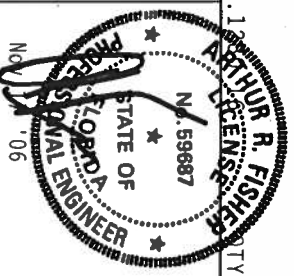
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS SHALL BE STORED ON A FLAT SURFACE AND NOT BENT OR TWISTED. THE TRUSS SHALL BE LIFTED BY THE TOP CHORD AND NOT BY THE WEBS. THE TRUSS SHALL BE INSTALLED ON A PROPERLY ATTACHED RIGID CEILING.

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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/K) ASTM A653 GRADE 40/50 (W/ K/H/55) 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 THE QUALITY OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNING AND NOT THE QUALITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX 171.1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487-- 52613
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321030
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SECON	137524
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1172487_201

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3

SPECIAL LOADS

TC - From	61 PLF at 0.00 to 61 PLF at 7.50
BC - From	20 PLF at 0.00 to 20 PLF at 7.50
TC -	-61 LB Conc. Load at 1.54, 5.96
TC -	-26 LB Conc. Load at 1.98, 5.52
TC -	-5 LB Conc. Load at 2.63, 4.87
TC -	7 LB Conc. Load at 2.85, 4.65
BC -	-17 LB Conc. Load at 1.54, 5.96
BC -	-9 LB Conc. Load at 1.98, 5.52
BC -	-5 LB Conc. Load at 2.63, 4.87
BC -	3153 LB Conc. Load at 2.87, 4.65
BC -	2 LB Conc. Load at 4.81, 6.81
BC -	1256 LB Conc. Load at 4.81, 6.81

SPECIAL LOADS

TC - From	62 PLF at 0.00 to 62 PLF at 7.50
BC - From	619 PLF at 0.00 to 619 PLF at 7.50

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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.

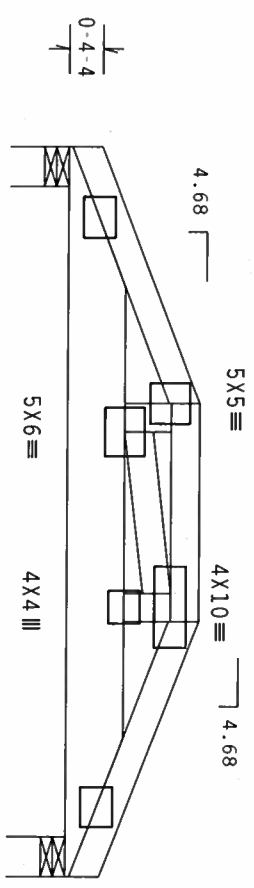
Wind reactions based on MWFRS pressures.

Wind load based on ASCE 7-02 category I occupancy. Restricted to non-residential use with low hazard to human life, such as agricultural use.

In lieu of structural panels or rigid ceiling use purlins to brace TC 24" OC, BC @ 24" OC.

Girder supports 31'-1-0" span to BC one face and 2'-0-0" span to TC/BC split opposite face.

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



4X5 (A1) ≡ 4X5 (A1) ≡

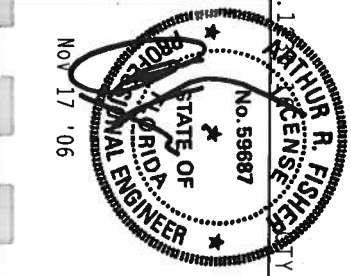
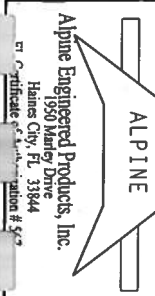
2-7-9 2-2-13 2-7-9
7-6-0 Over 2 Supports
R=2687 U=215 W=4.95"
R=3359 U=215 W=4.95"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/R=1.00(1.25)/10(0) 7.24.1

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PRODUCTIONS, INC., 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/4/55/K) ASTM A653 GRADE 40/60 (K, W/4/55) GALV. STEEL. APPLY ANY APPLICABLE PLATE SPECIFICATIONS. (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. 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.



TC LL	20.0 PSF	REF R487-- 52614
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321001
BC LL	0.0 PSF	HC-ENG DAL/AF
TOT.LD.	40.0 PSF	SEQN- 17540
DUR.FAC.	1.25	
SPACING	24.0"	

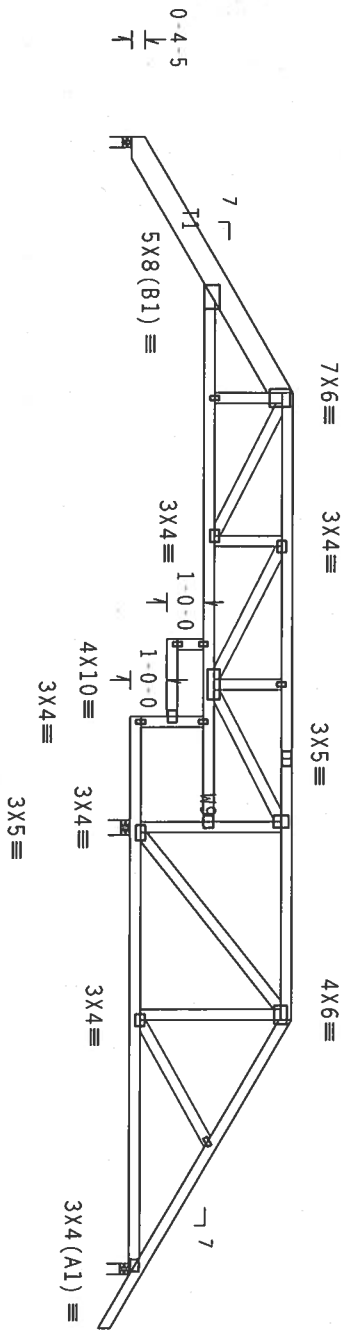
Scale = .5"/ft.
JREF- 1T2FA87_Z01

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

SPECIAL LOADS

	(LUMBER DUR.FAC. = 1.25 / PLATE DUR.FAC. = 1.25)
TC - From	63 PLF at 0.00 to 63 PLF at 7.00
TC - From	151 PLF at 7.00 to 151 PLF at 24.17
TC - From	63 PLF at 24.17 to 63 PLF at 32.67
BC - From	20 PLF at 0.00 to 20 PLF at 7.00
BC - From	89 PLF at 7.00 to 89 PLF at 24.17
BC - From	20 PLF at 24.17 to 20 PLF at 31.17
BC - From	5 PLF at 31.17 to 5 PLF at 32.67
BC - 500 LB Conc.	Load at 7.00, 24.17

NOTE: LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 2'0" O.C., MAX. INCLUDING A LATERAL BRACE AT CHORD ENDS.



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.

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.17" due to live load and 0.25" due to dead load.

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

2 COMPLETE TRUSSES REQUIRED

```

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.))_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs      : 1 Row @ 4" o.c.

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

```

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.17" due to live load and 0.25" due to dead load.

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

Note: All Plates Are 1.5X3 Except As Shown.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.31.18

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

Scale = .1875"/Ft.

*****WARNING*****
 THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DRIVING
 INTO PLACE. (GULFSTREAM COMPONENTS SALES INFORMATION). PUBLISHED BY TPI (TRUSS PACE INSTITUTE), 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND ATCA (WOOD JOINT COUNCIL OF AMERICA), 6500
 ENTERPRISE LANE, MALDEN, MA 02148 FOR SAFETY PRACTICES PRIOR TO WOOD JOINTS THESE FUNCTIONS. UNLESS
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED RIDGE CEILING.

INFORMANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IF FAILURE TO BUILD THE DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., WY), AND IPI. APINE DESIGN CONNECTOR PLATES ARE MADE OF 80/18/60GA (W/H) 55/25% ASTM A653 GRADE 40/60 (W/ K) 55% GALV. STEEL. APINE PLAYERS TO EACH FACE OF TRUSS AND JOISTS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z. DRAWING INDICATES ACCEPTANCE METHOD. PROJECT SHALL BE INTERFERED AS OF JANUARY 1, 2002. SEE THE SEAL ON THIS DESIGN SHOW. THE SATISFACTION AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/IPTI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - - 52615
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06s21002
BC LL	0.0 PSF	HC-ENG	DAL/AF
TOT.LD.	40.0 PSF	SEQN -	13401 REV
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2F487_201

Top Chord 2x4 SP #2 Dense : T1 2x8 SP #1 Dense:
Bot Chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

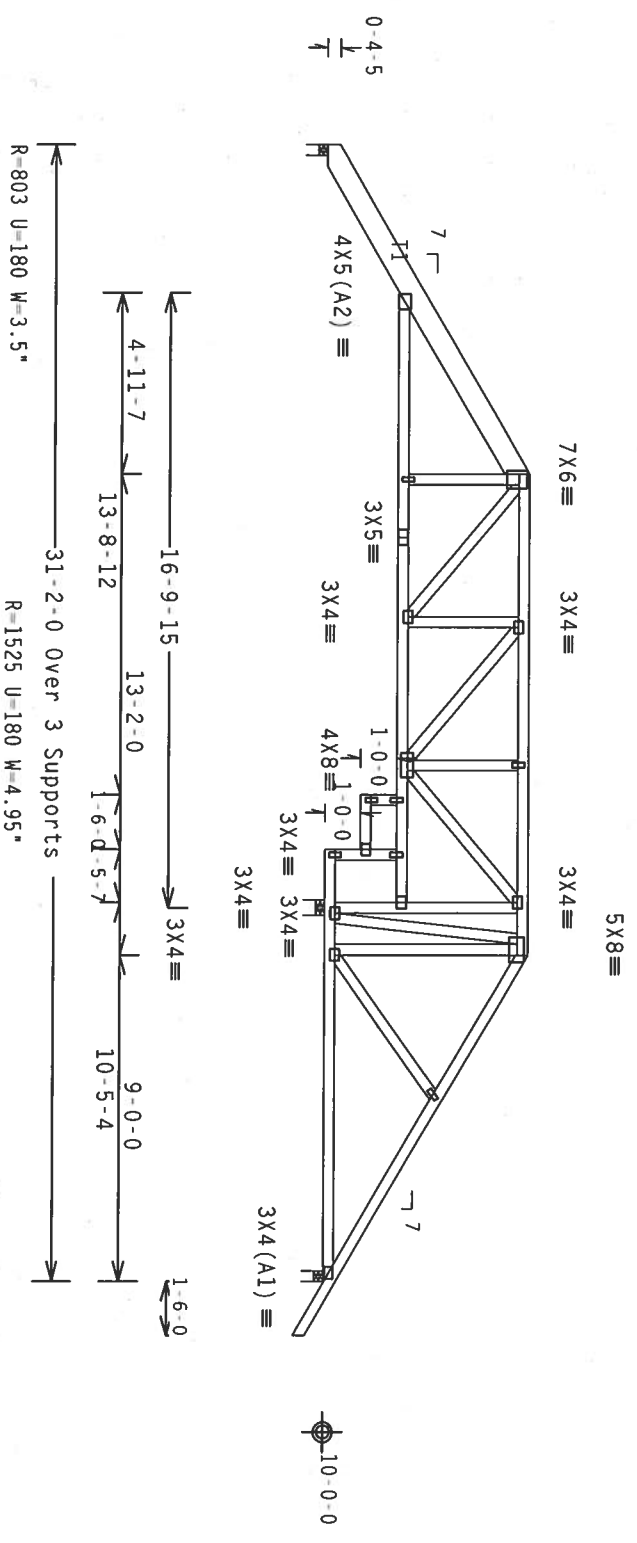
Wind reactions based on MMFRS pressures.

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

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 @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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



Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.24.12

FL/-/4/-/R/-

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SKETCH) INFORMATION SHEET, L.A.G. INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WALK THROUGH TRUSS CONSTRUCTION, 6TH EDITION, 1990, 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 ASCE) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/166A (N/A/SS/VS) ASTM A653 GRADE 40/60 (N/A/SS) GALV. STEEL. APPLY LATERAL BRACING TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL TRUSSES SHALL BE PER ANEKS AS OF TPI-1-2002 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/TP1 SEC. 2.

ALPINE

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

Professional Engineer
No. 59687
Nov 7 '06

TC LL	20.0 PSF	REF	R487 - 52616
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321136
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEON-	137955
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1TPE487-201

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC₀=DL=5.0 psf, wind BC DL=5.0 psf.

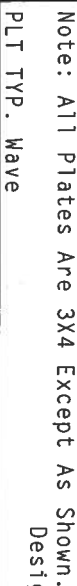
SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C., AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

Top chord:	1 Row	@12.00	0.0 c.
Bot chord:	1 Row	@12.00*	0.0 c.

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

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



Design Crit: TPI-2002(STD)/FBC

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

7.24.138-15 CENS. EX. 1

Scale = .1875" / Ft.

*****WARNING*****
 ISSUES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO RC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (TRUSS PAPER INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND VICA (WOOD ROSS COUNCIL OF AMERICA, 6300
 ENTERPRISE LANE, MOHIOSEN, MI 48139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
 OTHERWISE INDICATED FOR 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.

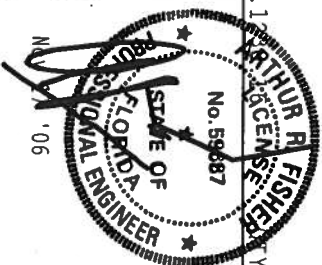
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND ARCHITECT. SEE 5

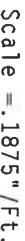
1000



TC LL	20.0 PSF	REF	R487 - 52617
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06621007
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137948
DUR.FAC.	1.25		
SPACING	24.0"	JRF	1T2F487_201

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



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

REF	R487--	52619
DATE	11/17/06	
DRW	HCUSR487	06321138

1950 Marley Drive
Haines City, FL 33864

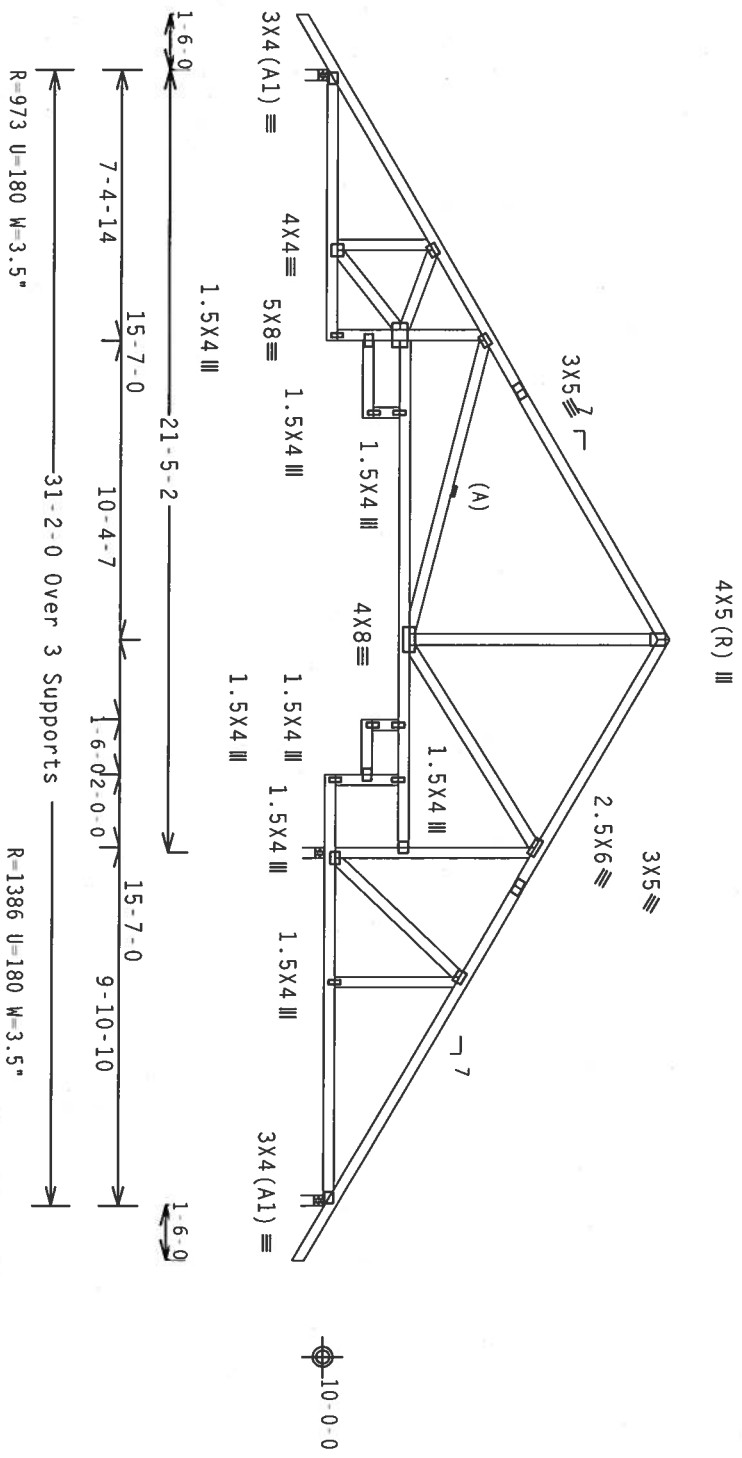
Top Chord 2x4 SP #2 Dense
Bot Chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf.
(A) Continuous lateral bracing equally spaced on member. Or 2x4 SP #3 or better "T" brace, 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.



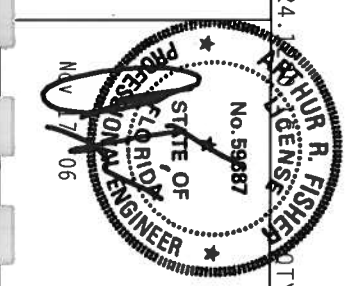
Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC/SI (BUILDING COMPONENTS) AND TC/SI (TRUSS COMPONENTS) FOR ADDITIONAL INFORMATION. THE NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22311, AND WITNESS TRUSS COMPANY, INC., 1000 TRUSS COMPANY DRIVE, ENTERPRISE LANE, 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. CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE TRUSSES TO EACH FACE OF TRUSS AND, 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. 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/PTI 1 SEC. 2.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization #57



TC LL	20.0 PSF	REF	R487--	52620
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCSR487	06321072
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	137903	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	172F487_201	

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 52621
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321011
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137874
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_Z01

Wind reactions based on MMFRS pressures.

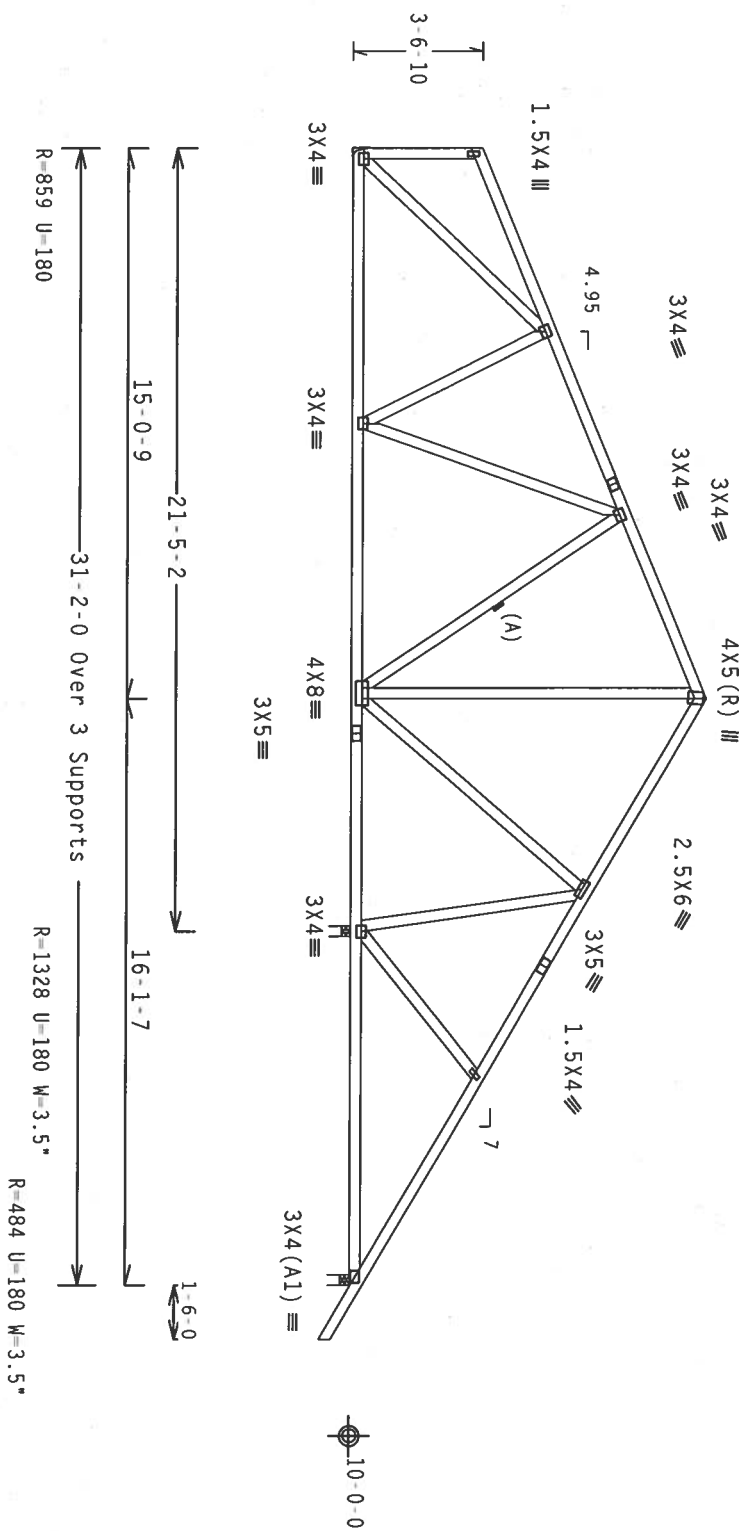
Left end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

STY:1

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

Scale = .1875"/Ft.

*****WARNING*****
 TISSUES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGGING. (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TIBBS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALBEMARLE, VA 22314, AND VICO (WOOD ROSS COUNCIL OF AMERICA), 6100 ENTERPRISE LANE, MOISON, VA 53179 FOR SAFETY PRACTICES THAT MAY BE REQUIRED FOR THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

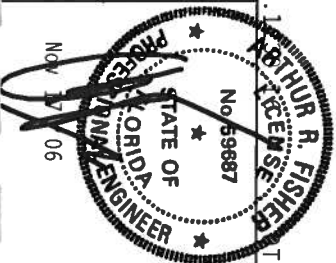
**** IMPORTANT ****
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TP1. ALTHOUGH

CONNECTION PLATE MADE OF 201/18" (M, H/35) K/ASB A553 GRADE 40/60 (N, K/H/35) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEY AS OF TRIL 2002 SEC 3. A SEAL ON THESE

THE SUITABILITY AND USE OF THIS COMPONENT FOR THE TRUSS COMPONENT DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. A SEAL ON THIS

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - - 52622
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321004
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137869
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2F487 Z01

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

Design Crit: TPI-2002(STD)/FBC

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

7.24.1381

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

Scale = .1875"/Ft.

STATE OF
No. 59687

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Nov 17 '06

1930 Mainey Drive
Haines City, FL 33844
Certificate of Organization # 11111111

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107-107115

110 mph wind, 15.11 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) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

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

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLED

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER

AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

WARNING
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IP1 (TRUSS PAPER INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND VICA (WOOD ROSS COUNCIL OF AMERICA, 6500
 ENTERPRISE LANE, MOH1500, VA 53139) 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. CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018-T6 ALUMINUM. ASTM A929, GRADE 356. 2X 4X .075-THICK (SEE) APPLICATIONS.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2
AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE REQUIRED AS OF THIS DATE AND (2) SHALL BE REQUIRED AS OF THIS DATE

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.

1

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844

James City, Va. 22024

ARTHUR R. FISHER
1915
LICENSE
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Scale = .1875"/Ft.

No. 59687

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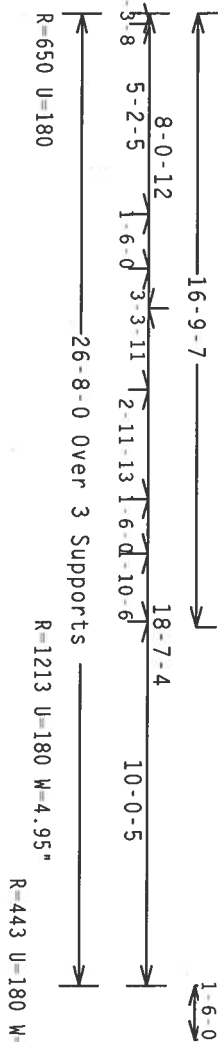
TC LL	20.0 PSF	REF	R487-- 52624
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321144
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137852
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_201

JRFF- 1T2F487_Z01

110 mph wind, 15.35 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/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

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

Scale = .1875" / Ft.

17
ARTHUR R. FISHER
LIBRARIAN
No. 59687
OT

Alpine Engineered Products, Inc.

1. **Attorney General's Office**
 2. **Department of Justice**
 3. **Washington, D.C. 20530**
 4. **Attention: Mr. [Name]**
 5. **Enclosure**
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IMPORTANT FINISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE PROVISIONS OF FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD. NATIONAL DESIGN SPEC. BY AISC AND TPI. CONNECTOR PLATES ARE MADE OF 2010/1604 (IN H/SS/2) ASH 6655 GRADE, 40/60 (W/ H/35) GALV. STEEL. APPLY A MINIMUM THICKNESS OF 10/32 AND 11/32. THE THICKNESS OTHERWISE LISTED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. A SEAL ON THIS DESIGN IS REQUIRED TO PLACE, APPROVED AND IT SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION. DRAWING INDICATES THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Professional Engineer Seal for Arthur R. Fisher, State of Florida, No. 59867, dated Nov 17 '06.

TC LL	20.0 PSF	REF	R487 - - 52625
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321148
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137830
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2F487 201

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

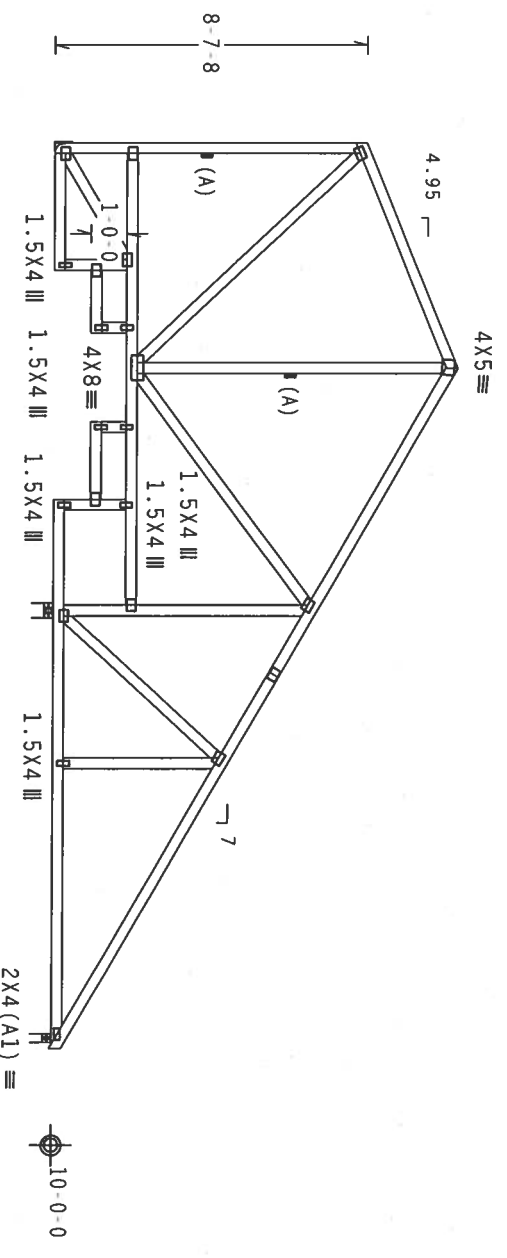
Wind reactions based on MMFRS pressures.

Left end vertical not exposed to wind pressure.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.71 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/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



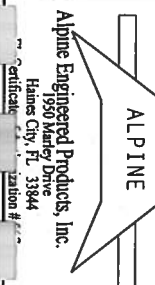
6-1-13 12-9-7 24-8-0 Over 3 Supports 18-6-3 12-0-5 0-2-0
1-8-8 2-5-4 2-1-7 2-10-11
R=498 U=184
R=1086 U=180 W=4.95"
(4.225" Effective Contact) R=469 U=180 W=2.922"

Note: All Plates Are 3X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24

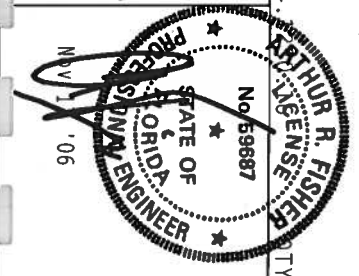
PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFLECT TO THE FOLLOWING: (1) THE TRUSS SHALL BE DESIGNED BY A TRUSS DESIGNER, (2) THE TRUSS SHALL BE
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, (3) THE TRUSS SHALL BE DESIGNED IN ACCORDANCE WITH THE
ENTERPRISE LANE, MAISON, VI 33719 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 MD5 (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/V) ASTM A653 GRADE 40/60 (W. K/H/55) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS
DESIGN SHOWS THE SIGNATURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Registration # 1111



TC LL	20.0 PSF	REF	R487- 52626
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321003
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	137824
DUR. FAC.	1.25		
SPACING	24.0"		
		UREF-	1T2F487_201

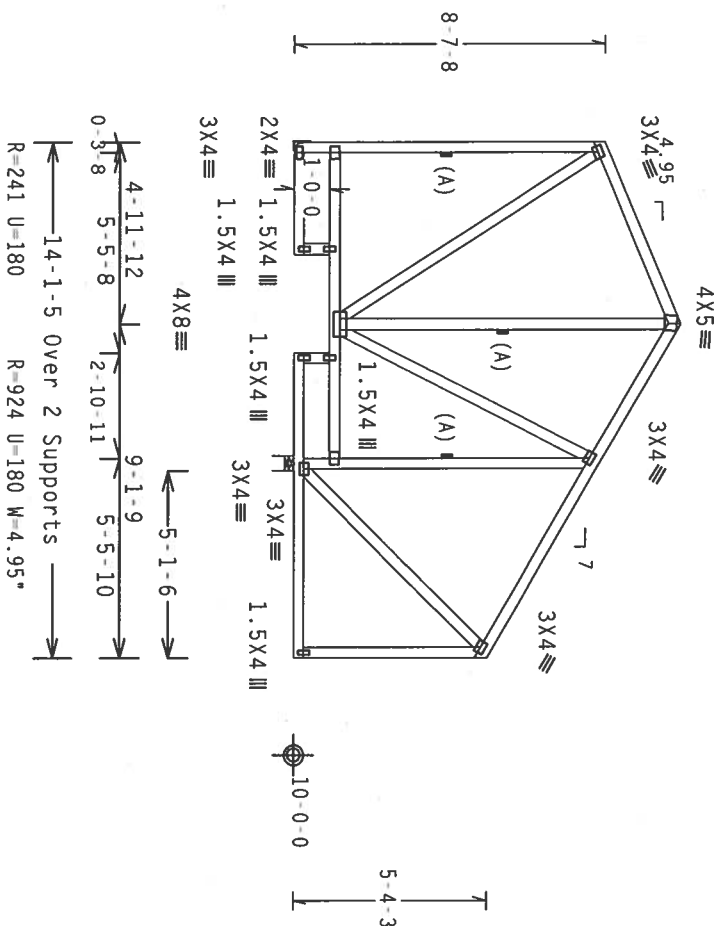
Scale = .1875"/ft.

Wind reactions based on MWFRS pressures.

SEE DWGS TC1111103 AND BC1111103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER

AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A LATERAL BRACE AT CHORD ENDS.

110 mph wind, 18.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

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

Scale = .1875"/Ft.

*****WARNING*****
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO GC#1 (BULLDOG COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PANE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND ATCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
 ENTERPRISE LANE, MAISON, MI 53139) 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.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMANCE WITH TPI'S DESIGN, OR ANY OTHER DEFECTS, SHALL BE THE RESPONSIBILITY OF THE USER.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND IPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (H W/SS/K) ASTM A553 GRADE 40/50 (H K/H SS) CALY

CONNECTION PLATES SHALL BE MADE OF 2014-T3 ALUMINUM (MIL-8917/23/24) 1/4" (6.35) THICK. STEEL APPLIED 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 TPII-2002 SEC.3. A SEAL ON THIS

Alpine Engineered Products, Inc.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



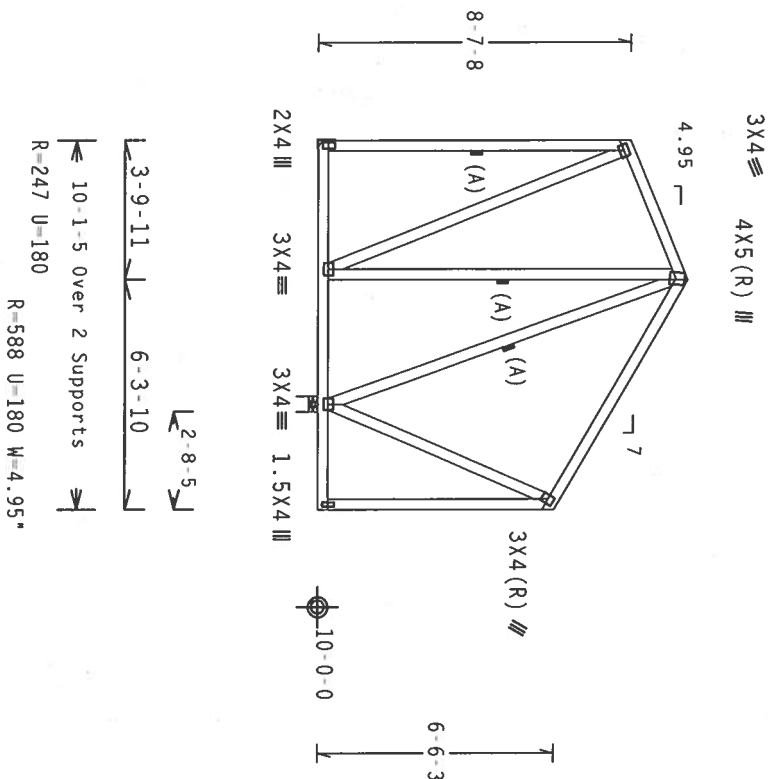
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TC LL	20.0 PSF	REF	R487 - 52627
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSUR487 06321069
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137820
DUR.FAC.	1.25		
SPACING	24.0"	URFF -	1T2F487_201

Wind reactions based on MWFRS pressures.

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

110 mph wind, 18.35 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT 11, EXP B, wind TQ
DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



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

7.24.1

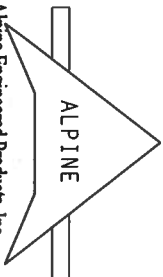
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Scale = .1875"/Ft.

OTENESS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO GC#1 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IP1 (GROSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WOOD (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MOISTON, MI 48159) 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.

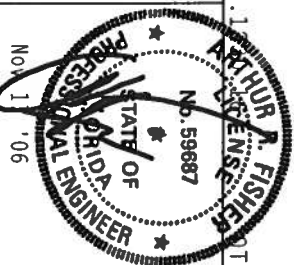
**** IMPORTANT **** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR

PRODUCTS, INC., WILL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE PROJECT IN CONFORMANCE WITH THE: PROOF OF FABRICATING, MANUFACTURING, SHIPPING, INSTALLING & BAKING OF THUSSES; CONCRETE PLATES ARE MADE OF 20/28/17/654 (IN W/55/25) WITH MAXIMUM GRADE 40/60 (IN W/45/55) PLATES TO EACH FACE OF THUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1504-2.3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF APRIL 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE THUS COMPONENTS/DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/ITP 1 SEC. 2.



Alpine Engineered Products, Inc.

1950 Mainly Drive
Haines City, FL 33844
Certification #



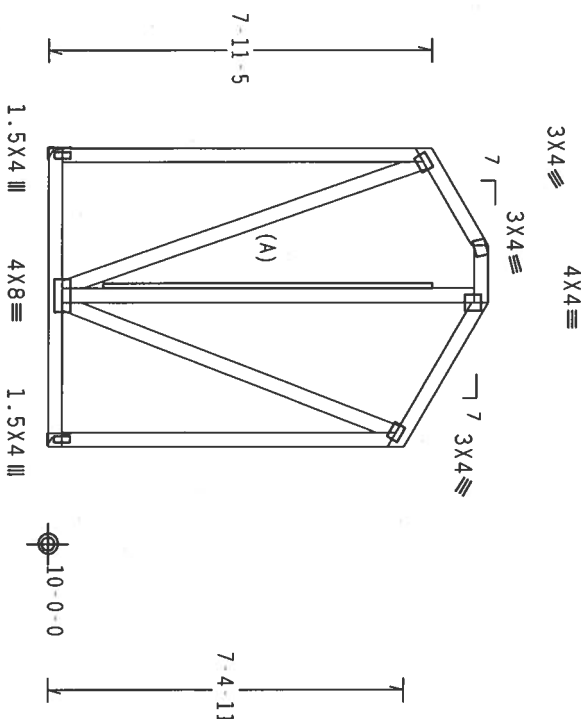
TC LL	20.0 PSF	REF	R487- 52628
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321008
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137815
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

Wind reactions based on MWFRS pressures.

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

110 mph wind, 18.25 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf.

End verticals not exposed to wind pressure.



$\overbrace{1-11-15-1-2-0}^{2-11-6}$
 $\overbrace{6-1-5 \text{ Over } 2 \text{ Supports}}^{R=254 \text{ U}=180 \quad R=254 \text{ U}=180}$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

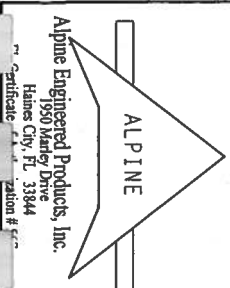
7.24.1

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

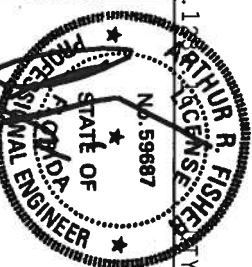
Scale = .25"/Ft.

WARNING THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (TROSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 60TH AVENUE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIRABLE THEMSELVES INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IF FAILURE TO BUILD THESE CONNECTIONS CONFORMS WITH APPLICABLE PROVISIONS OF MOD. NATIONAL DESIGN SPEC. (BY AREA) AND TYPICAL CONNECTION PLATES ARE MADE OF 201/691604 (A/N/S/ST) ASTM A563 GRADE 40/60 (F 47K/F 55) GALV. STEEL. UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1604-2. FLUETS TO EACH FACE OF THUSSE AND. THESE ORIENTMENT LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1604-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE DRAWING CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND THE NECESSARY APPROVALS FOR THE PROJECT. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASHRAE/TYP 1 SEC. 2.



Alpine Engineered Products, Inc



TC LL	20.0 PSF	REF	R487 - - 52629
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321009
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137810
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2F487_201

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

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.27" due to live load and 0.16" due to dead load.

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

110 mph wind, 18.83 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.

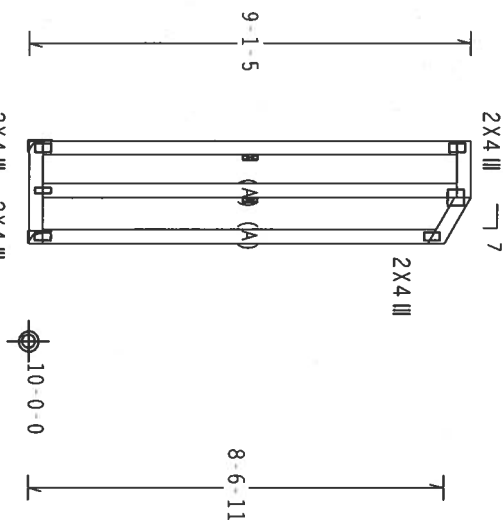
End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Fasten rated sheathing to one face of this frame.

4X4



1.5X4 III

1-1 D5 11-6

2-1-5 Over 2 Supports

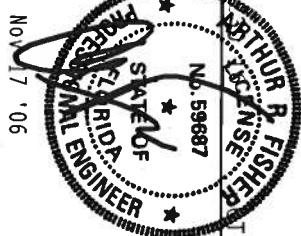
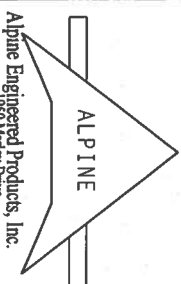
R=88 U=180
R=88 U=180

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI TRUSS SYSTEMS, INC., 6200 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, 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 ASEP) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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.



FL/-/4/-/R/-

Scale = .25"/Ft.

TC LL	20.0 PSF	REF R487-- 52630
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321010
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137812
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 117F487_Z01

Top chord 2x6 SP #2 : T1 2x4 SP #2 Dense:
Bot chord 2x8 SP #1 Dense: B2 2x8 SP SS:
Webs 2x4 SP #3 : W9 2x4 SP #2 Dense:

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) - nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 28.333' 1 12" Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGK1103 for additional information.

Wind reactions based on MMFRS pressures.

(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.

In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.

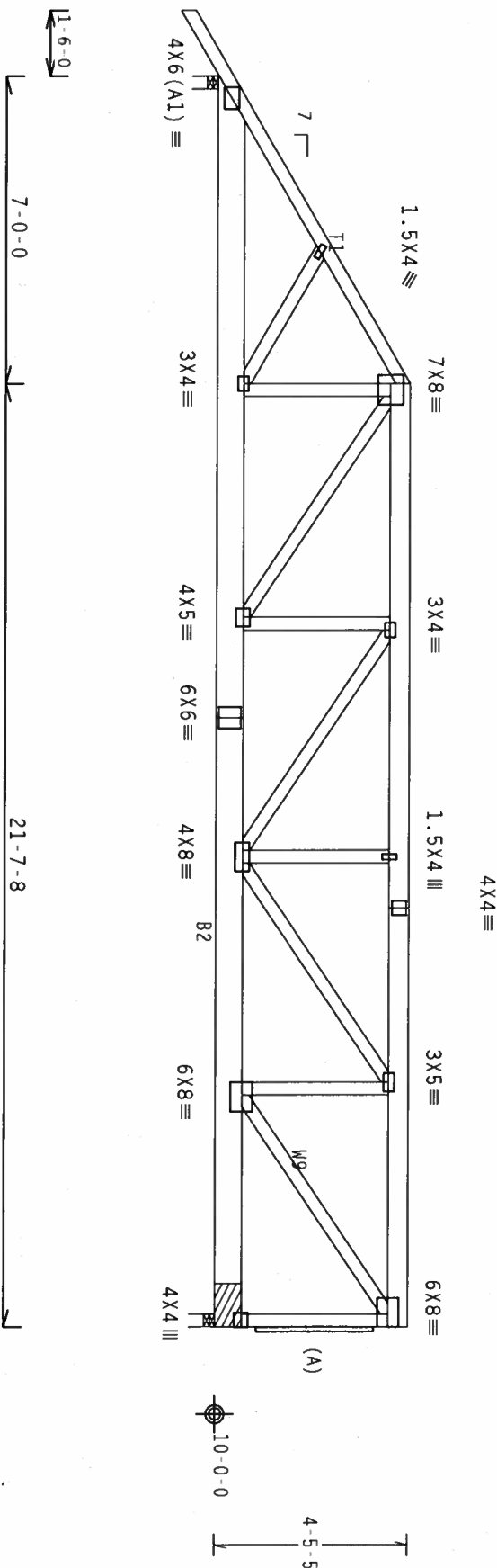
SPECIAL LOADS

----- (LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 28.63
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
TC - From 20 PLF at 0.00 to 20 PLF at 28.63
BC - 190 LB Conc. Load at 23.06, 25.06, 27.06
BC - 1519 LB Conc. Load at 21.13
BC - 82 LB Conc. Load at 23.06, 25.06, 27.06

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.13

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

Scale = .25"/ft.

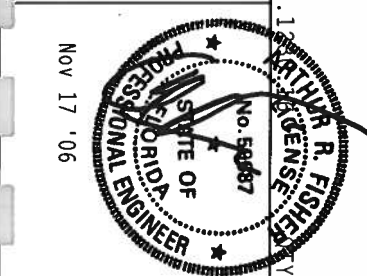
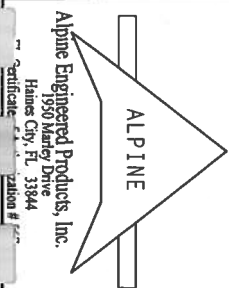
R=1803 U=208 W=3.5"

R=3013 U=365 W=3.5"

WARNING TRUSSES REQUIRING EXTERIOR CODE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.
REVIEW TO BE COMPLETED BY THE TRUSS MANUFACTURER. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE TRUSS DESIGN.
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND WITH A GOOD TRUSS COMPANY. 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 AREA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (W, K/H/SS) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.
INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OF TPI-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES THE TRUSS HAS BEEN INSPECTED AND APPROVED BY A PROFESSIONAL ENGINEER. THE TRUSS COMPANY
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487- 52631
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321122
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SECN- 137759
DUR. FAC.	1.25	
SPACING	24.0"	DRFF- 1TPE487_201

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

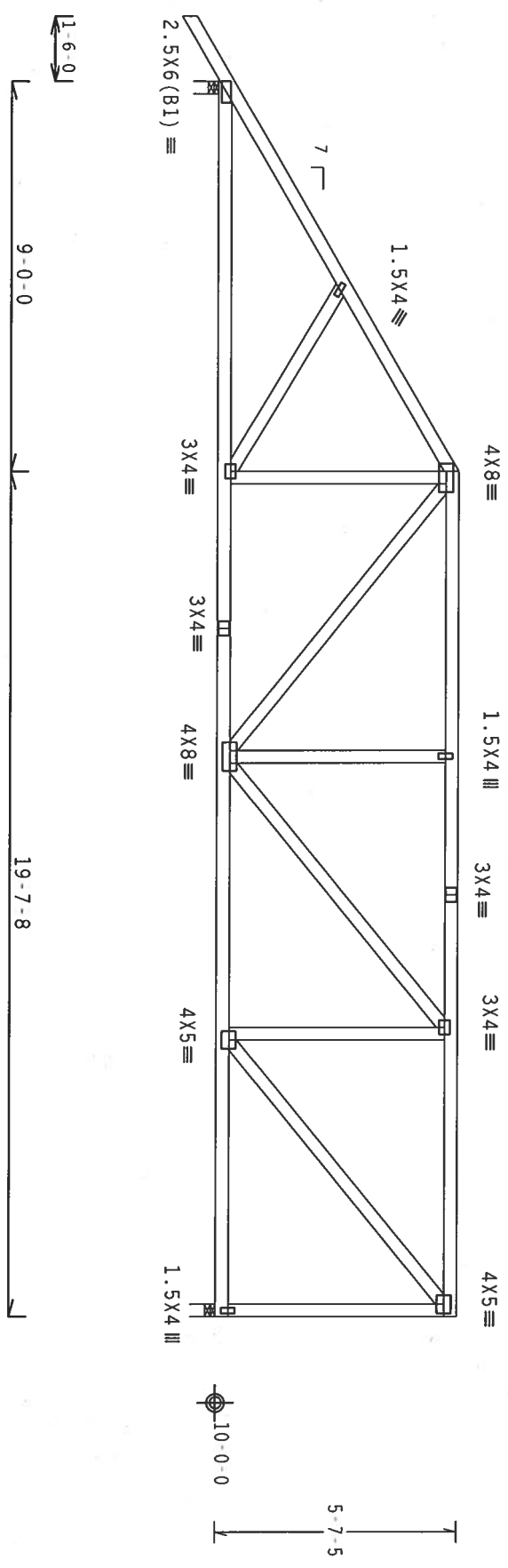
Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

Right end vertical not exposed to wind pressure.

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



28-7-8 Over 2 Supports
R-1301 U=180 W=3.5"
R-1181 U=180 W=3.5"

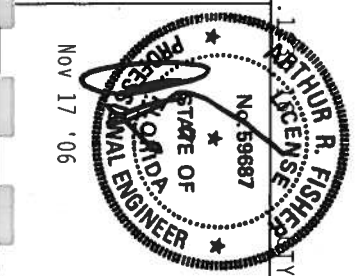
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BOLDED) FOR MORE INFORMATION. BCSI, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND STATE GOOD TRUSS 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 AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/60 (W. K/H, SS) 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 SHOWS THE SIGNATURE OF THE DESIGNER. THE SIGNATURE OF THE DESIGNER SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52632
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321123
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SECN- 137788
DUR.FAC.	1.25	
SPACING	24.0"	UREF- 1TPE487_201

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.

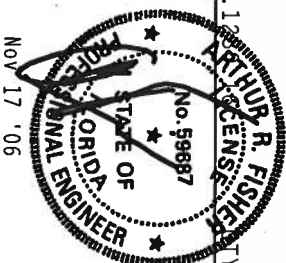

$$Cq/RT=1.00(1.25)/10(0)$$

PROPERTY: 1

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

Scale = .25"/Ft.

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

[illegible]

TC LL	20.0 PSF	REF	R487 - 52633
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06621124
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN -	137791
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2E487_Z01

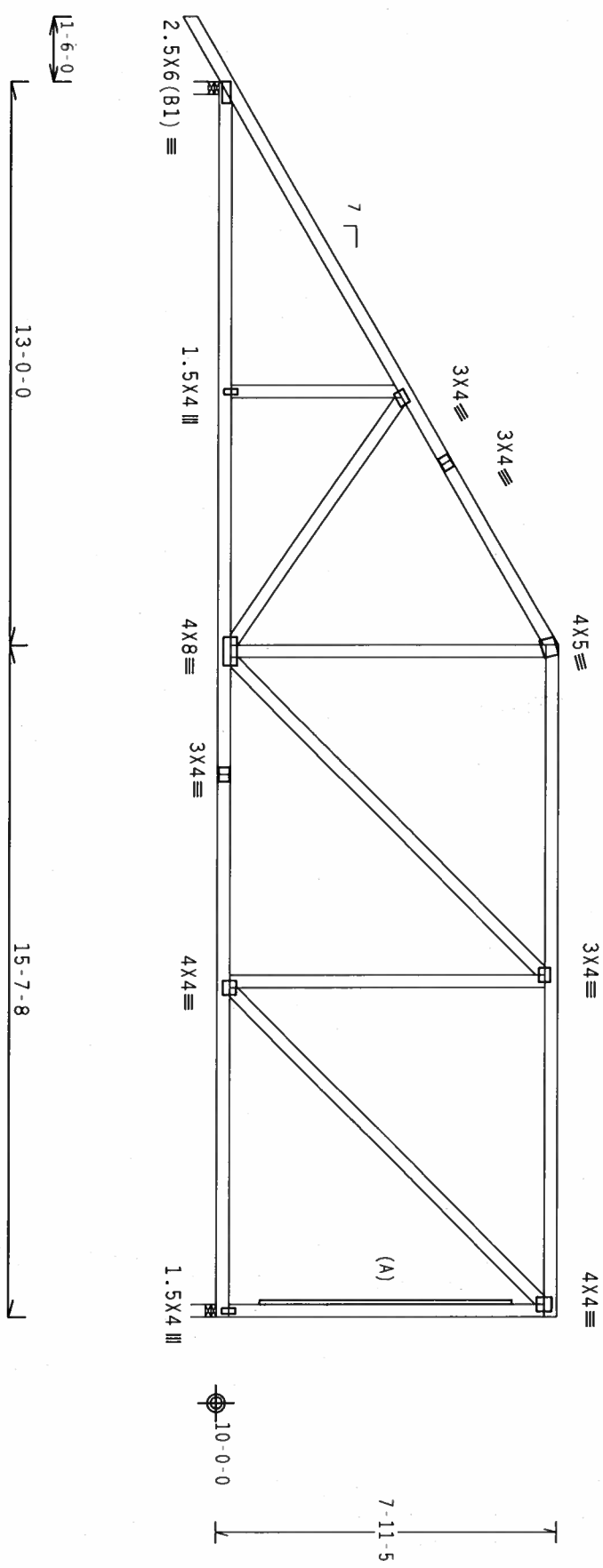
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

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

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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



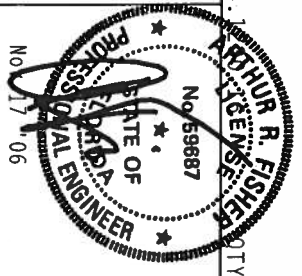
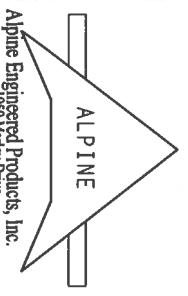
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILT-UP COMPOSITE) TRUSS DESIGN SPECIFICATION, 2002 EDITION, 620 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICK (WOOD TRUSS) TRUSS SPECIFICATION, 2002 EDITION, 1000 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/S) ASTM A653 GRADE 40/50 (W, K/H, 55) 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 AMER AS OF TPI-1, 2002 SEC. 3. A SEAL ON THIS DESIGN SHOWS THE SEALANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SEALANCE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52634
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRM	HCUSR487 06321125
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT. LD.	40.0 PSF	SEQN-	137799
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1TPE487_201

2 COMPLETE TRUSSES REQUIRED

2 COMPLETE TRUSSES REQUIRED

Na111ng Schedule: (12d_Common_(0.148"x3.25"._m1n.)_na11s)
Top Chord: 1 Row @12.00" o c

Bot Chord: I Row @ 8.50" 0.0.c.

Use equal spacing between rows and stagger nails

In each row to avoid splitting.

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

DL=5.0 psf, wind BC DL=5.0 psf

Wind reactions based on MWFRS pressures.

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

SPECIAL LOADS			
-----	(LUMBER	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC -	From	63 PLF at -1.50 to	63 PLF at 28.63
BC -	From	5 PLF at -1.50 to	5 PLF at 0.00
BC -	From	20 PLF at 0.00 to	20 PLF at 28.63
BC -	-37	LB Conc. Load at	0.88
BC -	48	LB Conc. Load at	3.71
BC -	2571	LB Conc. Load at	6.45
BC -	828	LB Conc. Load at	7.25
BC -	752	LB Conc. Load at	10.08
BC -	650	LB Conc. Load at	12.90
BC -	498	LB Conc. Load at	15.73
BC -	241	LB Conc. Load at	18.56
BC -	247	LB Conc. Load at	21.39
BC -	254	LB Conc. Load at	24.22
BC -	38	LB Conc. Load at	27.05

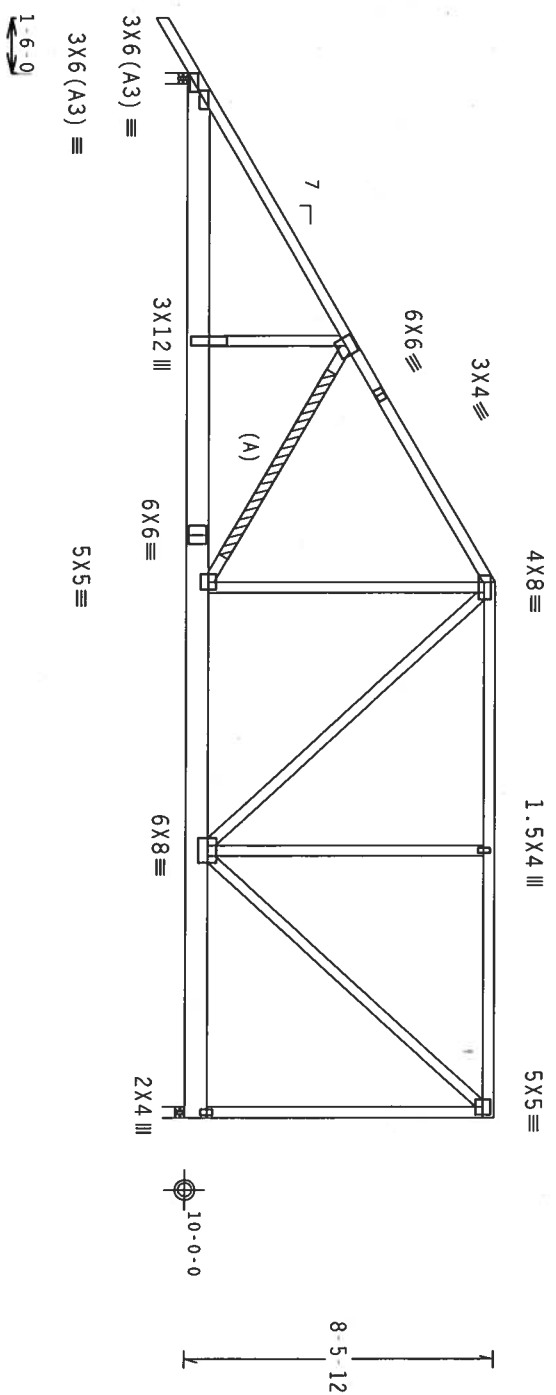


Diagram illustrating the dimensions and support locations for a beam:

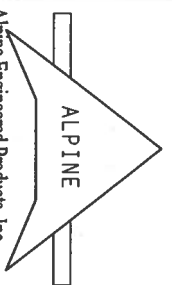
- Overall length: 13-11-0
- Support locations: 14-8-8
- Distance between supports: 28-7-8 Over 2 Supports
- Dimensions: R=5192 U=935 W=3.5" (Left end) and R=3422 U=744 W=3.5" (Right end)

PLT TYP. Wave

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

7.24.1
ARTICLE
CENSE
ITY:1

Scale = .1875"/Ft.



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

****WARNING**** - BUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DRIVING TO DEST. (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI, TRUSS PLATING INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD ROSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

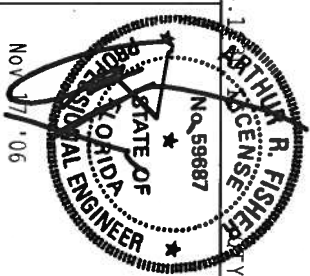
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED

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 CONCERNS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN CODE BY AREA AND TO ASSURE

CONNECTIONS TO BE APPLICABLE PROVISIONS OF MOST NATIONAL DESIGN SPEC., BY ACP/ACI AND IFC. ALTHOUGH CONNECTOR PLATES ARE MADE OF 20/18/16GA (W./H./S./K.) ASTM A563 GRADE 40/60 (W./H./S.) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11.2002 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.

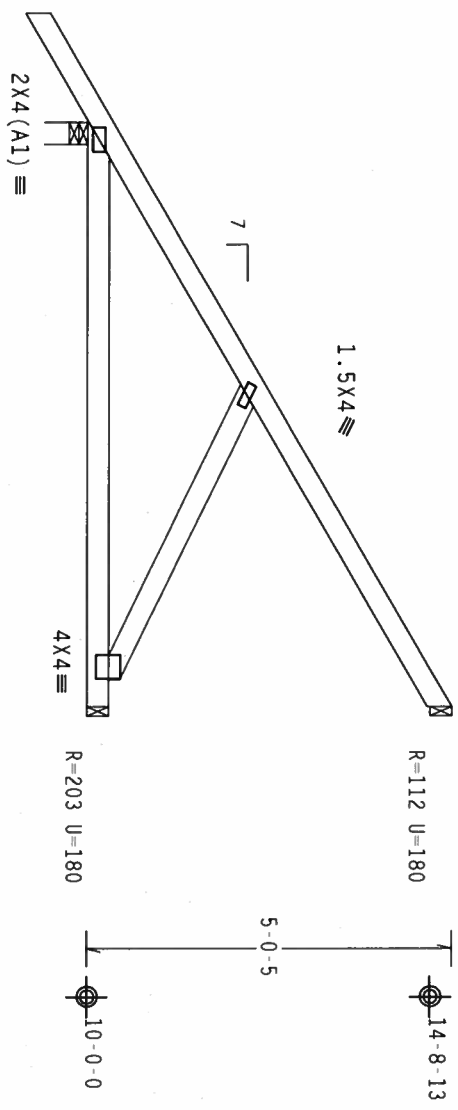


TC LL	20.0 PSF	REF	R487-- 52635
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321126
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137999
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

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

Wind reactions based on MWFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
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.



8'-0-0 Over 3 Supports
R=452 U=180 W=3.5"

PLT TYP. Wave

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

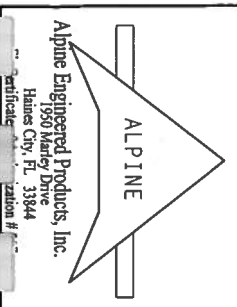
7.24.13

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

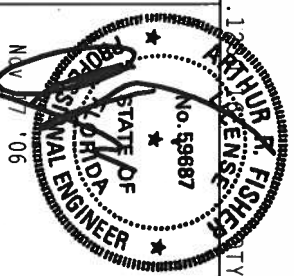
Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NO TRUSS SHALL BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS DESIGNED. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSS. THE TRUSS IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS DESIGNED. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSS. THE TRUSS IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS DESIGNED. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE TRUSS.

****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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-2002. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) ASTM A653 GRADE 40/50 (W, K/H, SS) 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 AMEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI-1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certification # 1111



TC LL	20.0 PSF	REF	R487--	52636
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCUSR487	06321062
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT. LD.	40.0 PSF	SEGN-	137089	
DUR. FAC.	1.25			
SPACING	24.0"	JREF-	1T2F487	_Z01

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

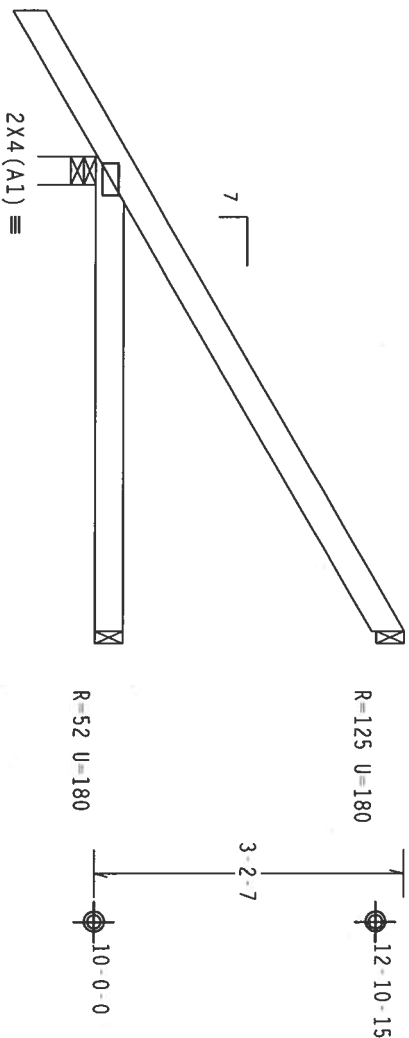
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.



4-10-8 Over 3 Supports
R=330 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24

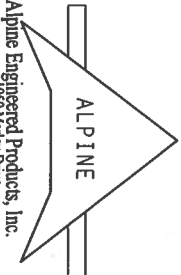
TY:1

FL/-/4/-/R/-

Scale =.5"/ft.

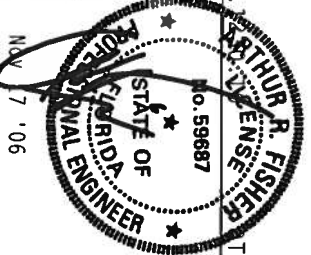
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH 10TH STREET, SUITE 100, MINNEAPOLIS, MN 55401) FOR TRUSS CONSTRUCTION DETAILS. 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMANCE OF THESE ACTIVITIES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/X) ASTM A653 GRADE 40/60 (W. K/H-.35) 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-1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

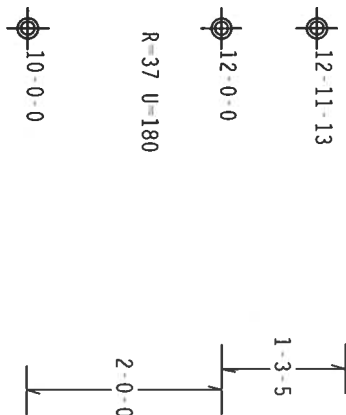
License # 12408
Professional Engineer



TC LL	20.0 PSF	REF R487-- 52637
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321041
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137060
DUR.FAC.	1.25	
SPACING	24.0"	
		JBFF- 1TPEA87_201

110 mph wind, 15.00 ft mean hgt, ASE 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.



4-3-8
5-0-0 Over 3 Supports
0-8-8
R=335 U=180 M=3.5"

Scale = .5" / Ft.

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 #2 Dense :W2 2x4 SP #3:

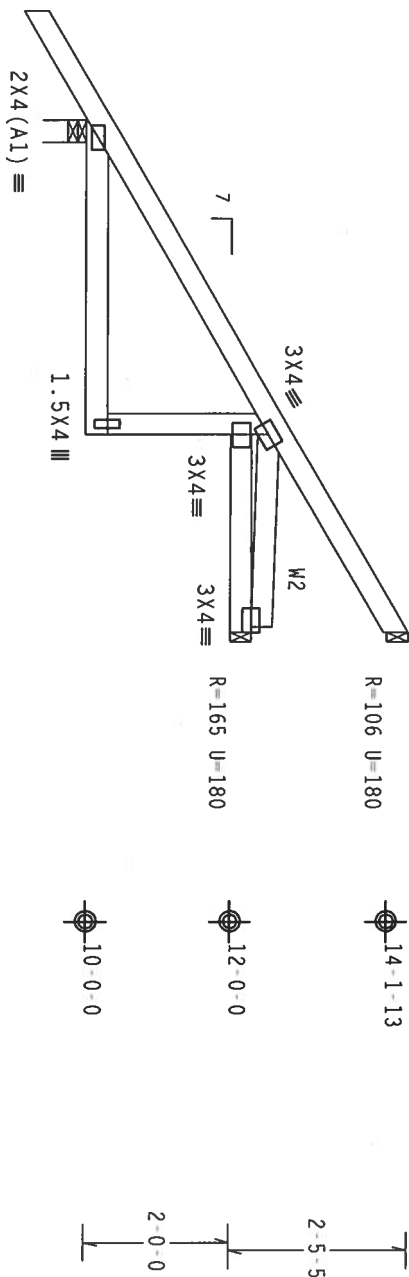
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

4-3-8
2-8-8
7-0-0 Over 3 Supports
R=412 U=180 W=3.5"

PLT TYP. Wave

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

7.24.1

QTY:1

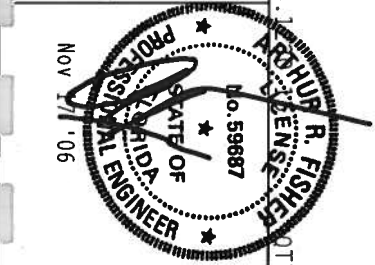
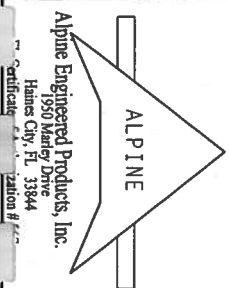
FL/-/4/-/R/-

Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REAR BRACE BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS ERECTION. 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 AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/5) ASTM A653 GRADE 40/60 (W. K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

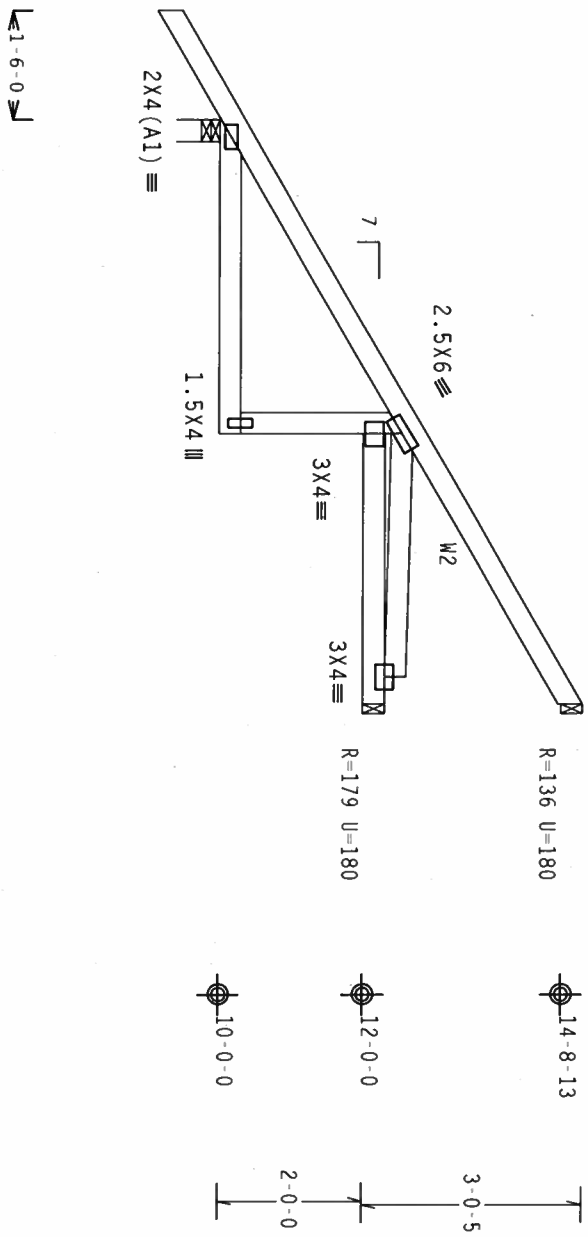
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA 43 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOULD THE USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52639
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321057
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SECN-	136913
DUR.FAC.	1.25		
SPACING	24.0"	DRFF-	1TPE487_201

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 Dense :W2 2x4 SP #3:
Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"); toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"); toe nailed at Bot chord.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.24.12

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS ASSOCIATION OF AMERICA, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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 CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SSVS) ASTM A653 GRADE 40/60 (W. R/H/SS) GALV. STEEL. APPLY PLATES SPECIFICALLY AS SHOWN ON THIS DESIGN. POSITION PER DRAWINGS 160A.2.

ALPINE ENGINEERED PRODUCTS, INC.
1950 Manly Drive
Haines City, FL 33844
Certificate of Registration # 11111

Nov 1 '06

STATE OF FLORIDA
N.E. 59687
ARTHUR R. FISHER
LICENSED PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF. R487-- 52640
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321053
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 136909
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_201

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 795 LB Conc. Load at 1.94, 3.94, 5.94

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

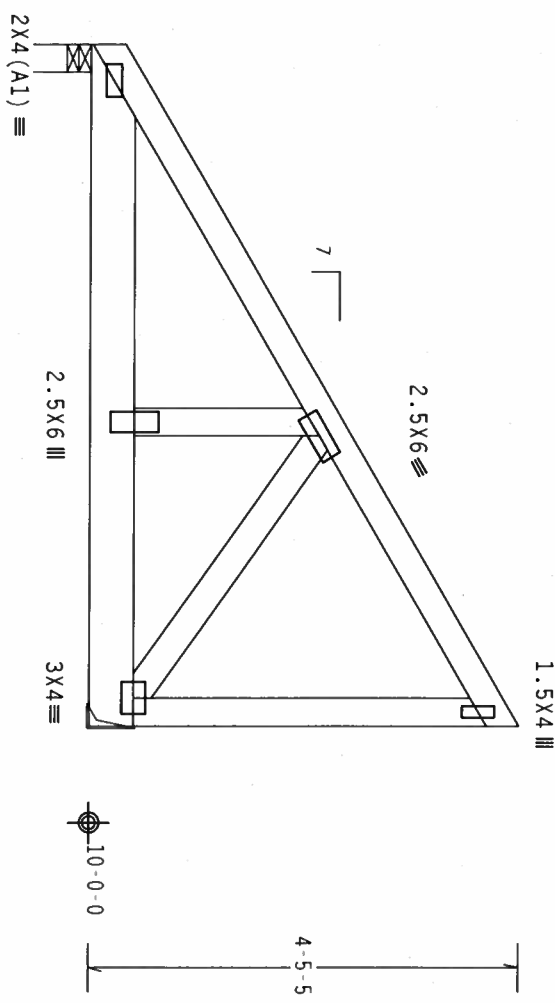
2 COMPLETE TRUSSES REQUIRED

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

Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 5.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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.



R=1362 U=180 W=3.5"
R=1604 U=180

PLT TYP. Wave

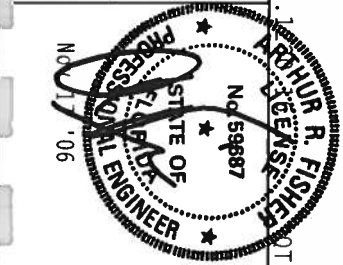
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REPAIRS TO ANY COMPONENTS MUST BE APPROVED BY THE TRUSS MANUFACTURER. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE TRUSS.

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) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI-2002(STD). 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) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI-2002(STD).



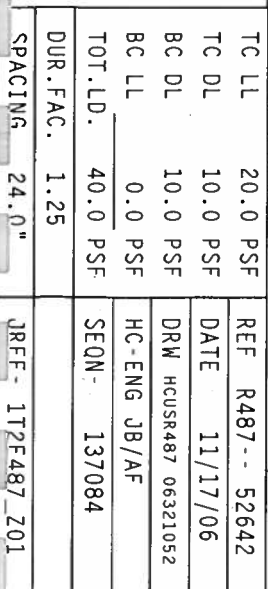
Alpine Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Phone: 888-244-2444
Fax: 888-244-2444
Website: www.alpineeng.com



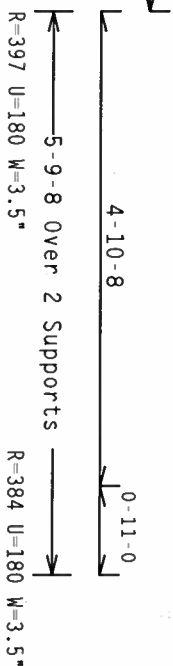
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TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321091
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 17522
DUR.FAC.	1.25	
SPACING	24.0"	

Scale = .5"/ft.
JREF- 17PE487_201

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

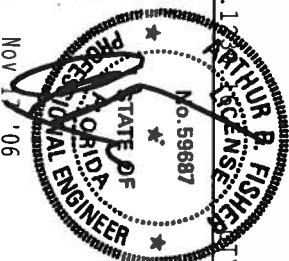


#1 hip supports 4-10-8 jacks with no webs.



Scale = .5"/Ft.

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.



TC LL	20.0 PSF	REF	R487-- 52643
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321105
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137069
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2E487_201

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

Wind reactions based on MMFRS pressures.

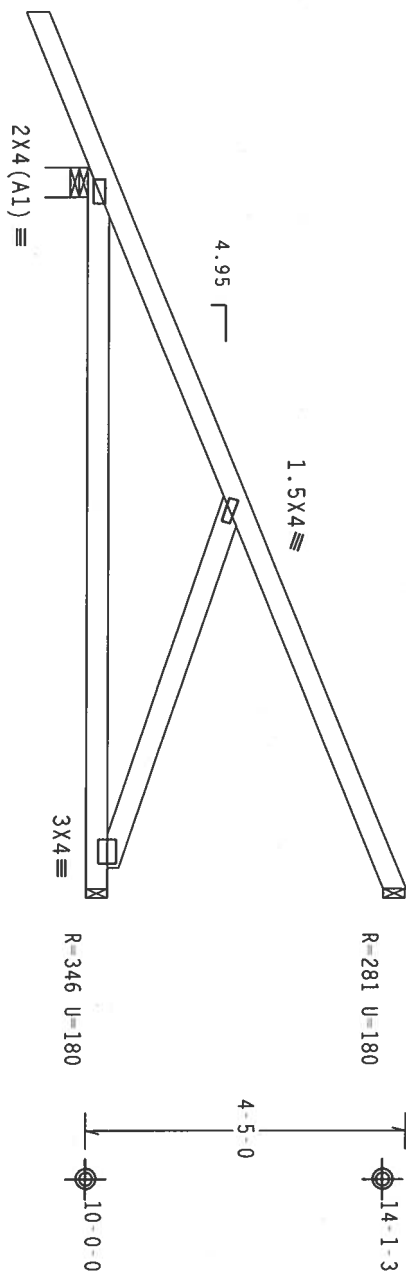
Hipjack supports 7'-0" setback jacks with no webs.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



← 2'-1'-7" →

9'-10'-13 Over 3 Supports
R=466 U=180 W=4.95"

PLT TYP. Wave

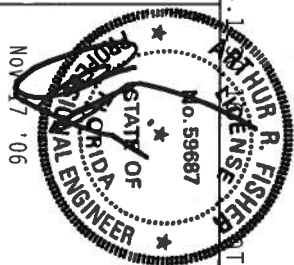
Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH EAST STREET, SUITE 100, MOHAWK, NY 12543 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-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H,SS) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND NOT THE WHOLE BUILDING. NO USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TP1 SEC. 2.



QTY: 1 FL/-/4/-/1-/R/-

Scale = .375"/ft.

TC LL	20.0 PSF	REF	R487-- 52644
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321039
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	17471
DUR. FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1T2F487_201

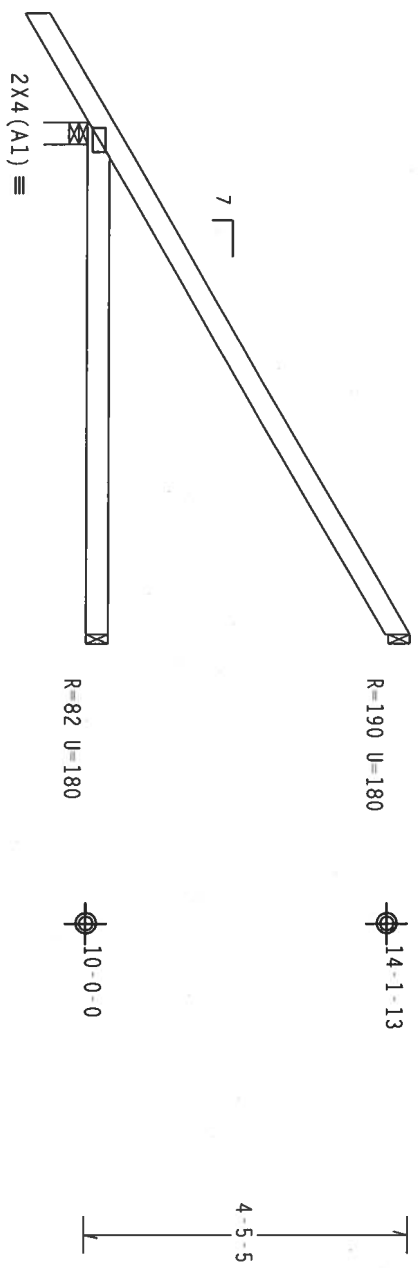
ALPINE

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

Professional Engineer License # 59887

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



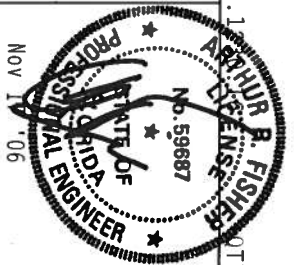
1'-6-0

7'-0-0 Over 3 Supports
R=412 U=180 W=3.5"

PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12
Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. READING THESE INSTRUCTIONS CAREFULLY IS THE RESPONSIBILITY OF THE USER. NORTH AUSTIN, TEXAS 78701. 6300 ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS, SEE THE OTHERS INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/2) ASTM A653 GRADE 40/60 (W, K/M, SS) 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. SHOW THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52645
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321045
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17450
DUR.FAC.	1.25	
SPACING	24.0"	JBFE- 1TPE487_201

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

Wind reactions based on MMFRS pressures.

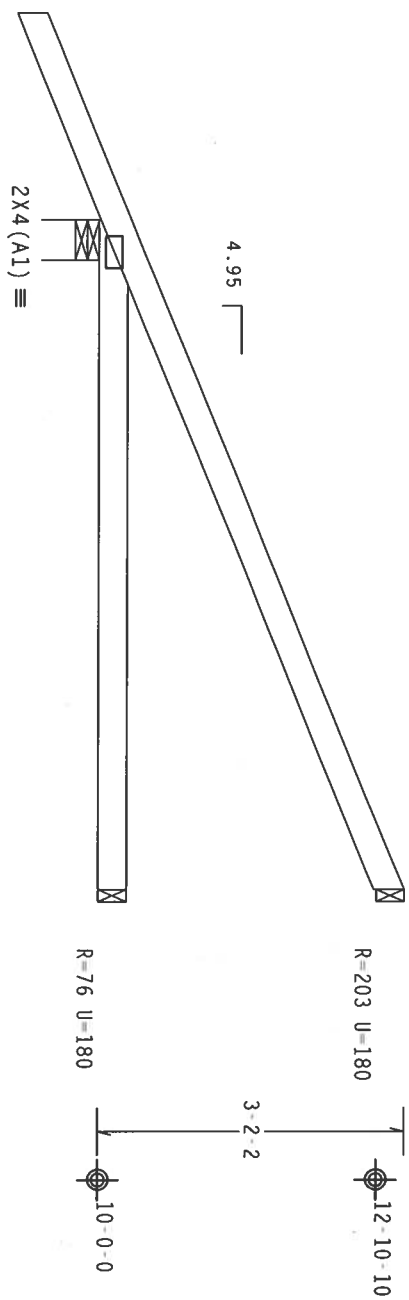
Hipjack supports 4'-10" setback jacks with no webs.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

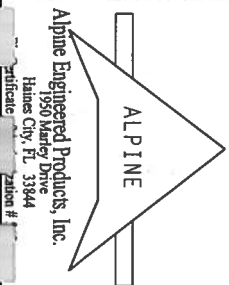
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY: 1 FL/-/4/-/-/R/-

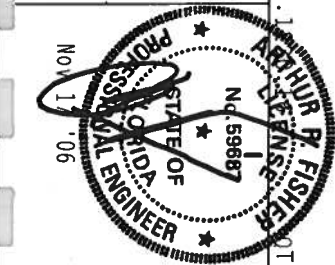
Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BEARING CAPACITY (BULGING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/X) ASTM A653 GRADE 40/60 (W. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certificate # 120106



TC LL	20.0 PSF	REF R487-- 52646
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321040
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN- 17492
DUR. FAC.	1.25	
SPACING	24.0"	

JREF- 1T2F487_Z01

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

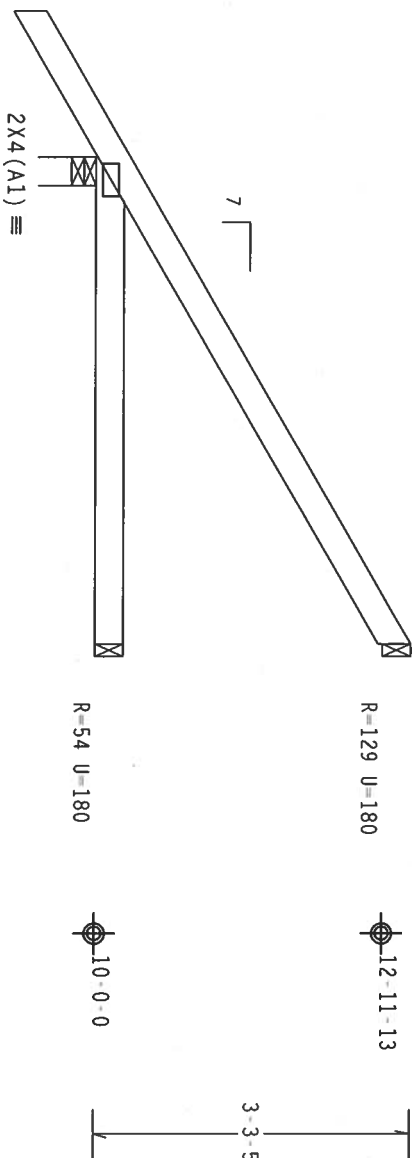
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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=335 U=180 W=3.5*

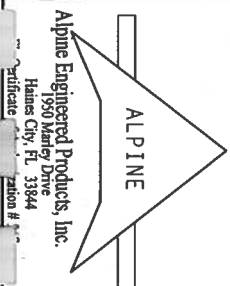
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

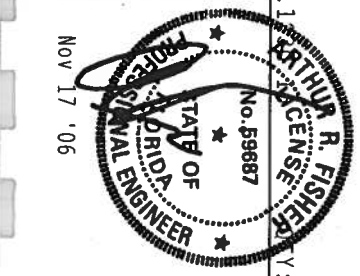
Cq/RT=1.00(1.25/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRECAUTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/X) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. 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 Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate



TC LL	20.0 PSF	REF R487-- 52647
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321012
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 17458
DUR.FAC.	1.25	
SPACING	24.0"	

Scale =.5"/ft.

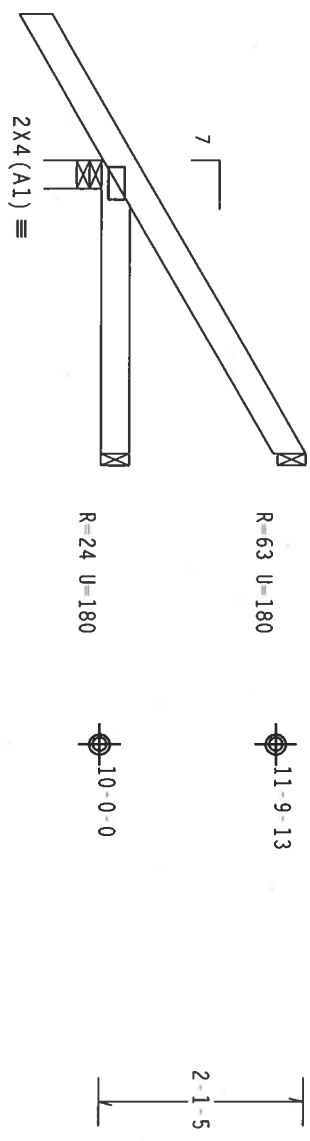
DRFF-1T2F487-201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



3'-0'-0" Over 3 Supports
R=265 U=180 W=3.5"

PLT TYP. Wave

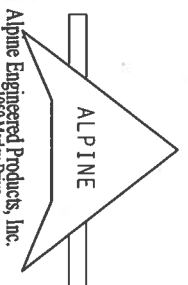
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.24.13

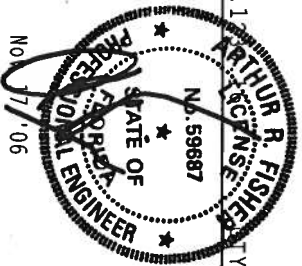
Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE BUILDING COMPONENTS SKETCH (FROM 22314), AND WITH GOOD TRUSS CONNECT OF AMERICA, 6206 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, 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-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-2002 (STD). ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/50 (W, K/H, SS) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THIS SEAL IS NOT A SEAL OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TP1 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate # 1777



TC LL	20.0 PSF	REF R487-- 52648
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321023
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 17461
DUR.FAC.	1.25	
SPACING	24.0"	URFF- 1T2E487_201

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

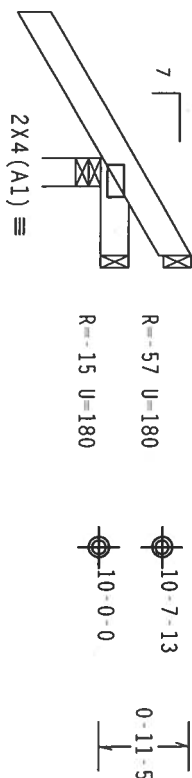
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



1-6-0

1-0-0 Over 3 Supports

R=257 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

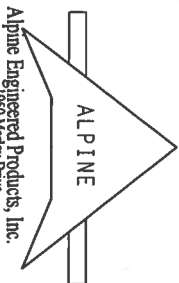
FL/-4/-/R/-

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE TRUSS. THE USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

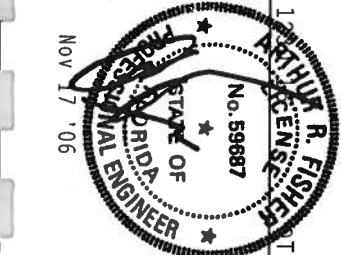
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (W. K/M/SS) 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 AMES A3 OF TPI-2002 SEC.3. A SEAL ON THIS TRUSS INDICATES THE SUITABILITY OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

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



TC LL	20.0 PSF	REF	R487--	52649
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCUSR487	06321119
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SECN-	17466	
DUR.FAC.	1.25			
SPACING	24.0"			
JRFF-	172E487_201			

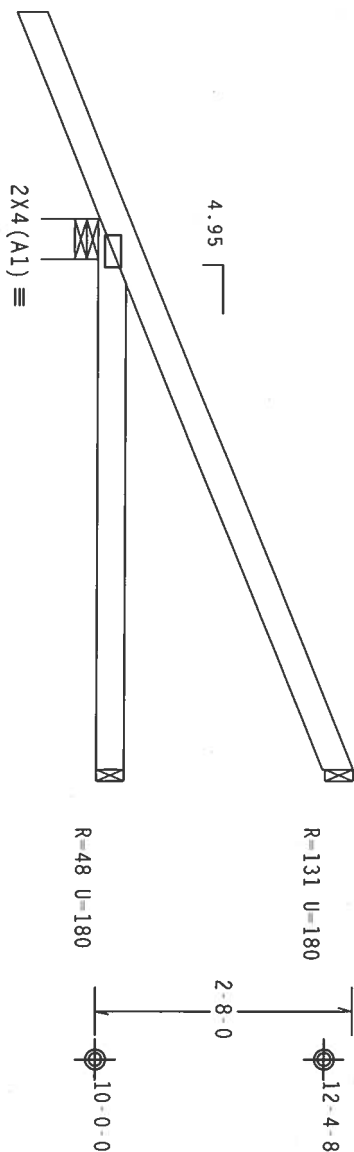
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Hipjack supports 4-0-0 setback jacks with no webs.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

@ 24" OC, BC @ 24" OC.

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



2-1-7

5-7-14 Over 3 Supports —————
R=222 U=180 W=4.95"

Design Crit: TPI-2002(STD)/FBC

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

7.24

ARTHUR R. FISHER
L. GENSE

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

Scale = .5" / Ft.

*****WARNING*****
 THESE REQUIRE EXPERTISE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND PROTECTING
 REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRUSS PAPER INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD ROSS COUNCIL OF AMERICA, 6500
 ENTERPRISE LANE, MOHAWK, VA, 53179) 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.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI CROSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING SHIPPING, INSTALLING & BRACING CONNECTOR PLATES ARE MADE OF 2017B15634 (U.S. 6061-T6) ALUM. 6061-T6 GRADE 40000 PSI YIELD STRENGTH

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY

Alpine Engineered Products, Inc.
1060 Madison Drive

1950 Marney Drive
Haines City, FL 33844
Certificate of Registration # 667

STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOV 1 2006

90. ~~17~~ Nov

TC LL	20.0 PSF	REF	R487-- 52650
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321116
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	17495
DUR.FAC.	1.25		
SPACING	24.0"	JBFF-	1T2F487_201

JRFF- 1T2F487_Z01

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

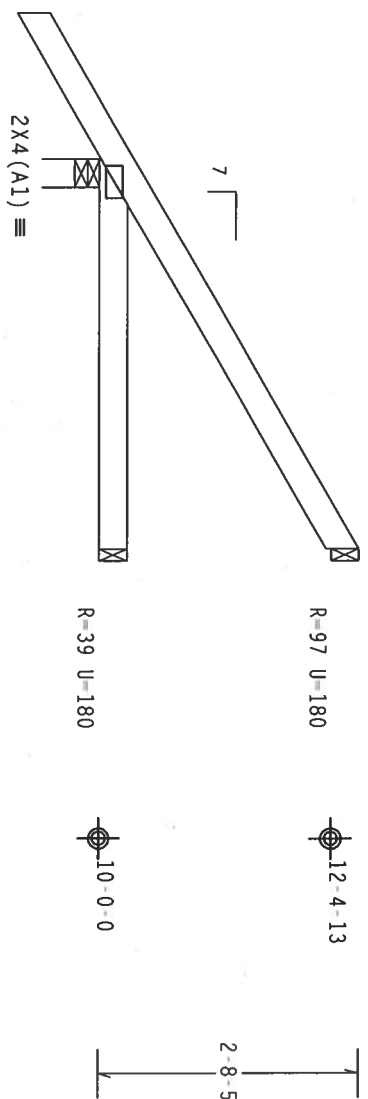
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

4-0-0 Over 3 Supports
R=298 U=180 W=3.5"

PLT TYP. Wave

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

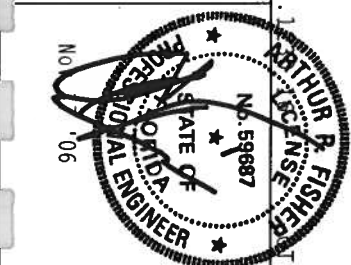
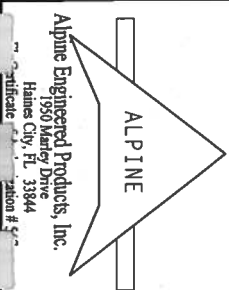
7.24.1

FL/-/4/-/R/-

Scale = .5"/ft.

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE. TRUSSES MUST BE STORED ON A FLAT SURFACE AND NOT ON EDGES. TRUSSES MUST BE PROTECTED FROM WEATHER AND MOISTURE. TRUSSES MUST BE PROTECTED FROM PESTS AND VERMIN. TRUSSES MUST BE PROTECTED FROM FIRE. TRUSSES MUST BE PROTECTED FROM COLLAPSE. TRUSSES MUST BE PROTECTED FROM OVERLOADING. TRUSSES MUST BE PROTECTED FROM IMPROPER USE. TRUSSES MUST BE PROTECTED FROM IMPROPER MAINTENANCE. TRUSSES MUST BE PROTECTED FROM IMPROPER REPAIRS. TRUSSES MUST BE PROTECTED FROM IMPROPER MODIFICATIONS. TRUSSES MUST BE PROTECTED FROM IMPROPER ALTERATIONS. TRUSSES MUST BE PROTECTED FROM IMPROPER REMOVALS. TRUSSES MUST BE PROTECTED FROM IMPROPER DISPOSAL. TRUSSES MUST BE PROTECTED FROM IMPROPER RECYCLING. TRUSSES MUST BE PROTECTED FROM IMPROPER REUSE. TRUSSES MUST BE PROTECTED FROM IMPROPER REPAIRS. TRUSSES MUST BE PROTECTED FROM IMPROPER MODIFICATIONS. TRUSSES MUST BE PROTECTED FROM IMPROPER ALTERATIONS. TRUSSES MUST BE PROTECTED FROM IMPROPER REMOVALS. TRUSSES MUST BE PROTECTED FROM IMPROPER DISPOSAL. TRUSSES MUST BE PROTECTED FROM IMPROPER RECYCLING. TRUSSES MUST BE PROTECTED FROM IMPROPER REUSE.

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/ASD) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/5) ASTM A653 GRADE 40/60 (W, K/H, 55) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGNATION. THE SEAL INDICATES THE SOCIETY'S ACCEPTANCE OF THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



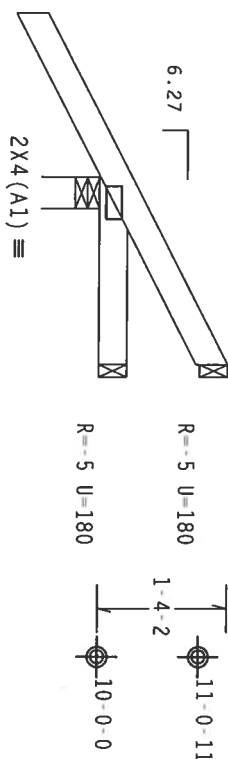
TC LL	20.0 PSF	REF R487-- 52651
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321120
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 17498
DUR.FAC.	1.25	
SPACING	24.0"	UREF- 1T2F487_201

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.



1-8-2

1.11.1 Over 3 Supports

 $R=93 \quad U=180 \quad W=3.908$

PLT TYP. Wave

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

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

7.24.1

QTY:1 FL/-/4/-/-/R/-

Scale = .5" / Ft.

WARNING
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (FRUSS PAPER INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD ROSS COUNCIL OF AMERICA, 6500
 ENTERPRISE LANE, MANASSAS, VA 20109) 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.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN.

PROFESSIONAL ENGINEER, NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI.

CONNECTION PLATE MADE OF 20/18/16GA (N, H, SS, K) ASTM A563 GRADE 40/60 (N, K, H, SS) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. INSPECTION OF PLATES FOLLOWED BY VIS. CHECK OF DEFLECTIONS AND STRESSING.

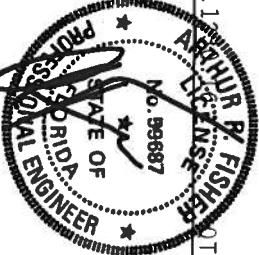
AND INSPECTION OF PLANTS FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.
10601-4th Drive

PI Certificate of Authorization # 5437



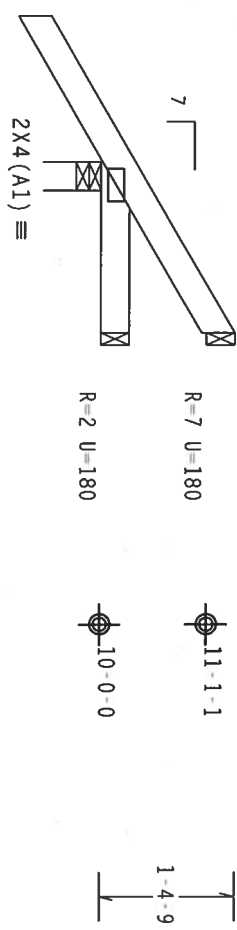
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BC DL	10.0 PSF	DRW	HCUSR487 06321087
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137054
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_Z01

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



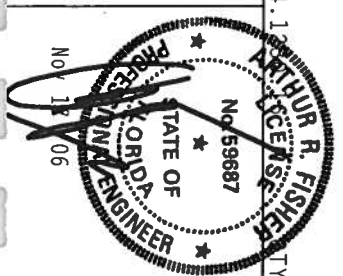
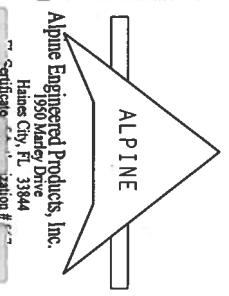
1-6-0 →
1-9-0 Over 3 Supports
R=238 U=180 W=3.5"

PLT TYP. Wave

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENTS) FOR INFORMATION ON THE PROPER INSTALLATION OF TRUSSES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH A PROUD TRUSS CONNECTION, 6500 ENTERPRISE LANE, 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 COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/1604 (W/H/S/S) ASTM A653 GRADE 40/50 (W, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. ANY DEVIATION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS 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.



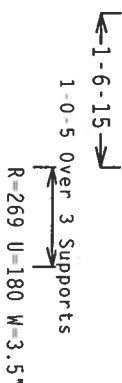
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TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321088
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 137045
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_201

Scale =.5"/ft.

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.

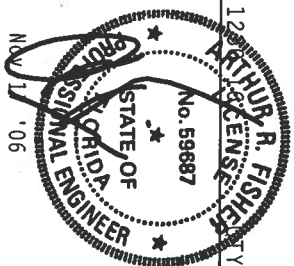


Scale = .5" / Ft.

THE SUITABILITY AND USE OF THIS COMPONENT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.



1950 MALEY DRIVE
HAINES CITY, FL 33844
Certification #



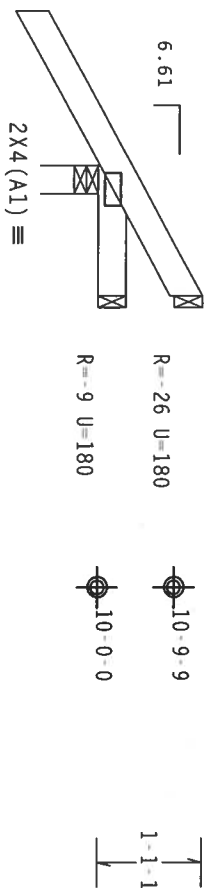
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BC DL	10.0 PSF	DRW	HCUS6487 06321089
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137051
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
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.



1-6-15

1-4-0 Over 3 Supports

R-252 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

FL/-/4/-/R/-

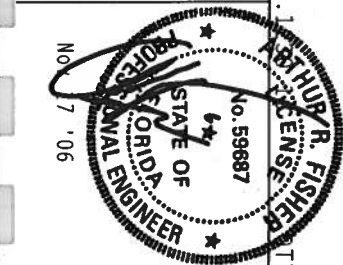
Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH 11TH STREET, SUITE 212, MINNEAPOLIS, MN 55401) OR TPI (TRUSS PLATE INSTITUTE, 6500 ENTERPRISE LANE, HINDSON, AL 37119) FOR SAFETY PRECAUTIONS. TRUSSES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate: 24808



TC LL	20.0 PSF	REF R487-- 52655
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321090
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137049
DUR.FAC.	1.25	
SPACING	24.0"	

JBEE-1TPE487_201

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

Wind reactions based on MMFRS pressures.

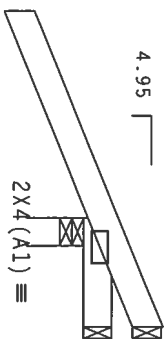
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.

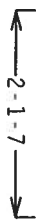
$$\frac{0.45}{1}$$



$$R = 97 \text{ U-180}$$
$$R = 37 \text{ U-180}$$

$$10-6-1$$
$$10-0-0$$

$$0-9-13$$



$$R = 365 \text{ U-180 W=3.45"}$$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

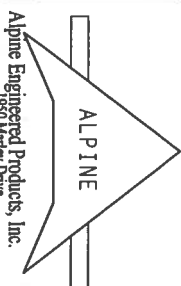
FL/-/4/-/R/-

Scale = .5"/ft.

****WARNINGS**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENTS) INFORMATION, 2000 EDITION, 1000 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, 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.

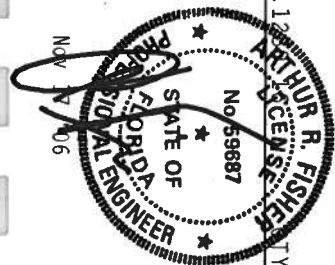
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI-2002. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H/SS) 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 AMES AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOW THE ELEVATION OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TP1 1 SEC. 2.



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

Certificate of Designation #



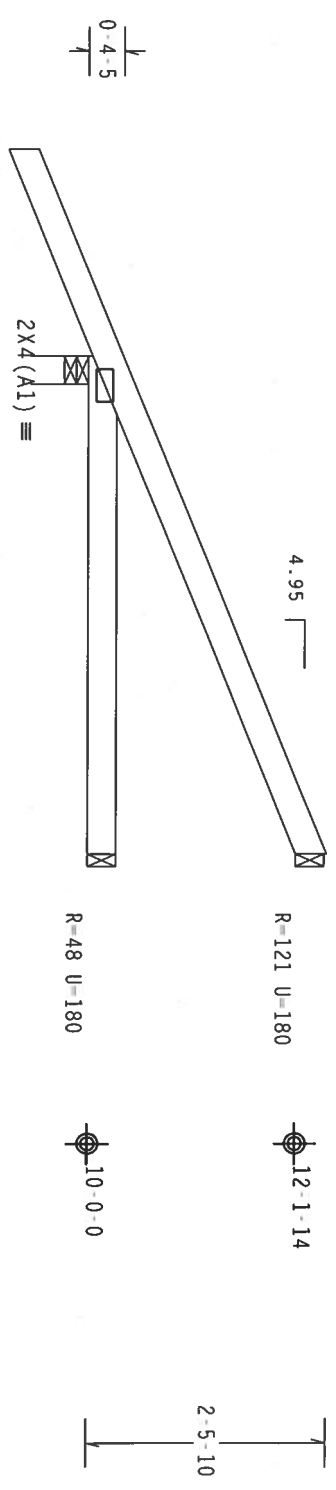
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TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321006
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 137733
DUR.FAC.	1.25	
SPACING	24.0"	DRFF- 1TPE487_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

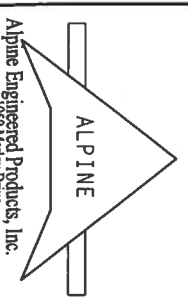
7.24.12

FL/-4/-/-R/-

Scale =.5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. READING AND FOLLOWING THE INSTRUCTIONS AND INFORMATION. PUBLISHED BY TPI, (TRUSS LATE INSTITUTE, 218 NORTH LEE STREET, SUITE 112, WILKES BARRE, PA 18201) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/AS) ASTM A653 GRADE 40/60 (W. X/H/.55) 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 AMEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. THE USER'S LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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

Professional Engineer
No. 59687
STATE OF FLORIDA
17 '06

TC LL	20.0 PSF	REF	R487--	52657
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCSR487	06321005
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SECN-	137738	
DUR.FAC.	1.25			
SPACING	24.0"			
		JBFF- 1TPE487_201		

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #5
Webs 2x4 SP #3

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

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

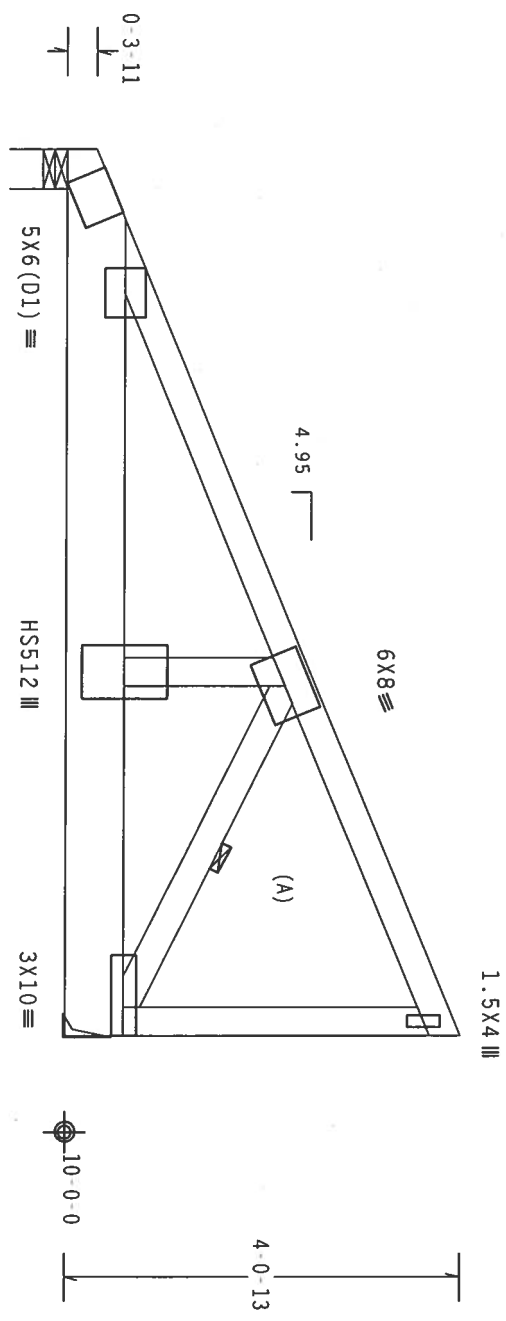
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.

SPECIAL LOADS

-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 9.12
BC - From 80 PLF at 0.00 to 80 PLF at 0.85
PLB - From 20 PLF at 0.85 to 20 PLF at 9.12
PLB - 1201 LB Conc. Load at (1.81,10.04), (3.81,10.04), (5.81,10.04)
PLB - 859 LB Conc. Load at (7.81,10.04)

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace
TC @ 24" OC, BC @ 24" OC.



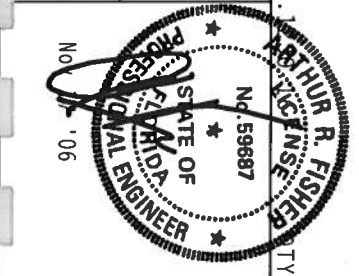
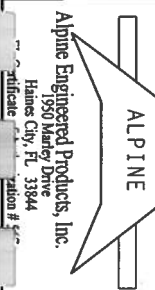
9-1-7 Over 2 Supports
R=2686 U=233 W=4.95"
R=2572 U=232

PLT TYP. 20 Gauge HS, Wave

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST BUILDING COMPONENT SAFETY INFORMATION, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND VICE GOOD TRUSS COMPANY, 6205 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W. R/H. SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. MAXIMUM SPACING OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR THIS DRAWING INDICATES THE SUITABILITY OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



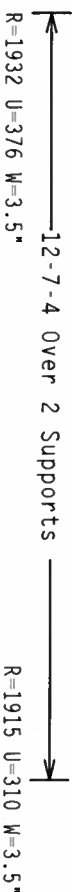
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TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321135
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137983
DUR.FAC.	1.25	
SPACING	24.0"	

Scale = .5"/ft.	DRFF- 1T2F487_201
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SPECIAL LOADS

Wind reactions based on MWFRS pressures.

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



2 COMPLETE TRUSSES REQUIRED

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

Top Chord:	1 Row	@12.00	0.00
Bot Chord:	1 Row	@8.25	0.00

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.

Right end vertical not exposed to wind pressure.

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

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

Scale = .3125"/ft.

WARNING THESE REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO AC308 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (STRESS PANEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WOOD WOOD TRUSS COUNCIL OF AMERICA, 63000 ROCKY HILL DRIVE, MARIETTA, GA 30067) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR 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

TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z AND INSPECTION OF PLATES FOLLOWING BY 441 SHALL BE A MINIMUM OF 2000 CFS.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Professional Engineer Seal for Arthur R. Fishbein, State of Florida, No. 58687, dated Nov 17 '06.

TC LL	20.0 PSF	REF	R487 - - 52659
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321074
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137742
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2F487_201

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 528 LB Conc. Load at 0.52
BC - 816 LB Conc. Load at 2.52, 4.52, 6.52

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

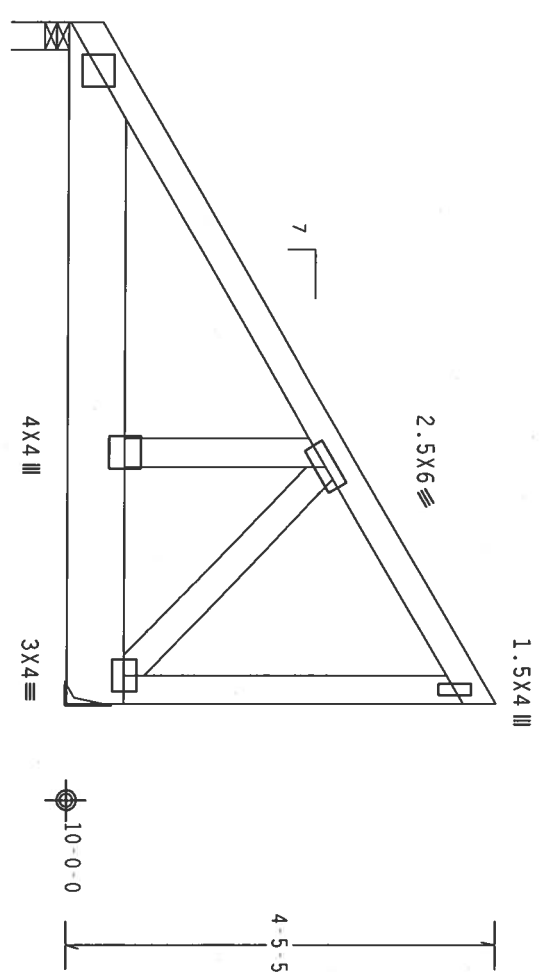
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



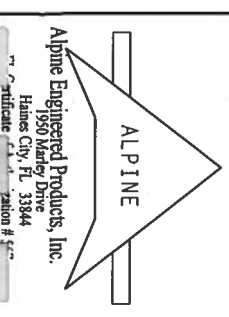
7'-0-0 Over 2 Supports
R=1681 U=180 W=3.5"
R=1876 U=180

PLT TYP. Wave

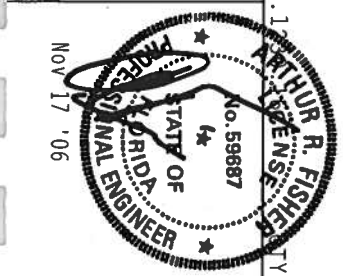
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS ASSOCIATION OF AMERICA, 6500 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND VICA (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, 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 COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W. R/H/SS) GALV. STEEL. APPLY GALV. PROTECTION TO ALL EXPOSED SURFACES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF THIS DESIGN SHALL BE PER ANEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEER RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



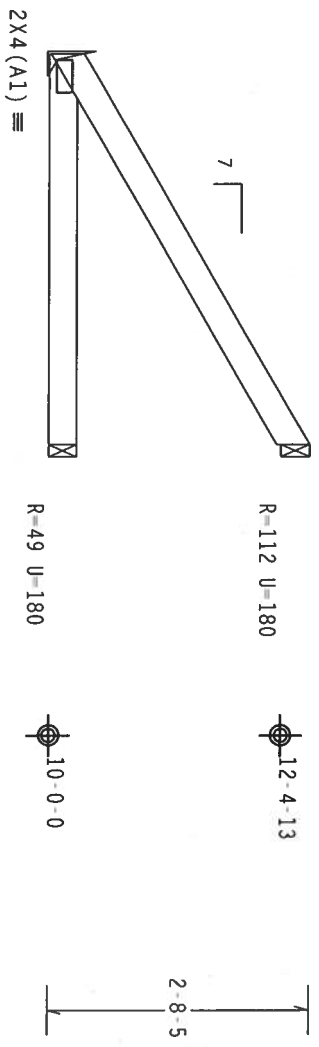
Alpine Engineered Products, Inc.
1950 Mandy Drive
Haines City, FL 33844



TC LL	20.0 PSF	REF R487-- 52660
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321066
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137673
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_201

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
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.



4'-0-0 Over 3 Supports
R=172 U-180

PLT TYP. Wave

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

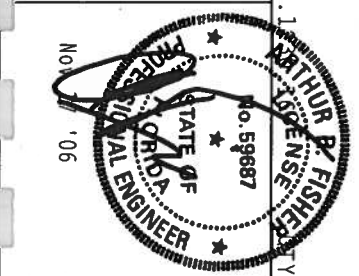
7.24.1

FL/-/4/-/R/-

Scale =.5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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 ACPA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER 43 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE TRUSS HAS BEEN INSPECTED BY A PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52661
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321121
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 17501
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2E487_201

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
BC - 868 LB Conc. Load at 1.40, 3.40, 5.40

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

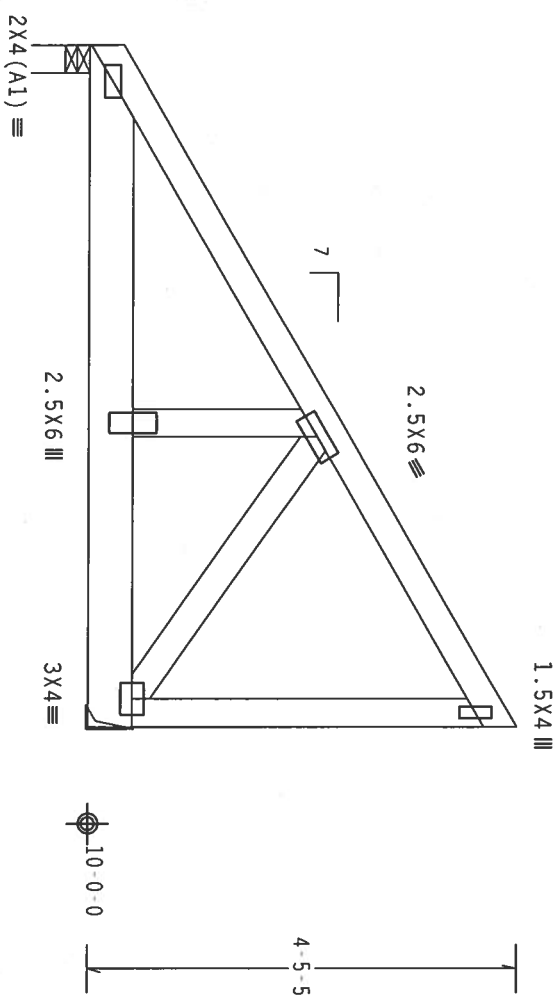
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 5.00" o.c.
Webs : 1 Row @ 4" o.c.

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

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



R=1666 U-180 W=3.5"
R=1519 U-180

PLT TYP. Wave

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

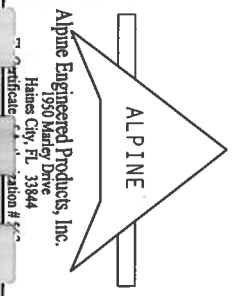


FL/-4/-1/-R/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I (BUILDING CODES INSTITUTE) "WOOD TRUSS MANUFACTURING AND INSTALLATION" 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND VARIOUS WOOD TRUSS FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H, SS) 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 AMEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHOWS ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN. NO OTHER USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AM3/TPI 1 SEC. 2.



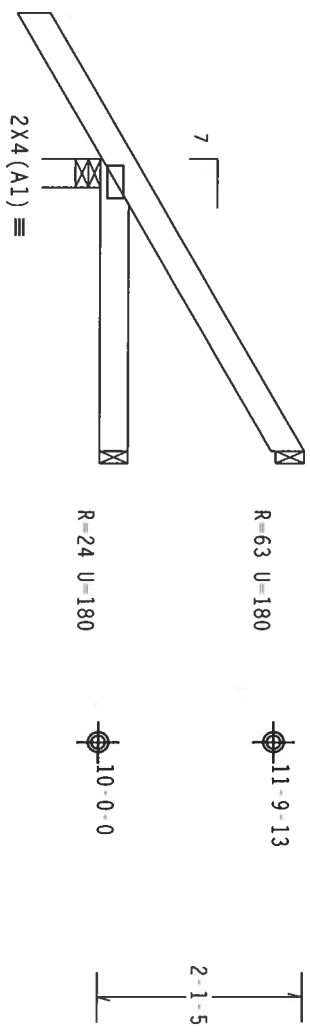
TC LL	20.0 PSF	REF R487-- 52662
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321051
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137753
DUR.FAC.	1.25	
SPACING	24.0"	URFF- 1T2F487_Z01

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



←1-6-0→

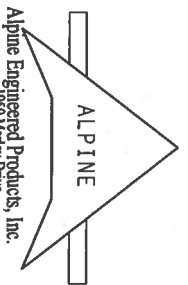
3'-0-0 Over 3 Supports
R=265 U=180 W=3.5"

PLT TYP. Wave

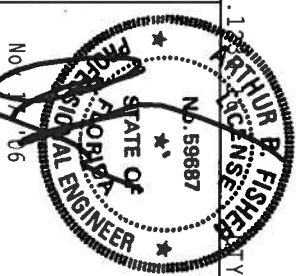
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO THE FOLLOWING: 1. (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 2. 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 CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. K/M/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE SUBMITTAL OF THIS DESIGN FOR THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Manley Drive
Haines City, FL 33844
Certificate of Designation # 111



TC LL	20.0 PSF	REF R487-- 52664
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321085
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137772
DUR.FAC.	1.25	
SPACING	24.0"	

Scale = .5"/ft.

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

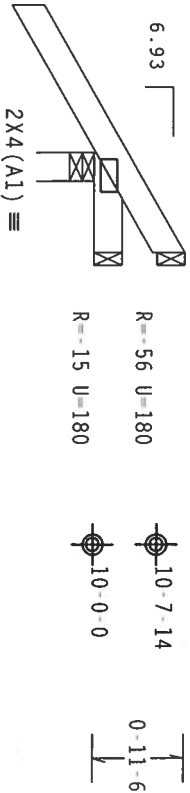
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.



1-6-3-
1-0-4 Over 3 Supports
R=258 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

FL/-/4/-/R/-

Scale = 5"/ft.

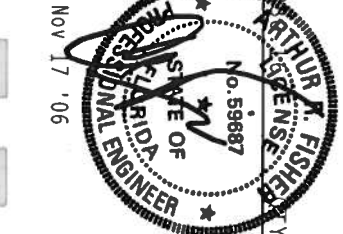
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. READING AND UNDERSTANDING THE INFORMATION ON THIS SHEET IS THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) ASTM A653 GRADE 40/60 (W. K/H, 35) 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. SILENT FOR THE TRUSS COMPONENT DESIGNER. THE USER SHALL BE RESPONSIBLE FOR THE PROPER 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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) ASTM A653 GRADE 40/60 (W. K/H, 35) 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. SILENT FOR THE TRUSS COMPONENT DESIGNER. THE USER SHALL BE RESPONSIBLE FOR THE PROPER 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 Money Drive
Haines City, FL 33844

License #



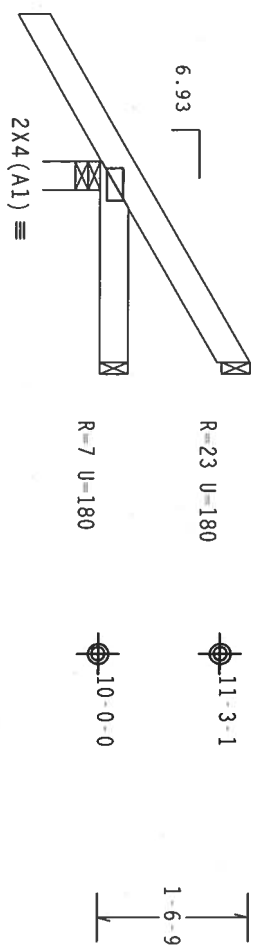
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TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321079
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 137762
DUR.FAC.	1.25	
SPACING	24.0"	JBFF- 1TPEA87_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
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.



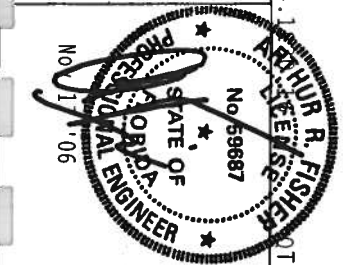
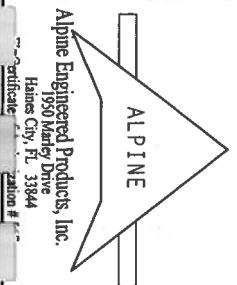
1-6-3-
2-0 11 Over 3 Supports
R=243 U-180 W-3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) FOR TPI-2002(2002) AND TPI-2002(2002) FOR NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314. AND WICK (WOOD TRUSS CONNECT OF AMERICA), 6500 ENTERPRISE LANE, 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-2002(2002) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN. THIS SEAL IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE SEAL IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52666
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321083
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 137765
DUR.FAC.	1.25	
SPACING	24.0"	

Scale = .5"/ft.

JREF- 1T2F487_201

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

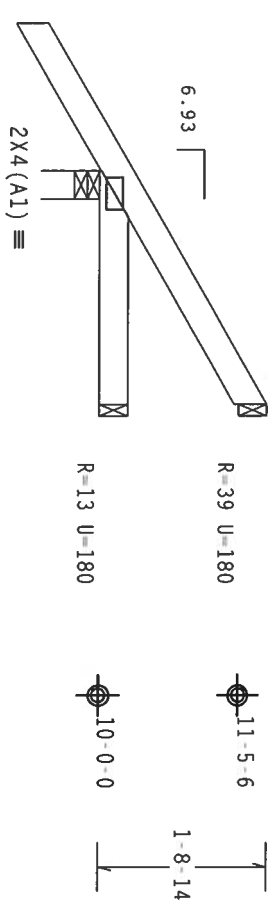
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.



1-6-3-2
2-4-12 over 3 Supports
R-250 U=180 W=3.5"

PLT TYP. Wave

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

7.24.13

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

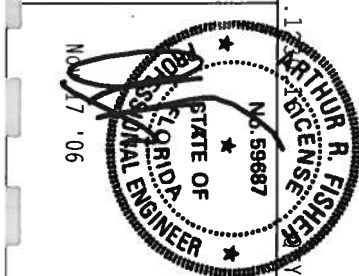
Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REAR BESSY BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W, K/H,SS) 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 AMEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT AND THE SUBMITTAL OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



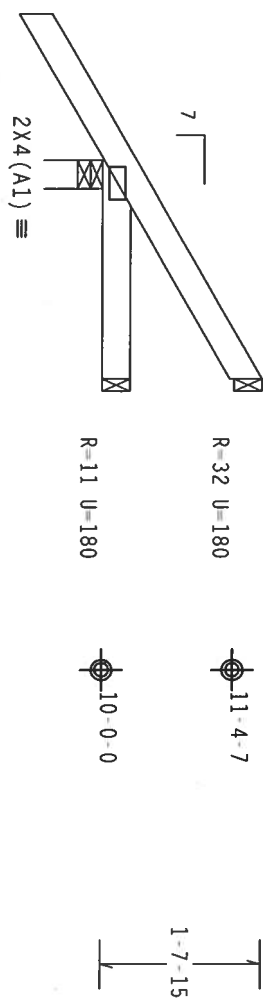
TC LL	20.0 PSF	REF R487-- 52667
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321082
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 137767
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2E487_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



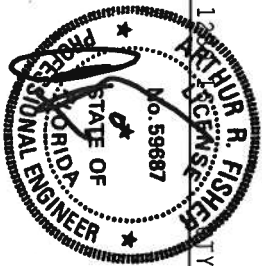
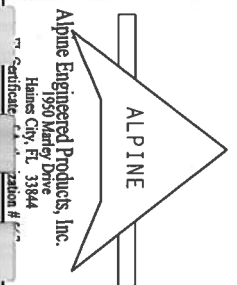
←1-6-0→
2-2-14 Over 3 Supports
R-245 U=180 W=3.5"

PLT TYP. Wave

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. AFTER TO BESET, BUILDING SHALL BE PROTECTED FROM DAMAGE BY WIND, HAIL, OR OTHER ELEMENTS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICK (WOOD TRUSS COMPANY) TRUSS COMPANY, 600 ENTERPRISE LANE, 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 A/E/P/A) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/V) ASTM A653 GRADE 40/60 (W. K/H, 551 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-1, 2002 SEC.3. 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.



TC LL	20.0 PSF	REF R487-- 52668
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321084
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 137770
DUR.FAC.	1.25	
SPACING	24.0"	

Scale = .5"/ft.

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

Wind reactions based on MMFRS pressures.

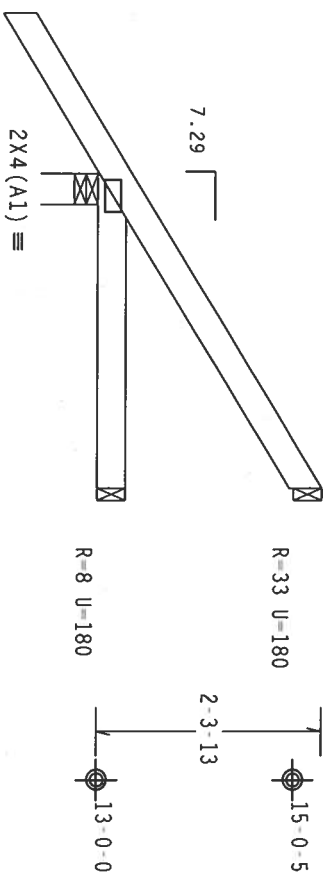
Hipjack supports 2-3-7 setback jacks with no webs.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



←1-7-11→

3-2-13 Over 3 Supports
R=128 U=180 W=3.84"

PLT TYP. Wave

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

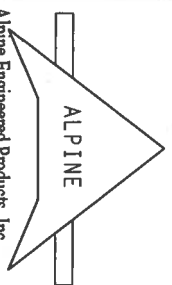
7.24.13

FL/-/4/-/R/-

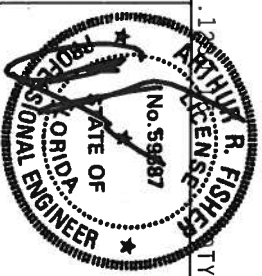
Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 ENTERPRISE LANE, 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 CORRECTIONS ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/50 (W. K/H/SS) GALV. STEEL. APPLY ALL TIES TO TOP CHORDS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL TRUSSES FOR ROOFS SHALL BE DESIGNED AND MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF THE 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 Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certificate of Registration # 547



TC LL	20.0 PSF	REF R487-- 52669
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321094
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SECN- 137042
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2E487_201

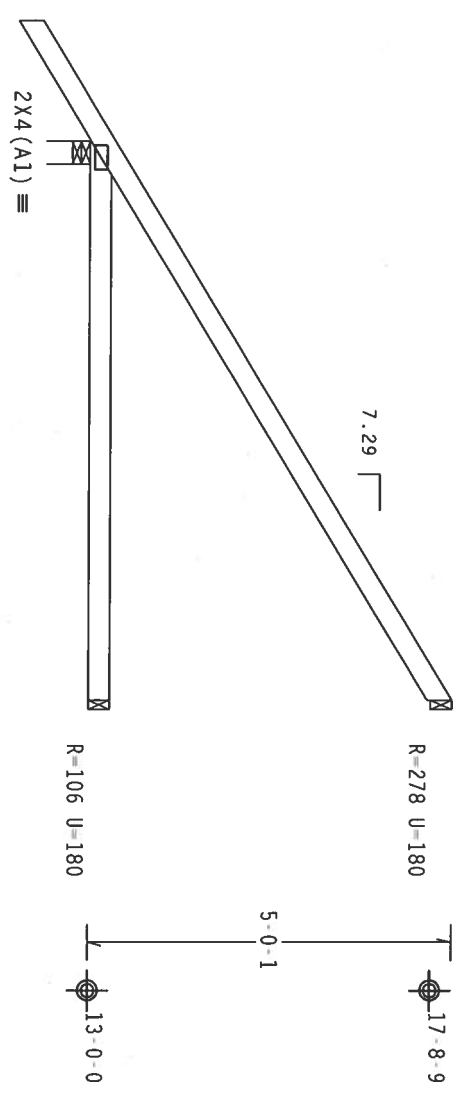
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

Hipjack supports 5'-4" setback jacks with no webs.

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

110 mph wind, 15.18 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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Provide (2) 16d common nails(0.162"x3.5"); toe nailed at Top chord. Provide (2) 16d common nails(0.162"x3.5"); toe nailed at Bot chord.



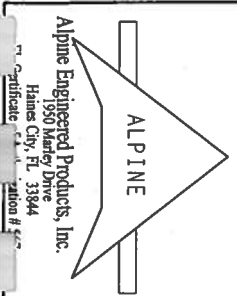
7'-7-13 Over 3 Supports
R=279 U=180 W=3.84*

PLT TYP. Wave

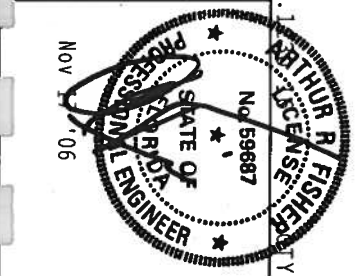
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INFORMATION, V.A. 22314, AND WCA (WOOD TRUSS CONSTRUCTION) 6206 ENTERPRISE LANE, 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/PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (4.4/3.5/2.8) ASH 4653 GRADE 40/60 (4" X 1/4" 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALPINE CONNECTOR PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Mary Drive
Haines City, FL 33844
Phone: 888-248-2482
Fax: 888-248-2483
E-mail: sales@alpineeng.com
Website: www.alpineeng.com



TC LL	20.0 PSF	REF R487-- 52670
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321095
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137057
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 117F487_201

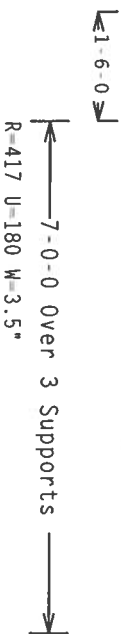
Scale = .375"/ft.

110 mph wind, 15.20 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 $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

7.24.12

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

Scale = .375" / Ft.

*****WARNING*****
 TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, AND BRACING.
 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 63000
 ENTERPRISE LANE, MOISTON, SC 29159) FOR SAFETY PRACTICES PRIOR TO PERFORMING THE SE FUNCTIONS.
 UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED RIDGE CEILING.

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

CRUZZ IN CONFORMANCE WITH IPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING DESIGN CONFORMS WITH ADOPTABLE PROVISIONS OF AND NATIONAL DESIGN CODES BY SEVERAL U.S. PAT.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC., BY AREA) AND IPI. ALPINE CONNECTOR PLATES ARE MADE OF 3019/16GA (41 H/53/41) ASTM A563 GRADE 40/60 (41 H/41 EE) C411 STEEL.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1604-2 CONNECTION FEMININE MADE OF 20/10/1000 (M.M./35/K) 431M A033 GRADE 40/50 (M. K/M.35) GALV. STEEL. APPLT

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 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.

Figure 1

Nov 17 '06

TC LL	20.0 PSF	REF	R487 - 52671
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUS6487 06321102
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	137040
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2E487_201

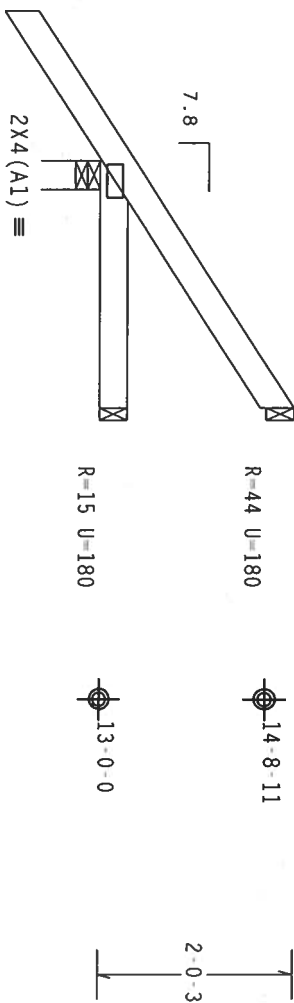
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.13

FL/-/4/-/1./R/-

Scale = .5" / Ft.

WARNING THESE STEEL TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING TO PREVENT DAMAGE TO THE TRUSSES. FOR MORE INFORMATION, CONTACT THE MANUFACTURER.
 REFER TO BC61 (BOLTING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PANEL INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NPGA (WOOD JOINTS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, 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 PROPERLY ATTACHED RIDGE CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMANCE WITH ADOPTING & MONITORING OF IND. DESIGN. DESIGN FROM IND. DESIGN. THE IND. DESIGN.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AWS (NATIONAL DESIGN SPEC., BT 48/P.A.) AND IP1.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC. 3. A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

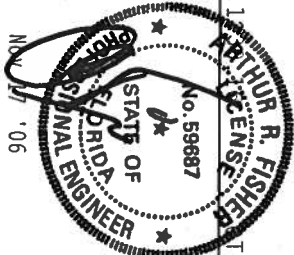
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

☐ ☐ ☐ ☐ ☐ ☐

ALPINE

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

certificates
Zalton # 1000



TC LL	20.0 PSF	REF	R487-- 52672
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321097
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	137027
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

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

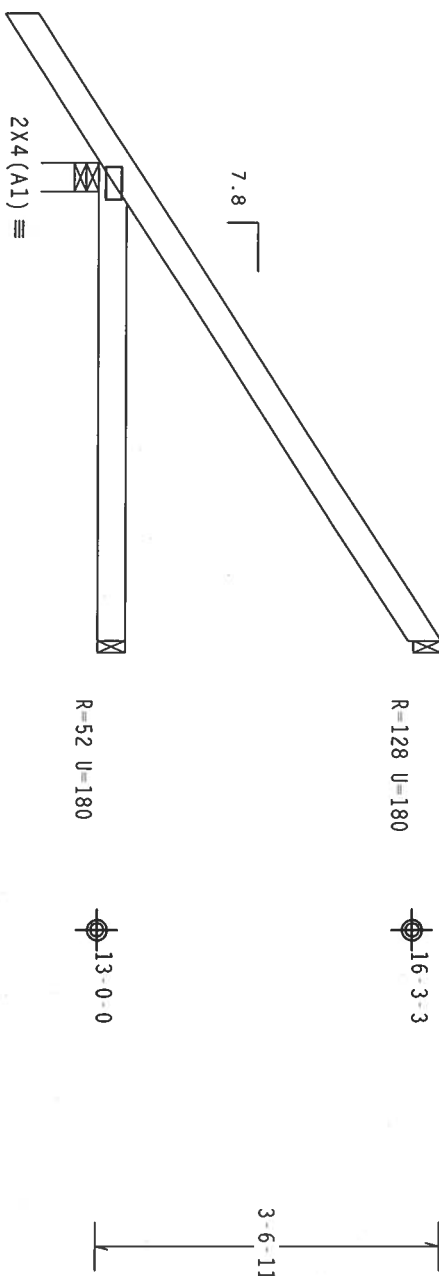
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.



1-6-7

4-10-14 Over 3 Supports
R=338 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

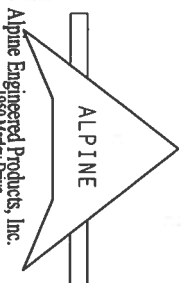
7.24.1

FL/-4/-/R/-

Scale =.5"/ft.

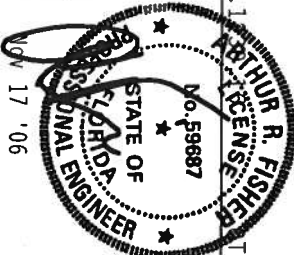
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BESS BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



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

Professional Engineer
License No. 59687
State of Florida



TC LL	20.0 PSF	REF	R487--	52673
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCSR487	06321098
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEON-	137031	
DUR.FAC.	1.25			
SPACING	24.0"			

JRFF-1TPE487_201

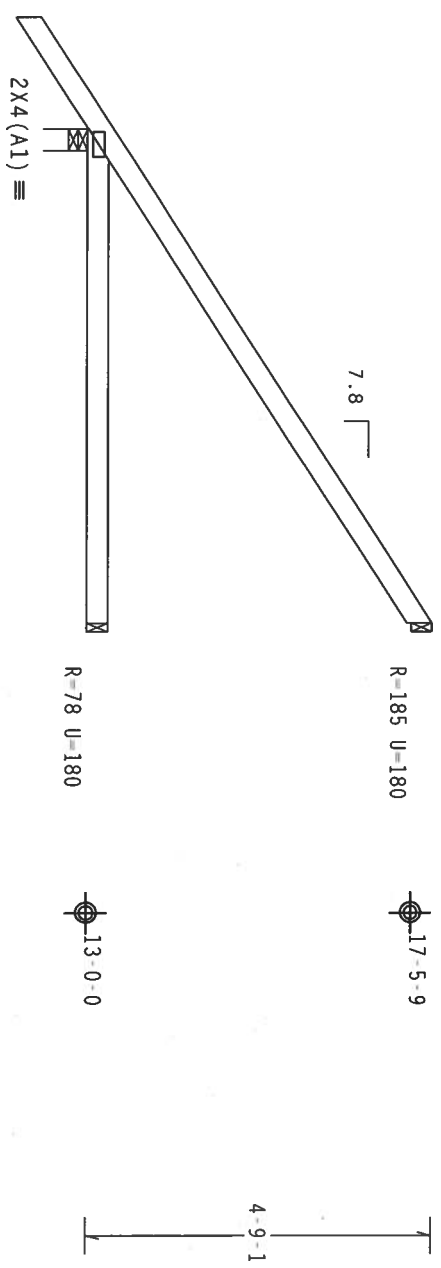
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MFRS pressures.

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

110 mph wind, 15.06 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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
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.



1-6-7

6-9-1 Over 3 Supports
R=409 U=180 W=3.5"

PLT TYP. Wave

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

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

FL/4/-/-R/-

Scale = .375"/ft.

ALPINE		No. 59687		FL/4/-/-R/-		Scale = .375"/ft.	
Alpine Engineered Products, Inc.		No. 11/06		TC LL		20.0 PSF	
Haines City, FL 33844		No. 11/06		TC DL		10.0 PSF	
1950 Marley Drive		No. 11/06		BC DL		10.0 PSF	
Certificate		No. 11/06		BC LL		0.0 PSF	
		No. 11/06		TOT. LD.		40.0 PSF	
		No. 11/06		DUR. FAC.		1.25	
		No. 11/06		SPACING		24.0"	
		No. 11/06		REF		R487-- 52674	
		No. 11/06		DATE		11/17/06	
		No. 11/06		DRW		HCUK487 06321099	
		No. 11/06		HC-ENG		JB/AF	
		No. 11/06		SEQN-		137034	
		No. 11/06		JREF		1T2F487_201	

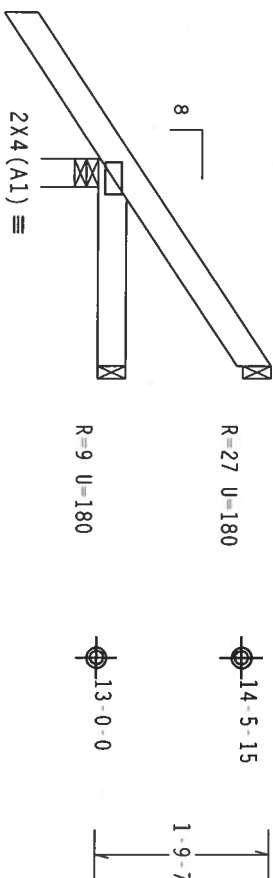
Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



1-6-0

2-1-8 Over 3 Supports

R=246 U=180 W=3.5'

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

PROPERTY: 1

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

Scale = .5"/Ft.

WARNING (BIDDERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO GC51) (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (GRASS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD ROSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MOHAWK, IN, 45719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGID CEILING.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH P1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AASHTO) AND TPI. CONNECTOR PLATES ARE MADE OF 30418/1554 (40 W48/40) STEEL. SEE NOTES 10.100, 10.101, 10.102, 10.103, 10.104, 10.105, 10.106, 10.107, 10.108, 10.109, 10.110, 10.111, 10.112, 10.113, 10.114, 10.115, 10.116, 10.117, 10.118, 10.119, 10.120, 10.121, 10.122, 10.123, 10.124, 10.125, 10.126, 10.127, 10.128, 10.129, 10.130, 10.131, 10.132, 10.133, 10.134, 10.135, 10.136, 10.137, 10.138, 10.139, 10.140, 10.141, 10.142, 10.143, 10.144, 10.145, 10.146, 10.147, 10.148, 10.149, 10.150, 10.151, 10.152, 10.153, 10.154, 10.155, 10.156, 10.157, 10.158, 10.159, 10.160, 10.161, 10.162, 10.163, 10.164, 10.165, 10.166, 10.167, 10.168, 10.169, 10.170, 10.171, 10.172, 10.173, 10.174, 10.175, 10.176, 10.177, 10.178, 10.179, 10.180, 10.181, 10.182, 10.183, 10.184, 10.185, 10.186, 10.187, 10.188, 10.189, 10.190, 10.191, 10.192, 10.193, 10.194, 10.195, 10.196, 10.197, 10.198, 10.199, 10.200, 10.201, 10.202, 10.203, 10.204, 10.205, 10.206, 10.207, 10.208, 10.209, 10.210, 10.211, 10.212, 10.213, 10.214, 10.215, 10.216, 10.217, 10.218, 10.219, 10.220, 10.221, 10.222, 10.223, 10.224, 10.225, 10.226, 10.227, 10.228, 10.229, 10.230, 10.231, 10.232, 10.233, 10.234, 10.235, 10.236, 10.237, 10.238, 10.239, 10.240, 10.241, 10.242, 10.243, 10.244, 10.245, 10.246, 10.247, 10.248, 10.249, 10.250, 10.251, 10.252, 10.253, 10.254, 10.255, 10.256, 10.257, 10.258, 10.259, 10.260, 10.261, 10.262, 10.263, 10.264, 10.265, 10.266, 10.267, 10.268, 10.269, 10.270, 10.271, 10.272, 10.273, 10.274, 10.275, 10.276, 10.277, 10.278, 10.279, 10.280, 10.281, 10.282, 10.283, 10.284, 10.285, 10.286, 10.287, 10.288, 10.289, 10.290, 10.291, 10.292, 10.293, 10.294, 10.295, 10.296, 10.297, 10.298, 10.299, 10.300, 10.301, 10.302, 10.303, 10.304, 10.305, 10.306, 10.307, 10.308, 10.309, 10.310, 10.311, 10.312, 10.313, 10.314, 10.315, 10.316, 10.317, 10.318, 10.319, 10.320, 10.321, 10.322, 10.323, 10.324, 10.325, 10.326, 10.327, 10.328, 10.329, 10.330, 10.331, 10.332, 10.333, 10.334, 10.335, 10.336, 10.337, 10.338, 10.339, 10.340, 10.341, 10.342, 10.343, 10.344, 10.345, 10.346, 10.347, 10.348, 10.349, 10.350, 10.351, 10.352, 10.353, 10.354, 10.355, 10.356, 10.357, 10.358, 10.359, 10.360, 10.361, 10.362, 10.363, 10.364, 10.365, 10.366, 10.367, 10.368, 10.369, 10.370, 10.371, 10.372, 10.373, 10.374, 10.375, 10.376, 10.377, 10.378, 10.379, 10.380, 10.381, 10.382, 10.383, 10.384, 10.385, 10.386, 10.387, 10.388, 10.389, 10.390, 10.391, 10.392, 10.393, 10.394, 10.395, 10.396, 10.397, 10.398, 10.399, 10.400, 10.401, 10.402, 10.403, 10.404, 10.405, 10.406, 10.407, 10.408, 10.409, 10.410, 10.411, 10.412, 10.413, 10.414, 10.415, 10.416, 10.417, 10.418, 10.419, 10.420, 10.421, 10.422, 10.423, 10.424, 10.425, 10.426, 10.427, 10.428, 10.429, 10.430, 10.431, 10.432, 10.433, 10.434, 10.435, 10.436, 10.437, 10.438, 10.439, 10.440, 10.441, 10.442, 10.443, 10.444, 10.445, 10.446, 10.447, 10.448, 10.449, 10.450, 10.451, 10.452, 10.453, 10.454, 10.455, 10.456, 10.457, 10.458, 10.459, 10.460, 10.461, 10.462, 10.463, 10.464, 10.465, 10.466, 10.467, 10.468, 10.469, 10.470, 10.471, 10.472, 10.473, 10.474, 10.475, 10.476, 10.477, 10.478, 10.479, 10.480, 10.481, 10.482, 10.483, 10.484, 10.485, 10.486, 10.487, 10.488, 10.489, 10.490, 10.491, 10.492, 10.493, 10.494, 10.495, 10.496, 10.497, 10.498, 10.499, 10.500, 10.501, 10.502, 10.503, 10.504, 10.505, 10.506, 10.507, 10.508, 10.509, 10.510, 10.511, 10.512, 10.513, 10.514, 10.515, 10.516, 10.517, 10.518, 10.519, 10.520, 10.521, 10.522, 10.523, 10.524, 10.525, 10.526, 10.527, 10.528, 10.529, 10.530, 10.531, 10.532, 10.533, 10.534, 10.535, 10.536, 10.537, 10.538, 10.539, 10.540, 10.541, 10.542, 10.543, 10.544, 10.545, 10.546, 10.547, 10.548, 10.549, 10.550, 10.551, 10.552, 10.553, 10.554, 10.555, 10.556, 10.557, 10.558, 10.559, 10.560, 10.561, 10.562, 10.563, 10.564, 10.565, 10.566, 10.567, 10.568, 10.569, 10.570, 10.571, 10.572, 10.573, 10.574, 10.575, 10.576, 10.577, 10.578, 10.579, 10.580, 10.581, 10.582, 10.583, 10.584, 10.585, 10.586, 10.587, 10.588, 10.589, 10.590, 10.591, 10.592, 10.593, 10.594, 10.595, 10.596, 10.597, 10.598, 10.599, 10.600, 10.601, 10.602, 10.60

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC 3. A SEAL ON TRUSS CONNECTION PLATE/END MADE ON 20/10/2004 IN 0.753/KR/AS33 GRADE 40/60 (M, K/H.35) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

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.



ALPINE

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

For Certificate of Registration # 577



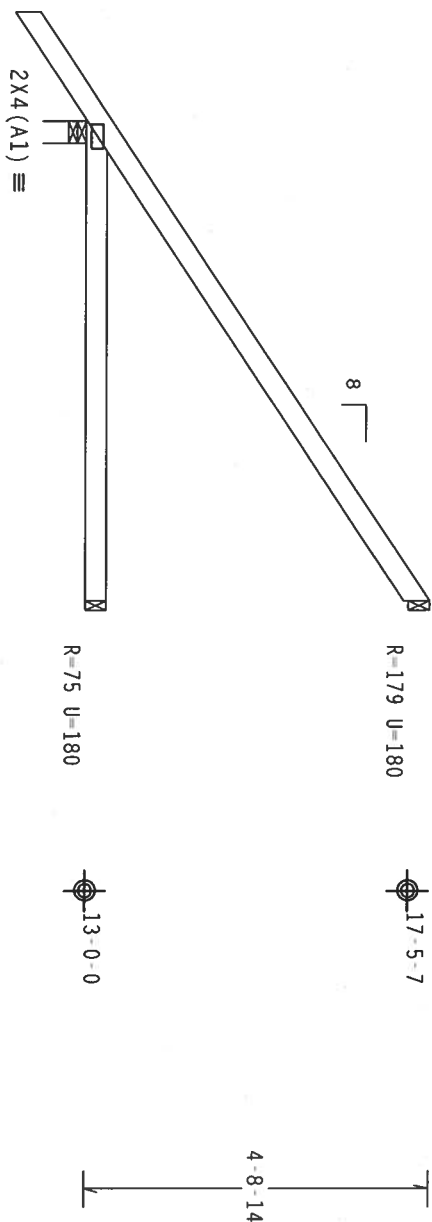
1	FL-/-/-/R/-	Scale =.5"/ft.
TC LL	20.0 PSF	REF R487- 52675
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321100
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 137036
DUR.FAC.	1.25	
SPACING	24.0"	JBFF- 1T2E487_201

110 mph wind, 15.06 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/240 live and L/180 total load. Creep increase factor for dead load is 1.50

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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 ✓

6-6-11 Over 3 Supports —→
R=399 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24

QTY:1 FL/-/4/-/-/R/-

Scale = .375"/Ft.

WARNING
BUNDLES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. SEE THE FOLLOWING INFORMATION FOR THE PROPER BRACING OF THE TRUSS PANELS.
REFER TO BC91 (TRUSS COMPONENT SAFETY INFORMATION) - PUBLISHED BY THE TRUSS PANEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WCA (WOOD ROSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MOJOSS, MI 52079) 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.

PRODUCTS, 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 AND BRACING OF TRUSSES. DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN CODE (EN 1993-1-1) AND THE

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W H/SS/K) ASTM A653 GRADE 40/60 (W K/H SS) GALV DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND IPI.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC. 3. A SEAL ON THIS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

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.

Nov 17 '06

TC LL	20.0 PSF	REF	R487 - 52676
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321101
BC LL	0.0 PSF	HC-ENG JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	137038
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

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

SPECIAL LOADS

----- (LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)
TC - From 60 PLF at 0.00 to 60 PLF at 5.79
BC - From 20 PLF at 0.00 to 20 PLF at 5.79
TC - 650 LB Conc. Load at 0.56, 2.56, 4.56

Wind reactions based on MMFRS pressures.

End verticals not exposed to wind pressure.

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

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

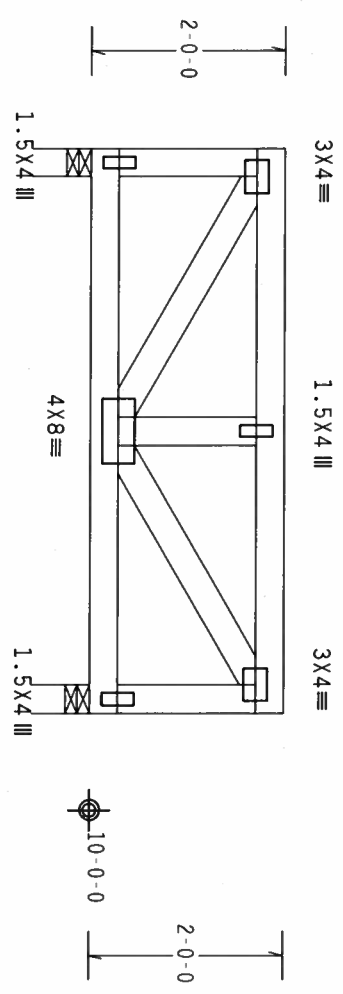
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @ 5.25" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Truss must be installed as shown with top chord up.

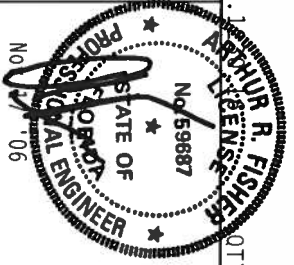


PLT TYP. Wave

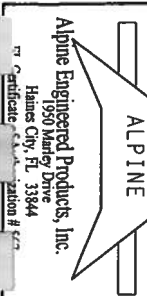
Design Crit: TPI-2002(STD) /FBC
Cq/RT=1.00(1.25)/10(0)

WARNINGS TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO BCSS (WOOD JOINTS) AND BCSS (WOOD JOINTS) IS REQUIRED. SEE BCSS (WOOD JOINTS) FOR MORE INFORMATION. NORTH LEE STREET, 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 CONNECTION PLATES ARE MADE OF 2018/16GA (44/55/5) ASTM A653 GRADE 40/60 (4" K/M 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING SHALL BE AFFIXED TO THE BOTTOM CHORD OF THE TRUSS. THE SEAL SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/7P1 1 SEC. 2.



FL/-/4/-/-/R/-		Scale = .5"/ft.	
TC LL	20.0 PSF	REF	R487-- 52677
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321042
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137327
DUR.FAC.	1.25		
SPACING	24.0"		



QREF- 117E487_201

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

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

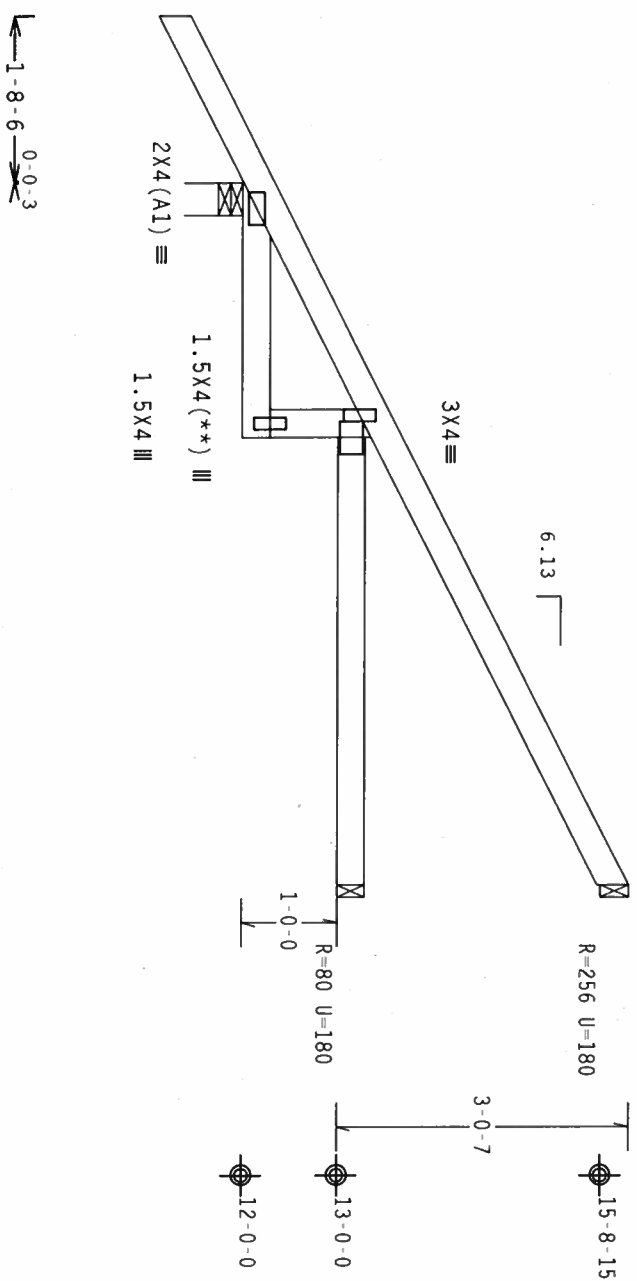
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

Hipjack supports 5-1-7 setback jacks with no webs.

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



PLT TYP. Wave

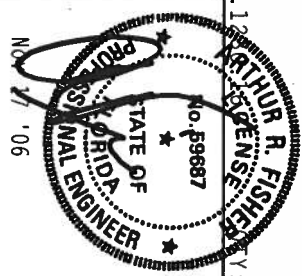
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST BUILDING COMPONENTS SHEET, SECTION 2231A, AND WICK (WOOD TRUSS CONNECT) OF AMERICA, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/S) ASTM A653 GRADE 40/60 (W, K/H, 55) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHEET INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. SUCH ACCEPTANCE IS NOT A GUARANTEE OF THE TRUSS OR THE TRUSS DESIGN. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certification # 17



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

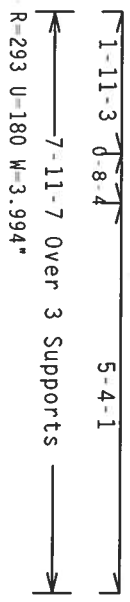
Scale = .5"/ft.

TC LL	20.0 PSF	REF R487-- 52678
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321106
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 17537
DUR.FAC.	1.25	
SPACING	24.0"	URFF- 1T2F487_201

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.

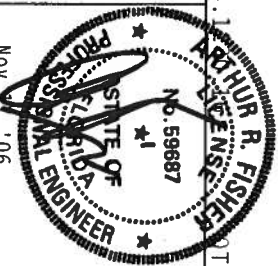
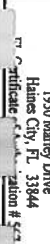
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



Scale = .375"/Ft.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52679
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321108
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	136930
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

Wind reactions based on MWFRS pressures.

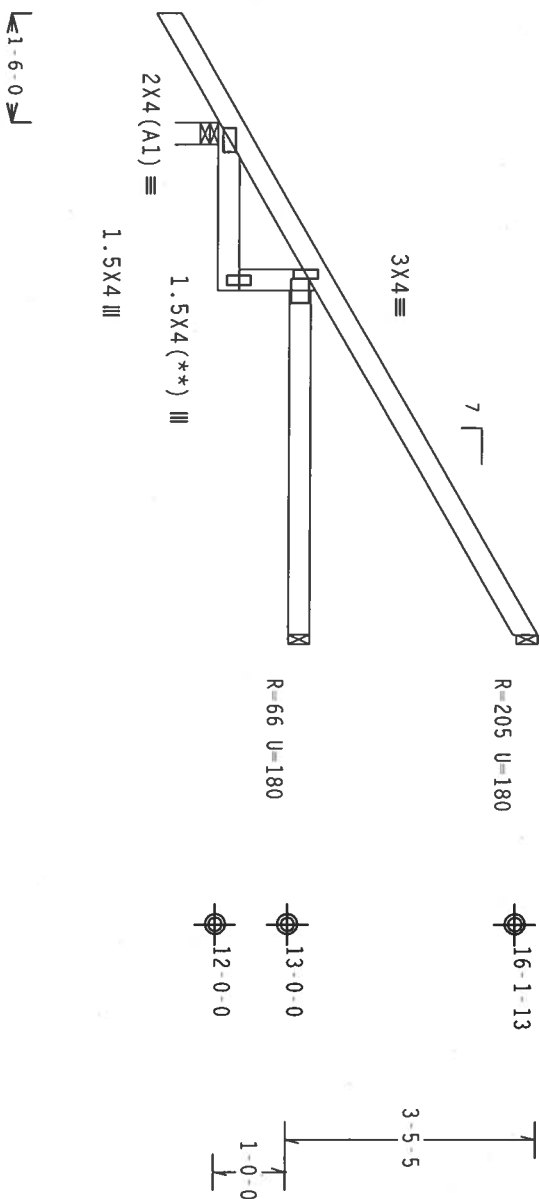
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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



Design Crit: TPI-2002(STD)/FBC

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

7.24.1

7.24.1

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

Scale = .375" / Ft.

WARNING
BULLETS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRIVING
REFER TO DC61 (BULLETDOME COMPONENT SAFETY INFORMATION), PUBLISHED BY IPT, TRUSS PANE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND APCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, MARIETTA, VA 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
SPECIFICALLY INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
PROPERLY ATTACHED RIGID CEILING.

Alpine Engineered Products, Inc.
1050 McArthur Drive

1930 Mauney Drive
Haines City, FL 33844
Certificate of Registration # 11111111

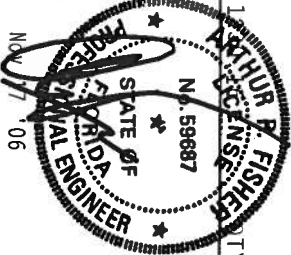
**** IMPORTANT ****
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/160A (M. H. 55/K) ASTM A653 GRADE 40/60 (M. K. H. 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z AND 160B-Z. INTERFERENCE OF PLATE BOLDS BY ALL BULBS OF SECTION 2.2 SHALL BE ELIMINATED.

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 SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.



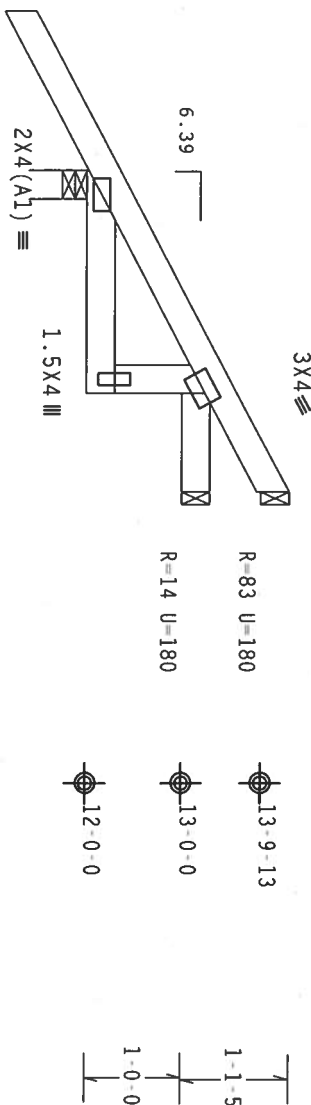
TC LL	20.0 PSF	REF	R487 - 52680
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321112
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	17535
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2E487_Z01

Wind reactions based on MWFRS pressures.

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



1.7.9

$\frac{2-3-8}{3-3-11}$ Over 3 Supports $\frac{1-0-3}{3}$
 R=286 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$Cq/RT=1.00(1.25)/10(0)$	7.24.1
--------------------------	--------

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

Scale = .5" / Ft.

WARNING
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO GC'S (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (IRISS PAVE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (WOOD JOINT COUNCIL OF AMERICA, 6500
 ENTERPRISE LANE, MOJOSON, MI 52039) 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

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. BEFORE CONTRACTOR BEGINS WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF SDS (ASTM A553) AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H.55) GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER 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/TPI 1 SEC. 2.

100

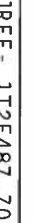
PINE ENGINEERED
ARE TO BUILD THE
ING OF TRUSSES.
1. ALPINE
STEEL. APPLY
DRAWINGS 160A-Z
A SEAL ON THIS
TRUSS COMPONENT
SIBILITY OF THE

Professional Engineer Seal for Arthur B. Fisher, State of Florida, No. 55687, dated Nov 17 '06.

FL/-4/-/-/R/-		Scale =.5"/Ft.
TC LL	20.0 PSF	REF R487-- 52681
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321114
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 17524
DUR.FAC.	1.25	
SPACING	24.0"	DRWF- 172F487_201

REF ID: A87201

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

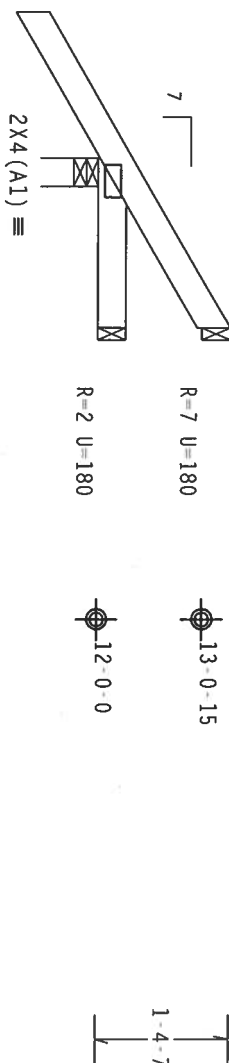


TC LL	20.0 PSF	REF	R487 - - 52682
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSUR487 06321110
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	17528
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2F487 201

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.



0-6-0

1-8-14 Over 3 Supports

R=238 U=180 W=3.5

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1

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

Scale = .5" / Ft.

*****WARNING***** THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC#1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND AISC (WOOD JOINTS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MOJOSON, MI 52319) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.


PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONCERNING WITH APPLICABLE REQUIREMENTS OF NON-STRUCTURAL DESIGN PER AN AREA.

DESIGN CONFORMS TO APPLICABLE PROVISIONS OF THE AISC STEEL DESIGN SPEC. (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) AND 1989 CONNECTION PLATES ARE MADE OF 20/18/17/66G (W, H, F, S, T) ASTM A573 GRADE 40/60 (W, H, F, S, T) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

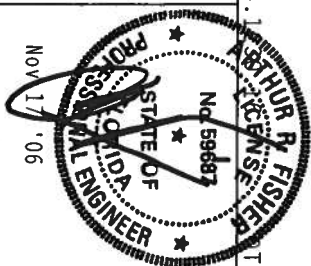
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/SPR 1 SEC. 2.

☐ ☐ ☐ ☐ ☐ ☐



Alpine Engineered Products, Inc.
 1950 Mowbray Drive
 Haines City, FL 33884



FL/-4/-/R/-		Scale =.5"/Ft.	
TC LL	20.0 PSF	REF	R487-- 52683
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321111
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	17531
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487_Z01

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

Wind reactions based on MMFRS pressures.

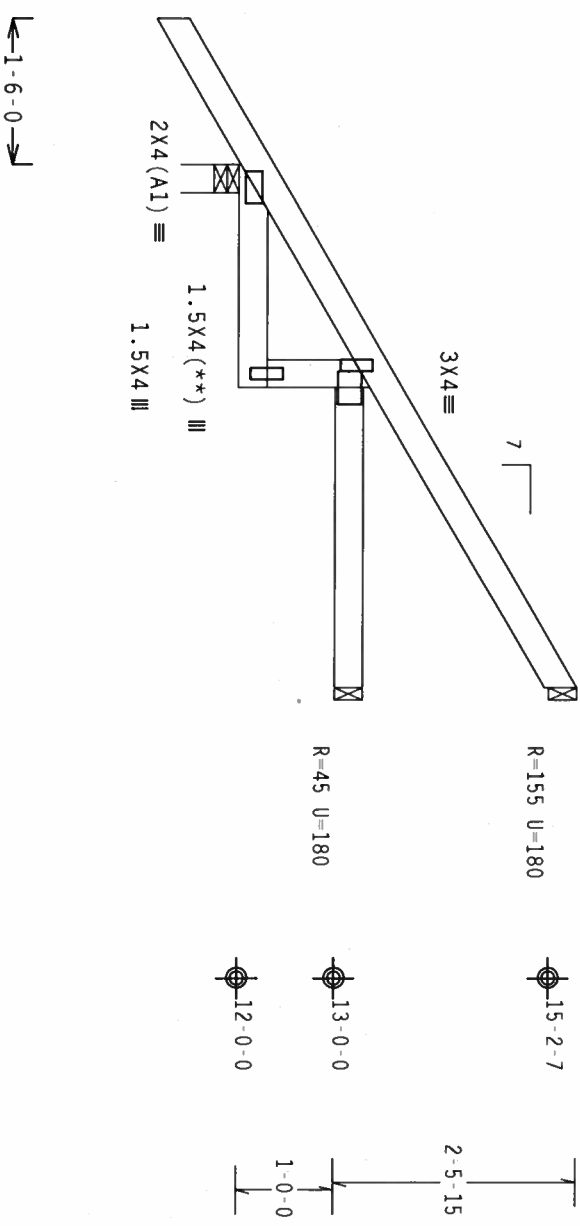
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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



PLT TYP. Wave

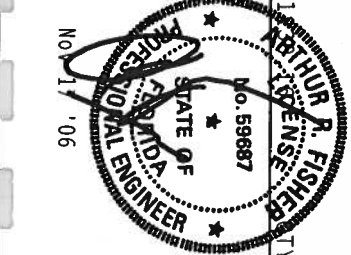
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INFORMATION SYSTEM (BCSIS) FOR TRUSS SAFETY INFORMATION. 6 NORTH LEE STREET, SUITE 312 ALEXANDRIA, VA 22314) AND WICKI (WOOD TRUSS CONNECTOR) OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/4/55/K) ASTM A653 GRADE 40/60 (M, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2.



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

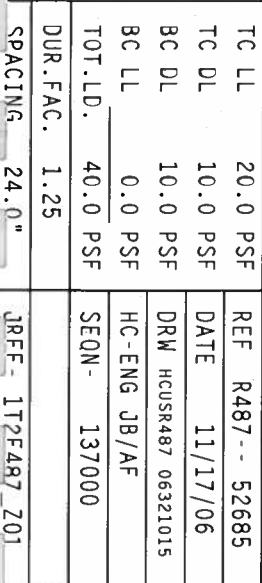


TC LL	20.0 PSF	REF	R487-- 52684
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321109
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	17533
DUR.FAC.	1.25		
SPACING	24.0"		

JREF- 117F487_201

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



Wind reactions based on MwFRS pressures.

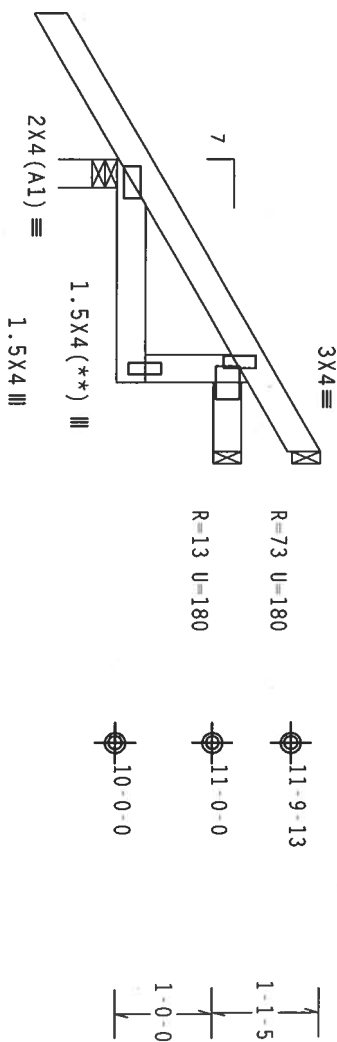
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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.

(**) I plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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



1-6-0

2-3-8
13-0-0 Over 3 Supports
R=265 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.12

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

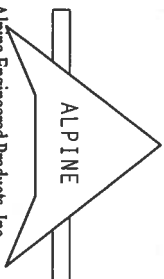
Scale = .5"/ft.

* * * WARNING * * *

BUILDERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC'S (TENSILE COMPONENT SAFETY INFORMATION). PUBLISHED BY TP1 (TRUSS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD ROSS COUNCIL OF AMERICA), 6500 ENTERPRISE LAKE, #M01-509, FALLS CHURCH, VA, 22044.

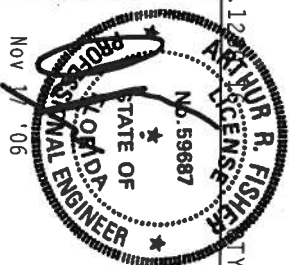
FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

IMPORTANT - FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD (NATIONAL DESIGN SPEC. BY AREA) AND IPI. APPLICABLE CONNECTION PLATES ARE MOD. OF 201/8/1604 (A/N/5/5/2) ASTM A563 GRADE 40/60 (A/ K/1-55) GALV. STEEL. APPLICABLE TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. DRAWING 1604-2 OF PLATE LOCATED HEREIN SHALL BE PER AREA AS OF THIS DATE, 2002, SEC. 3. THE SEAL ON THIS DRAWING IS THE PROPERTY OF ALPINE ENGINEERED PRODUCTS, INC. THE SUFFRABILITY AND USE OF ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS1/7P1 SEC. 2.



Alpine Engineered Products, Inc.

1950 Marney Drive
Haines City, FL 33844



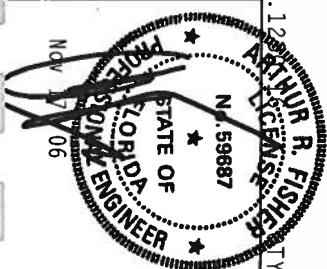
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TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321018
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	136925
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

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



Scale = .375"/Ft.

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.



FL/-4/-/-/R/-		Scale=.375"/Ft.	
TC LL	20.0 PSF	REF	R487-- 52689
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321017
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	136921
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_Z01

Wind reactions based on MWFRS pressures.

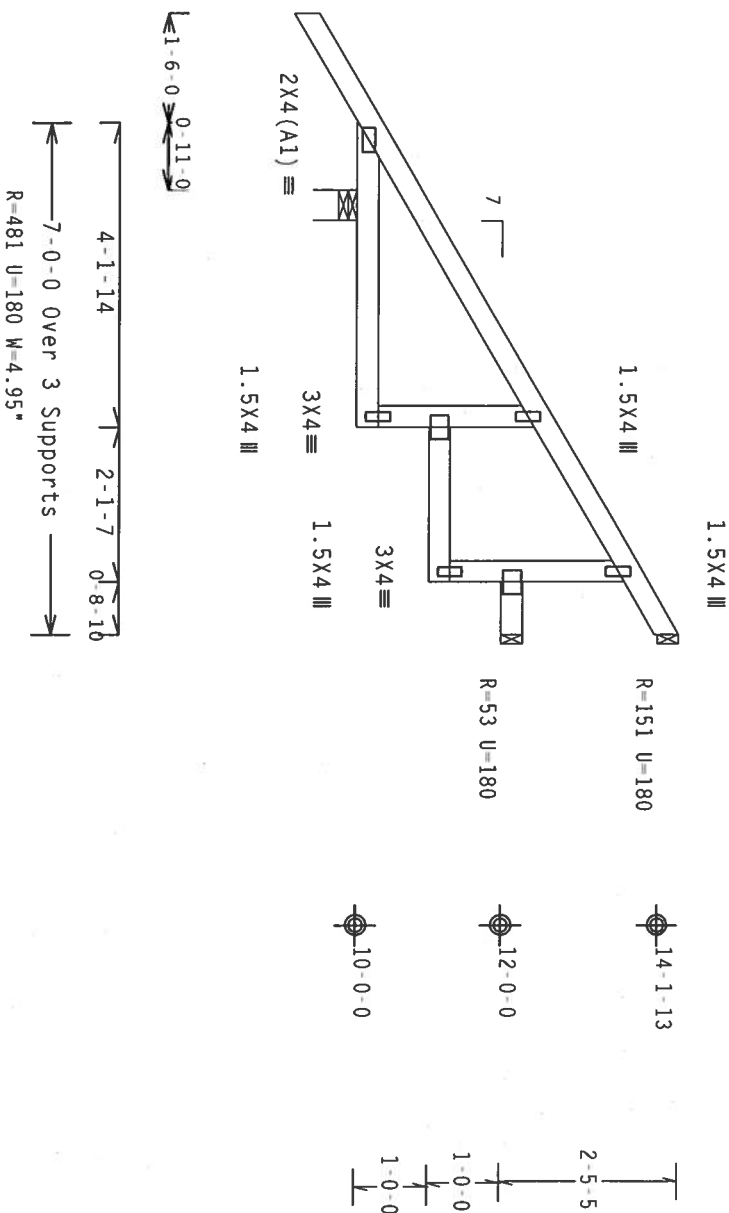
Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$\frac{Cq}{RT} = 1.00(1.25) / 10(0) \quad 7.24.1$$

7.24.1

STY:1 FL/-/4/-/-/R/-

Scale = .375" / Ft.

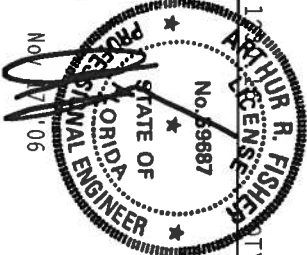
*****WARNING*****
THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING
REFER TO BC61 (BUILDING COMPONENT SPECIFICATIONS). PUBLISHED BY TPI (TRUSS PASTE INSTITUTE), 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 500
ENTERPRISE LANE, MOISTON, MI 48151 FOR SPECIFIC 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.

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA /W/ H/SS/SLT ASTM A653 GRADE 40/60 /W/ K/SLT GALV STEEL. ADVISE

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844
Certificate of Registration # 666



TC LL	20.0 PSF	REF	R487 - 52690
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	H05R487 06321142
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON	17508
DUR.FAC.	1.25		
SPACING	24.0"	DRFF	1T2F487/201

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

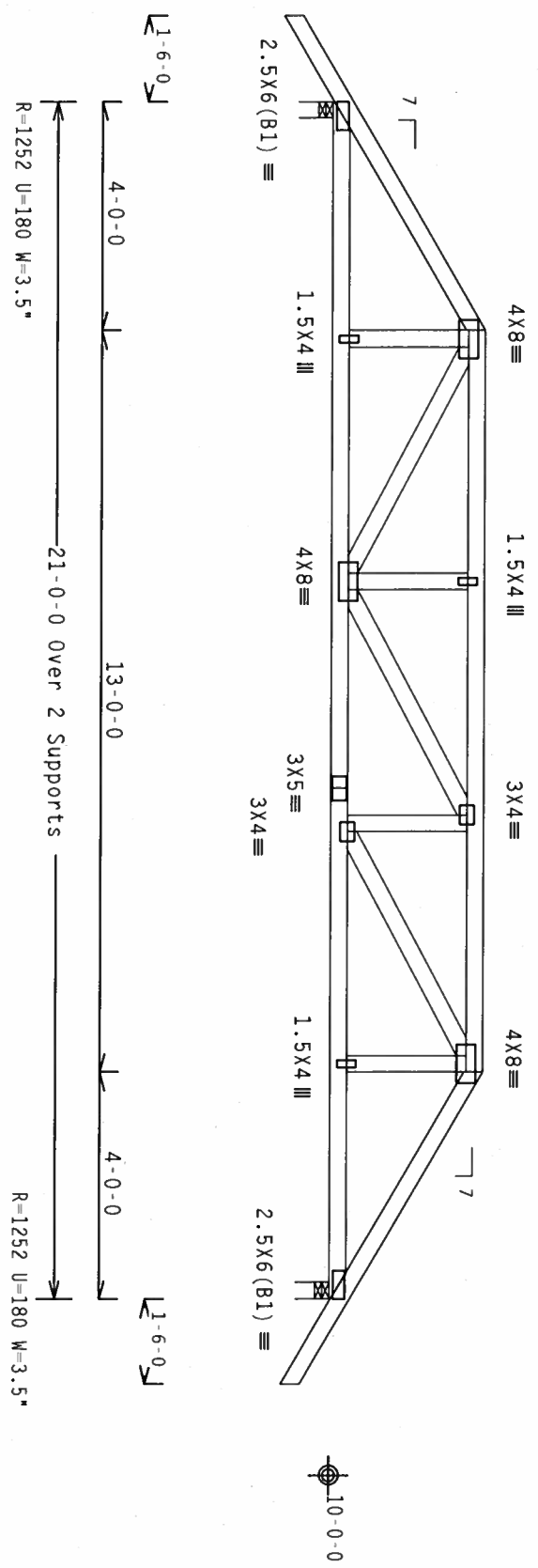
Wind reactions based on MMFRS pressures.

#1 hip supports 4-0-0 jacks with no webs.

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

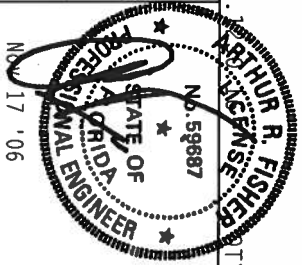
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. MEMBER BESS, (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, MOBILE, AL 36688) MUST BE USED FOR ALL TRUSSES. TRUSSES MUST BE DESIGNED TO PERFORM IN ALL DIRECTIONS. 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 (K/M/SS/K) ASTM A653 GRADE 40/60 (K/M/SS) 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 THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN. THE SUSTAINABILITY 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 Mateo Drive
Haines City, FL 33844

License # 1706



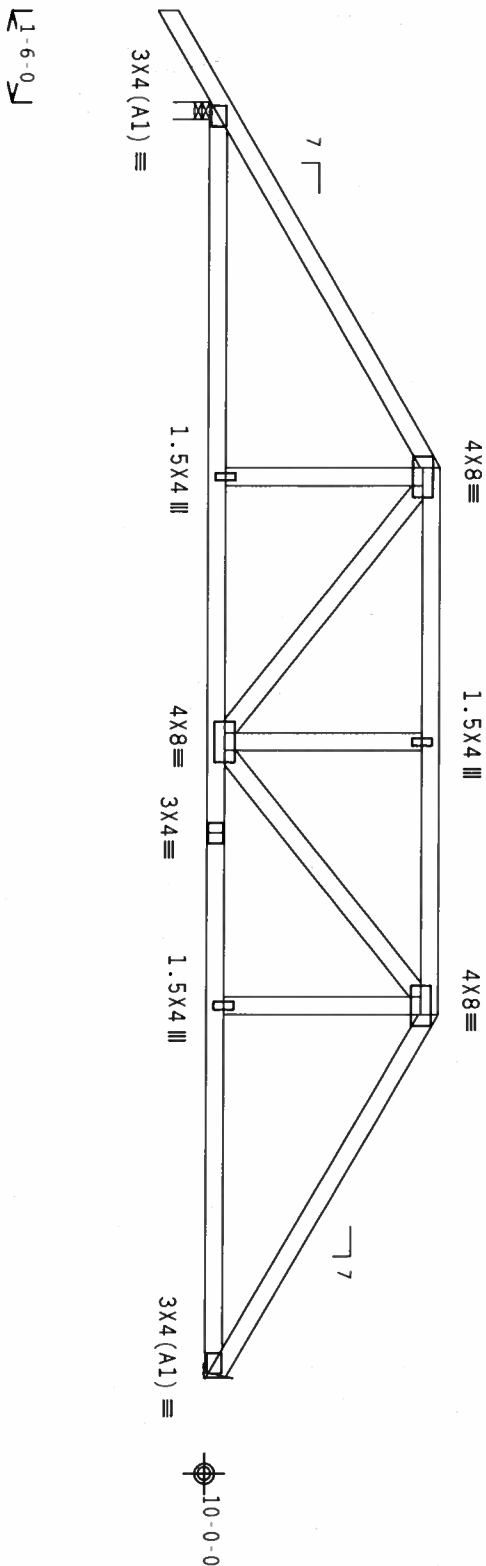
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TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321113
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137008
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TPE487_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



21'-0" Over 2 Supports
R=980 U=180 W=3.5"
R=868 U=180

PLT TYP. Wave

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

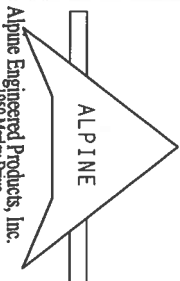
QTY:1 FL/-/4/-/R/-

Scale = .3125"/ft.

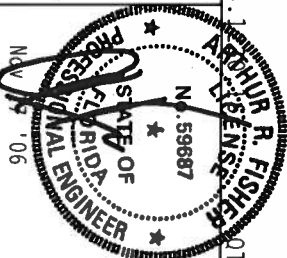
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP, BUILDING CODES, AND OTHER RELEVANT CODES. THE TRUSS IS DESIGNED FOR A 150 PSF DEAD LOAD AND A 150 PSF LIVE LOAD. THE TRUSS IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE TRUSS IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE TRUSS IS NOT TO BE USED FOR ANY OTHER PURPOSES.

****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 CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASH A663 GRADE 40/60 (W. K/H/SS) 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 ANNEX INDICATES THE SIGNATURE OF A PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SEAL IS THE PROPERTY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R487-- 52693
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321127
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	137016
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	117F487_201

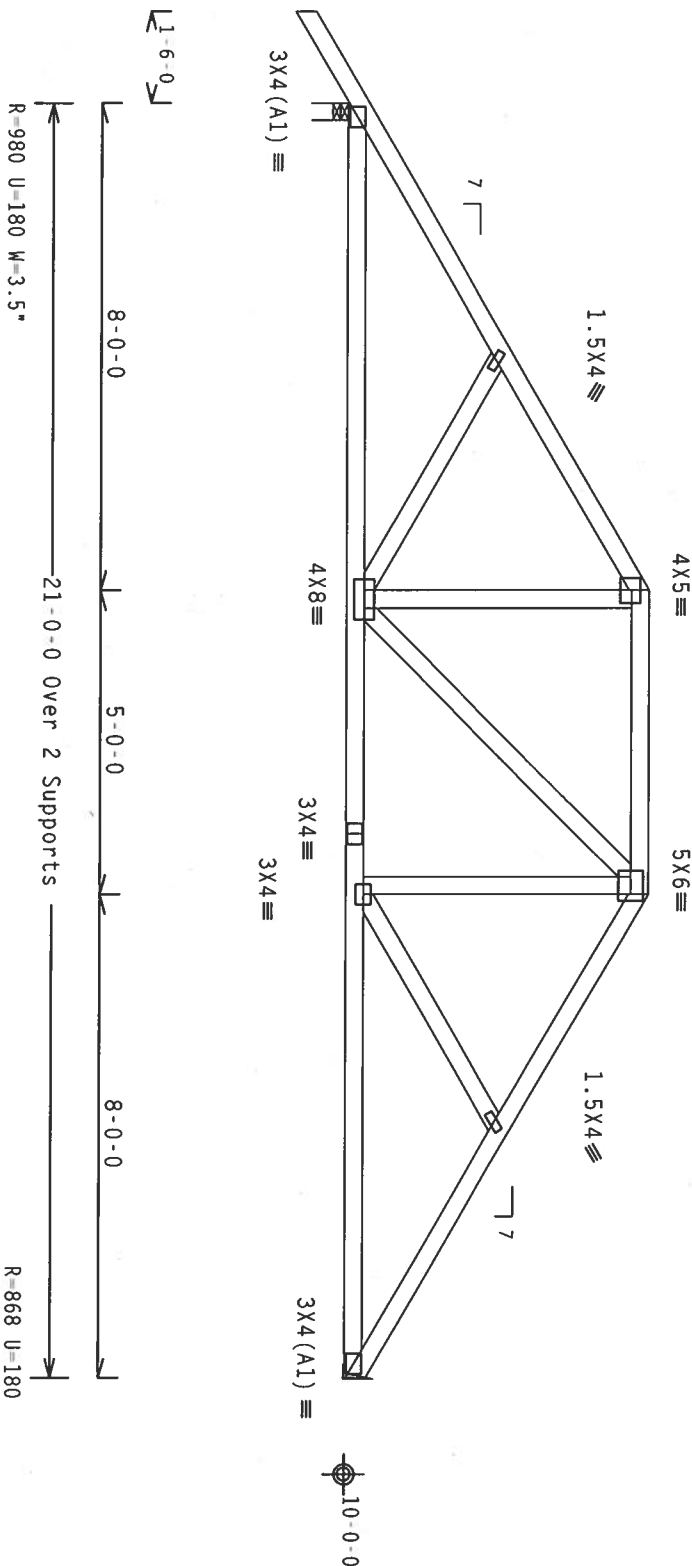
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

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

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24

QTY:1

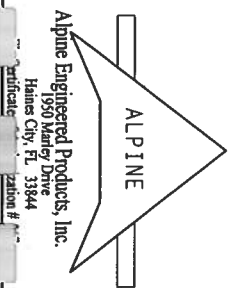
FL/-/4/-/R/-

Scale = .3125"/ft.

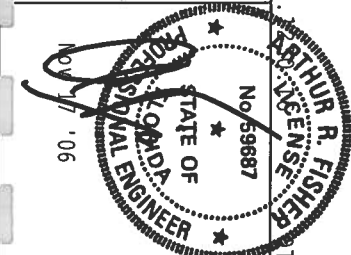
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES MUST BE PROTECTED FROM DAMAGE DURING TRANSPORTATION. THE TRUSS DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER ATTACHMENT OF THE TRUSS TO THE BUILDING STRUCTURE. THE TRUSS DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER ATTACHMENT OF THE TRUSS TO THE BUILDING STRUCTURE. THE TRUSS DESIGNER SHALL BE RESPONSIBLE FOR THE PROPER ATTACHMENT OF THE TRUSS TO THE BUILDING STRUCTURE.

****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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. 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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI.

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 DESIGNER'S USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A3 OF TPI-2002 SEC.3.



ALPINE ENGINEERED PRODUCTS, INC. 1950 Manley Drive Haines City, FL 33844



TC LL	20.0 PSF	REF	R487-- 52694
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCSR487 06321130
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SECN	137024
DUR. FAC.	1.25		
SPACING	24.0"		

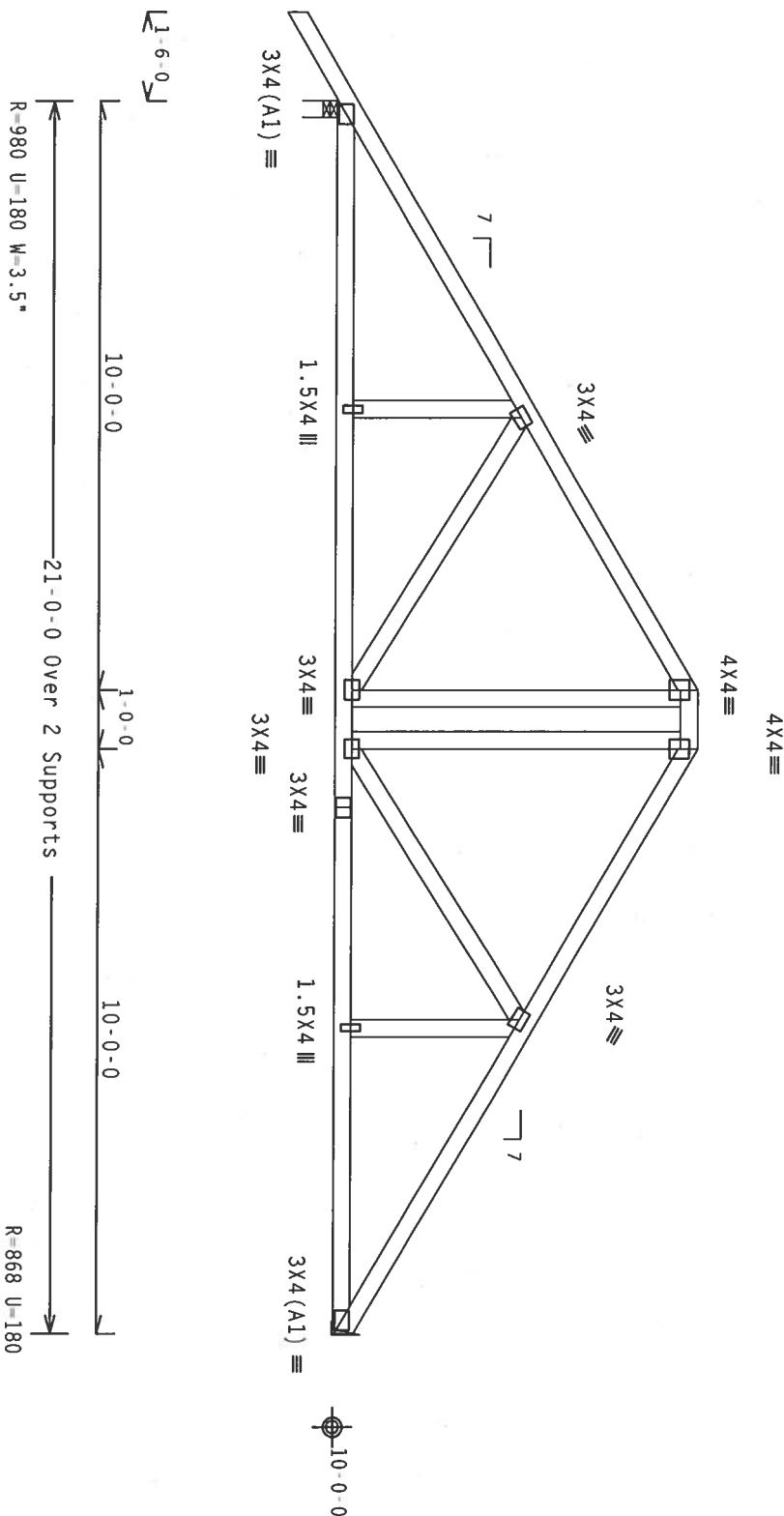
JRFF- 1T2E487_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

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

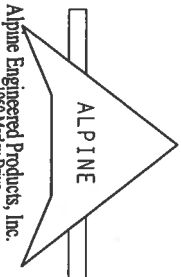
7.24.1

FL/-/4/-/R/-

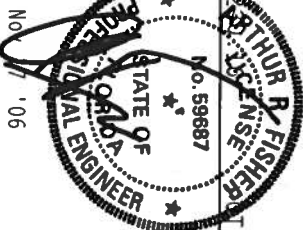
Scale = .3125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENTS, INC. INFORMATION, LANE, INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND WOOD TRUSS COMPANY, 6555 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SIGNATURE OF A PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SIGNATURE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF R487-- 52695
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321128
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137427
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1172487_201

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

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

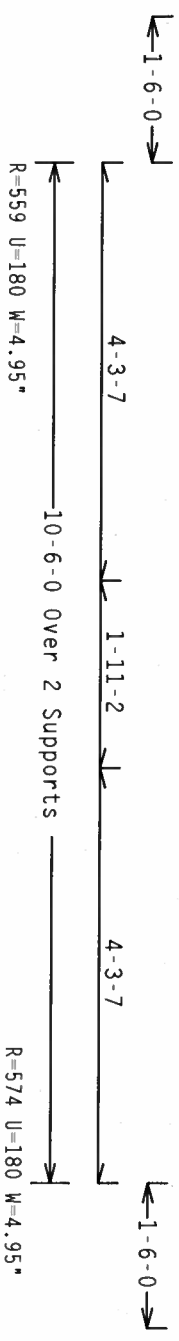
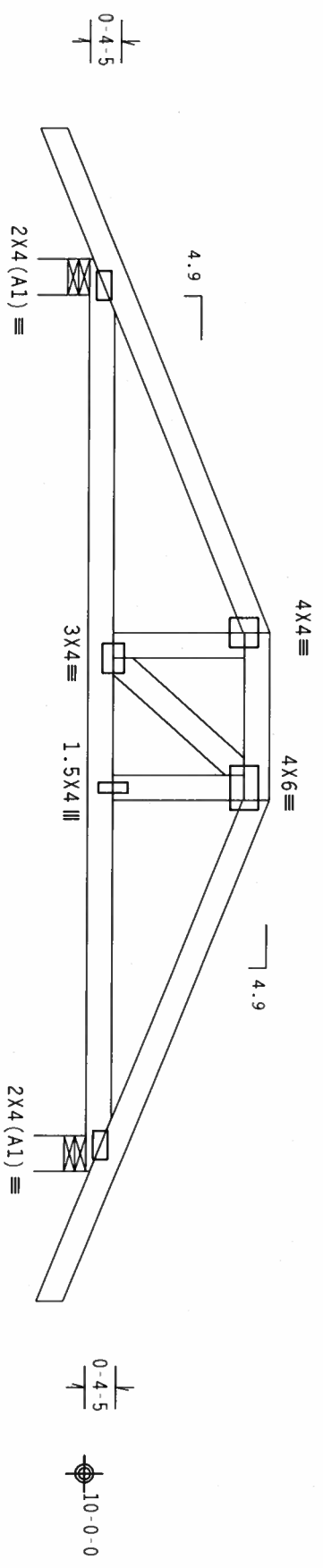
Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

SPECIAL LOADS

TC - From	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25	
BC - From	62 PLF at -1.50 to 62 PLF at 12.00	
BC - From	4 PLF at -1.50 to 4 PLF at 0.00	
BC - From	20 PLF at 0.00 to 20 PLF at 10.50	
BC - From	4 PLF at 10.50 to 4 PLF at 12.00	
TC -	-56 LB Conc. Load at 1.54, 8.96	
TC -	23 LB Conc. Load at 3.00, 7.50	
TC -	29 LB Conc. Load at 4.29, 6.21	
TC -	63 LB Conc. Load at 5.25	
BC -	-15 LB Conc. Load at 1.54, 8.96	
BC -	7 LB Conc. Load at 3.00, 4.29, 6.21, 7.50	
BC -	24 LB Conc. Load at 5.25	



PLT TYP. Wave

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

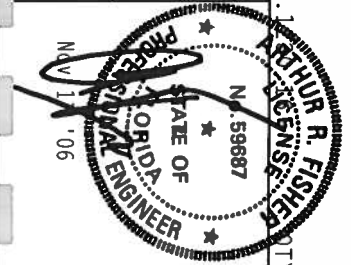
QTY: 1 FL/-/4/-/R/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC'S, BOTTOM CHORDS, TOP CHORDS, WEBS, AND INTERNAL BRACING. TRUSS FABRICATOR, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22319. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (N/A/SS/K) ASTM A653 GRADE 40/60 (N/A/SS) 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 FABRICATING INDUSTRY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Registration # 1500



TC LL	20.0 PSF	REF R487-- 52696
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321065
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137777
DUR.FAC.	1.25	
SPACING	24.0"	

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

SPECIAL LOADS

(LUMBER DUR.FAC=1.25 / PLATE DUR.FAC=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 10.50
BC - From 20 PLF at 0.00 to 20 PLF at 10.50
PLB- 172 LB Conc. Load at (0.81,10.04), (2.81,10.04), (4.81,10.04)
(5.69,10.04), (7.69,10.04), (9.69,10.04)

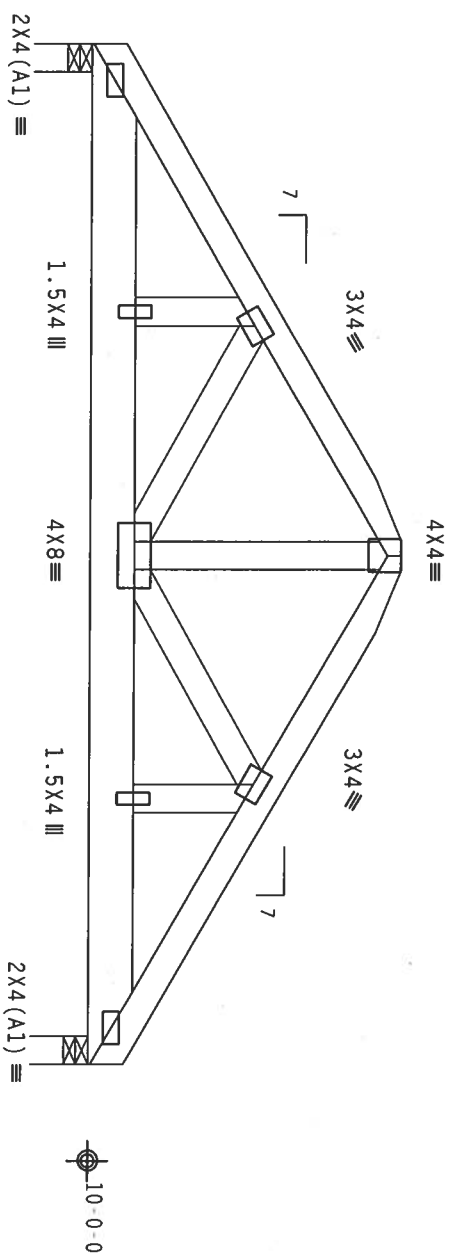
Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace
TC @ 24" OC, BC @ 24" OC.

2 COMPLETE TRUSSES REQUIRED

Nailling Schedule: (12d Common, (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



5'-3'-0
10'-6'-0 Over 2 Supports
5'-3'-0
R=952 U=180 W=3.5*
R=952 U=180 W=3.5*

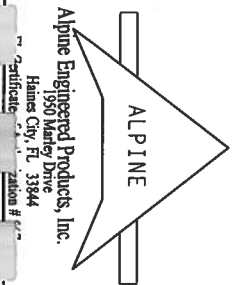
PLT TYP. Wave

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



FL/-/4/-/R/-

Scale = .5"/ft.



ALPINE
Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certificate of Design # 1111

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS (BUILDING COMPONENT SAFETY SYSTEM) PUBLICATIONS, TPI-2002, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 620 ENTERPRISE LANE, 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/ASA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (W, K/H,SS) GALV. STEEL. APPLY NAILS SPECIFIED IN TPI-2002, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304. 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.

TC LL	20.0 PSF	REF R487-- 52697
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321070
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137782
DUR.FAC.	1.25	
SPACING	24.0"	
DRFF- 1TPE487_201		

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B1, B5 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.

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.11" due to live load and 0.18" due to dead load.

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

2 COMPLETE TRUSSES REQUIRED

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

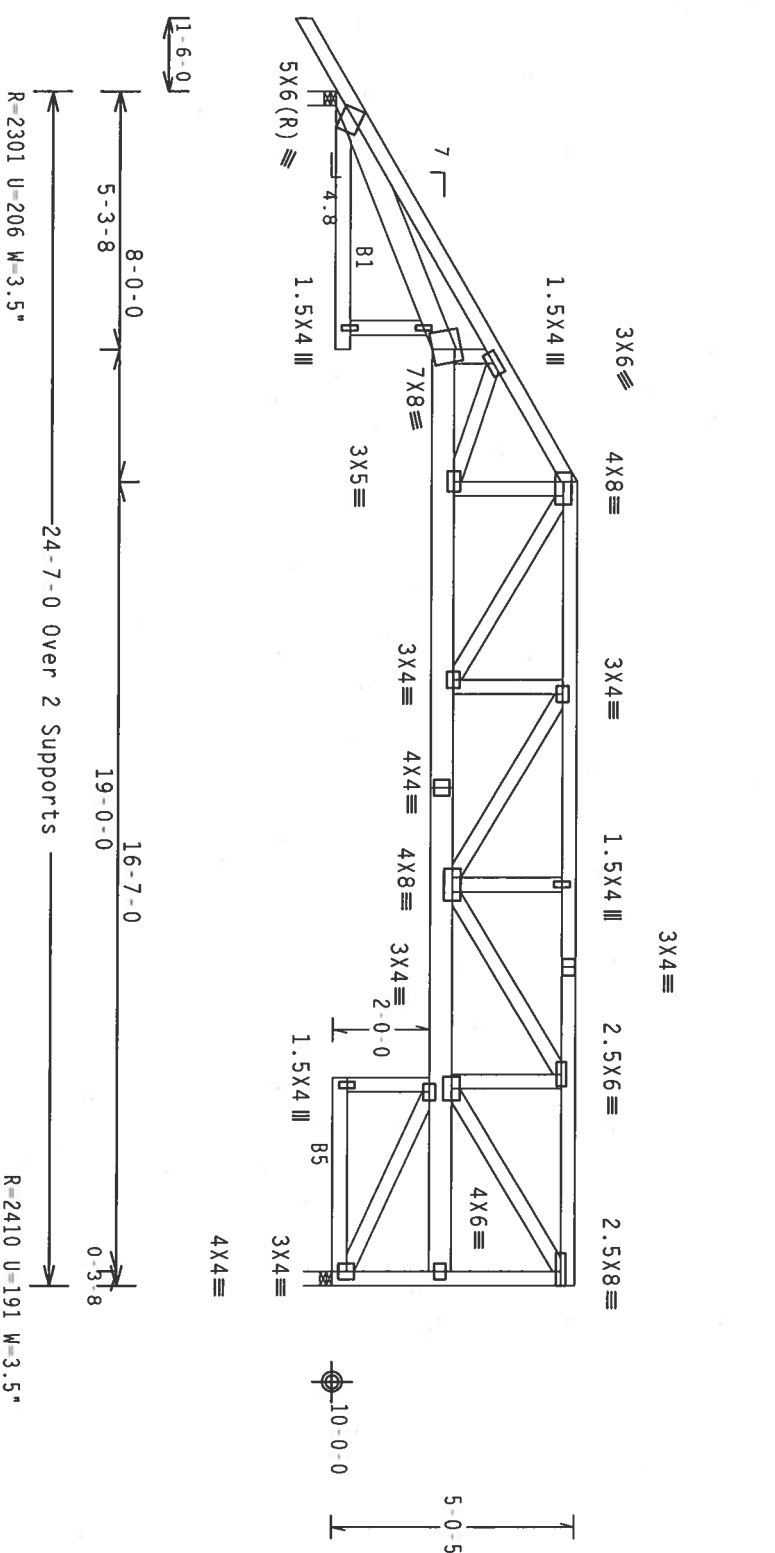
Top Chord: 1 Row @12.00" o.c.

Bot Chord: 1 Row @12.00" 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.
#1 hip supports 8-0-0 jacks W/2 panel TC and no end vert.

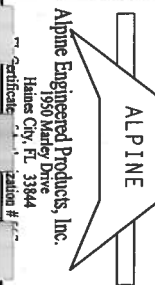


PLT TYP. Wave

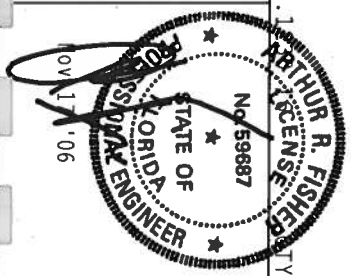
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REPAIRS TO TRUSSES MUST BE APPROVED BY THE TRUSS MANUFACTURER. (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, WILKES BARRE, PA 18201) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TRUSSES OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/60 (W. K/H/SS) 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 BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
Haines City, FL 33844
1950 Marley Drive
Certificate of Designation # 171

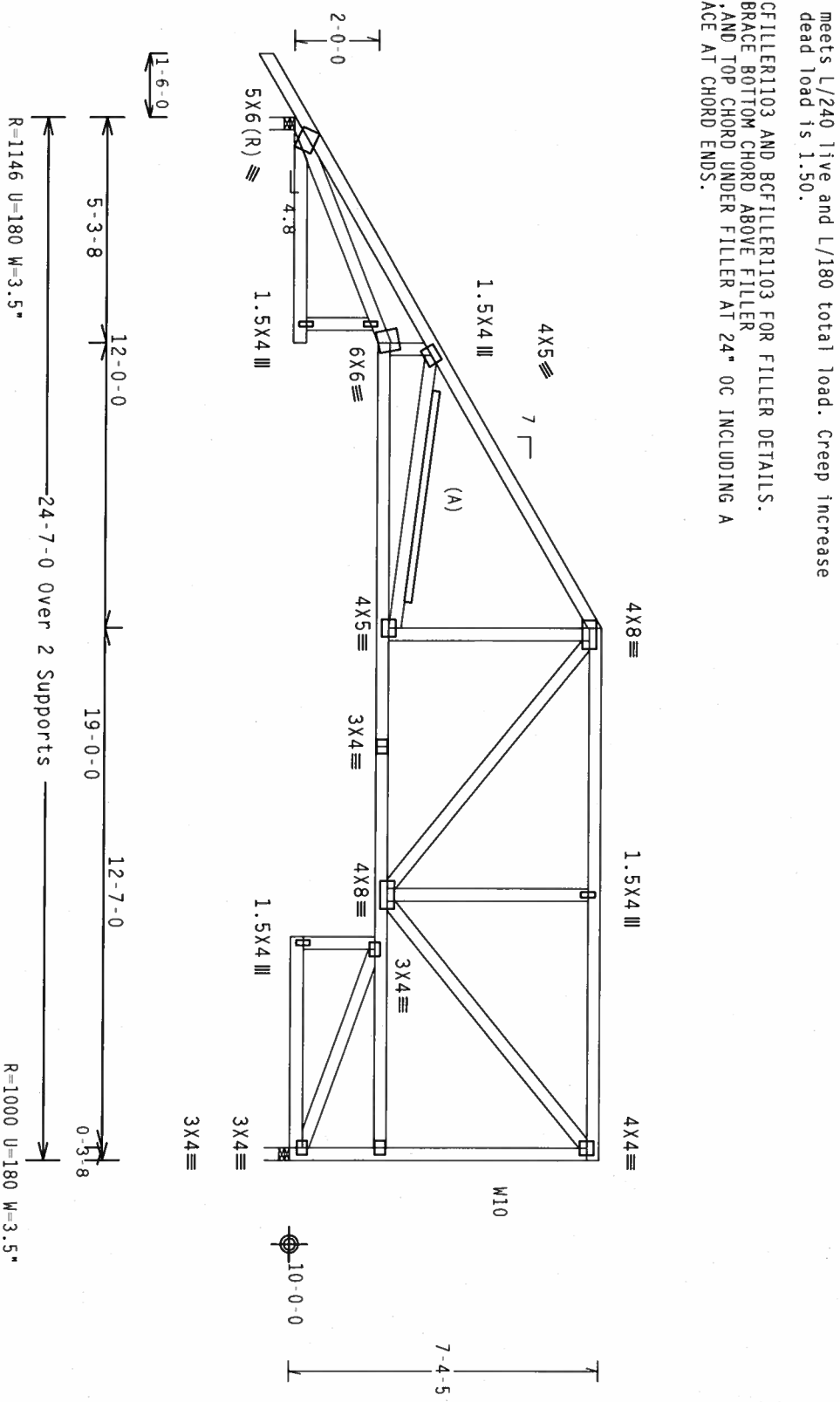


FL	/4	/- /R	Scale = .25"/ft.
TC LL	20.0 PSF	REF R487-- 52698	
TC DL	10.0 PSF	DATE 11/17/06	
BC DL	10.0 PSF	DRW HCUR487 06321140	
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	40.0 PSF	SECN- 137233	
DUR.FAC.	1.25		
SPACING	24.0"		

JBFF- 1TPE487_201

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 : W10 2x4 SP #2 Dense:
Wind reactions based on MFRS pressures.
Calculated horizontal deflection is 0.13" due to live load and 0.20" due to dead load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.
SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" O.C. INCLUDING A LATERAL BRACE AT CHORD ENDS.

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

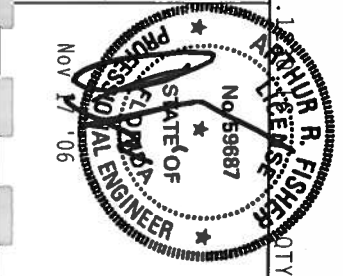


PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1
QTY:1 FL/-/4/-/-/R/-
Scale = .25"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO THE TPI-2002 (STD) TRUSS DESIGN SPECIFICATIONS, PUBLISHED BY THE TRUSS ASSOCIATION, 218 NORTH LEE STREET, 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-2002 (STD) TRUSS DESIGN SPECIFICATIONS, PUBLISHED BY THE TRUSS ASSOCIATION, 218 NORTH LEE STREET, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE
Alpine Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certificate of Designation # 1000

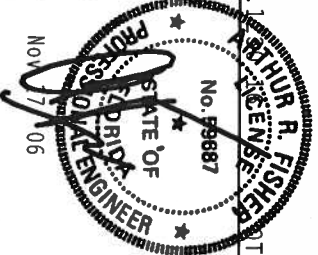


TC LL	20.0 PSF	REF	R487- 52699
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321117
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEGN	137203
DUR. FAC.	1.25		
SPACING	24.0"	URFE	1T2E487_201

Right end vertical not exposed to wind pressure.



Indianapolis, IN 46204



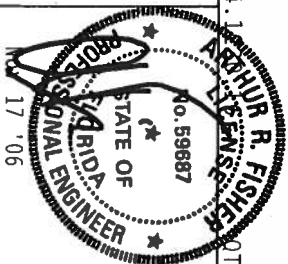
TC LL	20.0 PSF	REF	R487 - - 52700
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	H05R487 06321133
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137195
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2F487 201

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.



DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52701
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321104
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137211
DUR.FAC.	1.25		
SPACING	24.0"	JRF.F.	1T2F487 Z01

SEE DWGS TCFILLER103 AND BCFILLER103 FOR FILLER DETAILS.
LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" OC INCLUDING A
LATERAL BRACE AT CHORD ENDS.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

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

2011-12-15 14:15:15

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

Scale = .1875"/Ft.

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

PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI CONNECTOR PLATES ARE MADE OF 2018/15CA (4 W/5/16) ASTM A563 GRADE 40/50 (4 W/5/16) C14

CONNECTION PLATES SHALL HAVE A MINIMUM THICKNESS OF 20/10/1000 (M.M./IN./K) AS PER IS 8009 (M.M./IN./K) 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 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 THE REMAINING TRUSS IS THE USER'S RESPONSIBILITY.

DESIGN SHOWN. THE SOLIDITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/IFP 1 SEC. 2.



A circular professional engineer seal for Arthur R. Fisher, State of Florida, No. 59687. The seal features the text "ARTHUR R. FISHER" at the top, "STATE OF FLORIDA" in the center, and "PROFESSIONAL ENGINEER" at the bottom. A star is positioned at the bottom center. The number "No. 59687" is on the right, and "No. 17 '06" is on the left. A handwritten signature "A. R. Fisher" is written across the seal.

TC LL	20.0 PSF	REF	R487 - 52702
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321134
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137187
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2F487_201

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

Wind reactions based on MMFRS pressures.

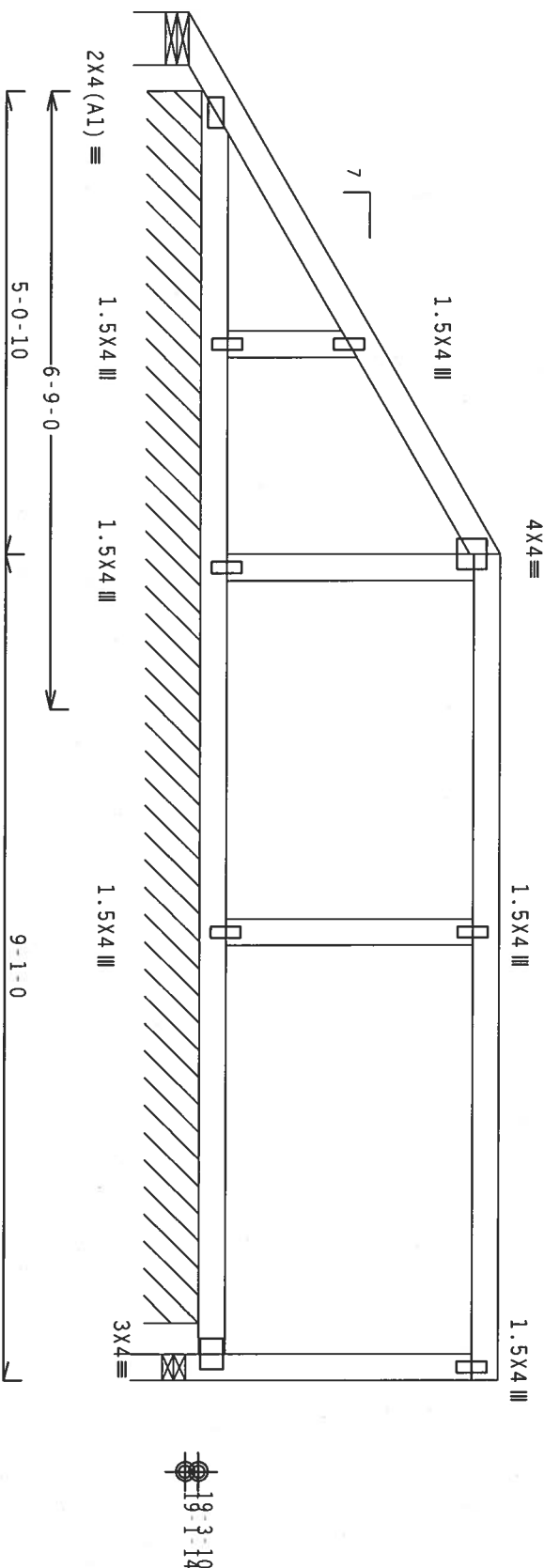
In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACK0405 or PIGBACK0405 for piggyback
details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind 20.88 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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

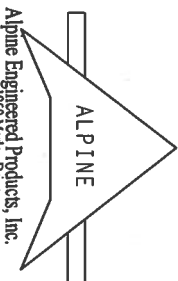


PLT TYP. Wave

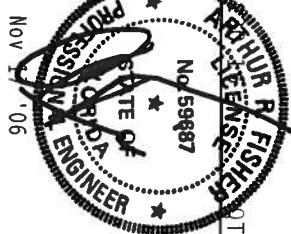
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCST (GOOD PRACTICES) FROM THE NATIONAL TRUSS COUNCIL OF AMERICA, 6300
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICK (GOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, 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/AS) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (W. K/N/SS) GALV. STEEL. ALPINE
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEA AS OF TPI-2002 SEC.3. A SEAL ON THIS
DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



QTY:1 FL/-/4/-/-/R/-

Scale =.5"/ft.

TC LL	20.0 PSF	REF R487-- 52703
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321050
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137357
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T2F487_201

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

Wind reactions based on MFRS pressures.

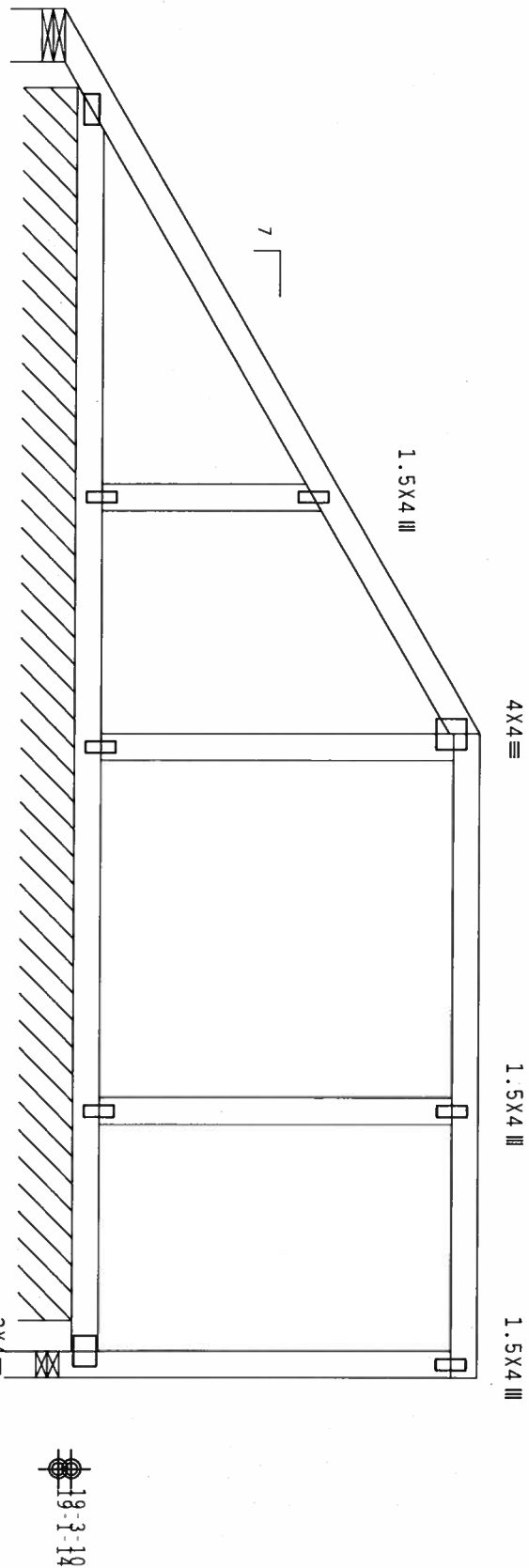
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.47 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



2x4 (A1) ≡ 1.5x4 III 1.5x4 III 1.5x4 III 1.5x4 III 3x4 ≡

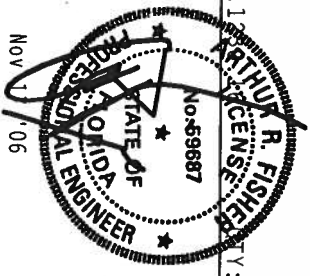
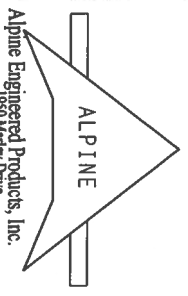
6-9-0 7-0-10 15-0-0 over 3 supports 7-1-0

R=70 U=180 W=6.946
R=74 PLF U=33 PLF W=13-6-0
R=62 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.12 ARTHUR R. FISHER, P.E. LICENSE NO. 59687

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) FOR INFORMATION ON THE PROPER HANDLING OF TRUSSES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314. AND WICK (WOOD TRUSS CONNECT) OF INDIANAPOLIS, 610 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/TS) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-Z. PLATES SHALL BE FOLLOWED BY (1) SHALL BE PER AMER 43 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487- 52704
TC DL	10.0 PSF	DATE	11/17/06
BC DL	2.0 PSF	DRW	HCU8R487 06321038
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SECN-	137362
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TPE487_201

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

Wind reactions based on MFERS pressures.

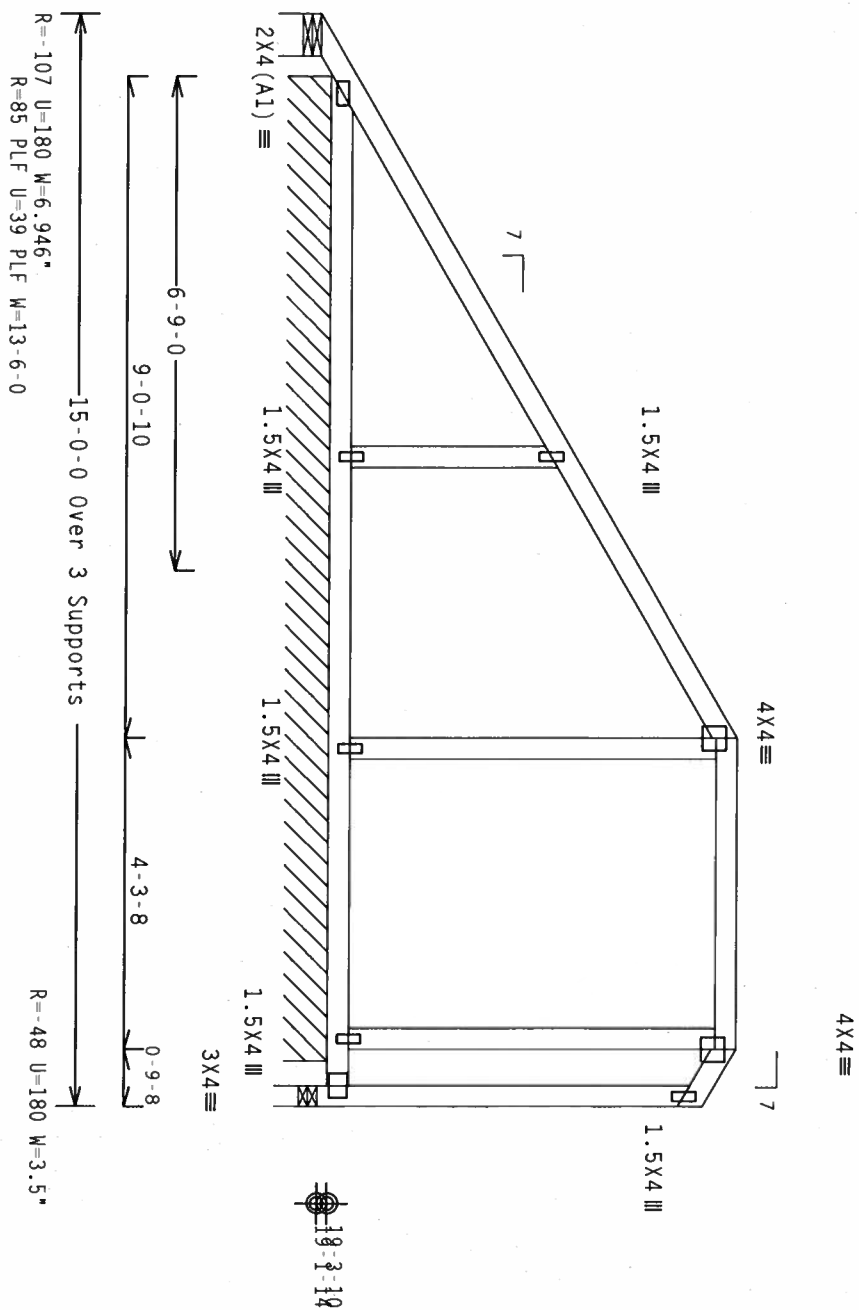
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for Piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.05 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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

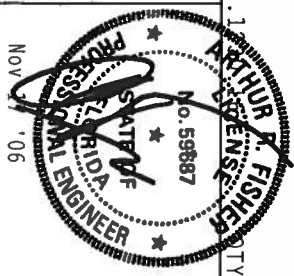
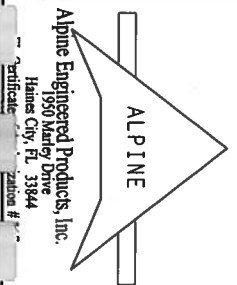


PLT TYP. Wave

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BOLDED) FOR MORE INFORMATION. FROM THE TRUSS STATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND AFTER GOOD TRUSS PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/60 (W. K/H/SS) 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 AMEX AS OF TPI1 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE SIGNATURE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52705
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCURS487 06321032
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SEGN- 137367
DUR. FAC.	1.25	
SPACING	24.0"	

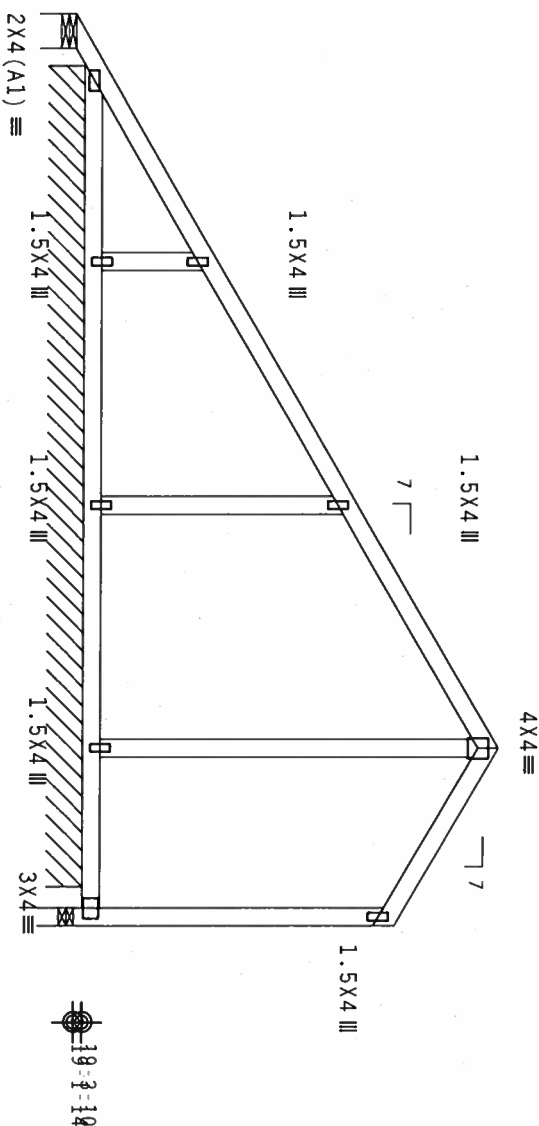
Scale = .375"/ft.
JREF- 1TPE487_201

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.68 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.



15-0-0 Over 3 Supports

R=5 U=180 W=6.946"
R=68 PLF U=31 PLF W=13-6-0

R=71 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

LICENSE

Y:1 FL/-/4/-/-/R/-

Scale = .3125"/Ft.

*****WARNING*****
 THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO GC#1 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRUSS PAPER INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD ROSS COUNCIL OF AMERICA, 6300
 ENTERPRISE LAKE, MONROE, LA 70139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERTY ATTACHED RIGID CEILING.

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

PRODUCTS. INC SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/P) AND TPI. CONSTRUCTION OF THE TRUSS SHALL BE IN ACCORDANCE WITH THE ALTHOUGH THE TRUSS SHALL BE IN ACCORDANCE WITH THE

CONNECTION PLATES MADE OF 20/16/1804 (M, N/NS/KR/AS/IN A553 GRADE, 40/60 (M, K/H/SS) GALV. STEEL, APPLIED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. A SEAL ON THIS SIDE, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THIS DESIGN.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

ALPINE

1920 Manley Drive
Haines City, FL 33844
Certification # 552

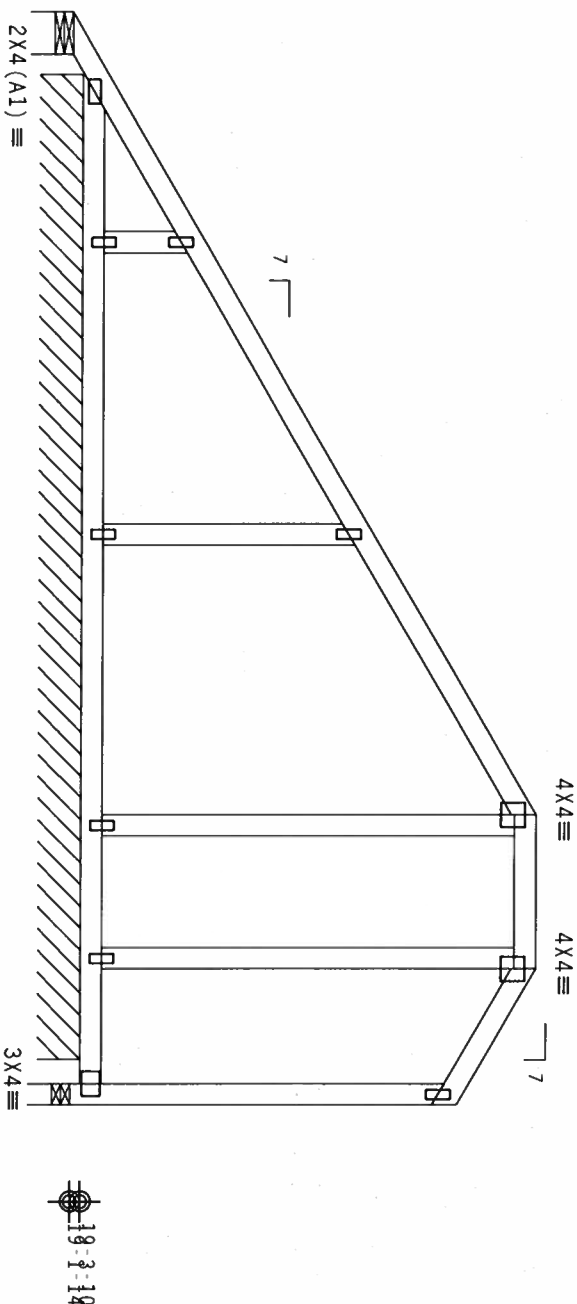
TC LL	20.0 PSF	REF	R487-- 52706
TC DL	10.0 PSF	DATE	11/17/06
BC DL	2.0 PSF	DRW	HCUSR487 0632104
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEON-	13/372
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T2E487_201

JRFF- 1T2F187_Z01

Wind reactions based on MMFRS pressures.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.



15-0-0 Over 3 Supports
R=19 U=180 W=6.946" R=51 U=180 W=3.5"

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: $TPI-2002(STD)/FBC$

PLT TYP. Wave

WARNING
THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
*REFER TO DC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PAPER INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD JOINT COUNCIL OF AMERICA, 6500
ENTERPRISE LANE, MOJOHIN, MI 48139) 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.

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/PFA) AND TPI.

CONNECTION PLATE MADE OF 20/18/1004 (N.H.53/K) ASS3 GRADE 40/60 (N₂, K/H.55) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A. APPLICATION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN A308 TRILL 2002 SEC 3. A SEAL ON TRUSS

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.

Scale = .375"/Ft.

Scale = .375"/Ft.

TC LL	20.0 PSF	REF R487-- 5270
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TC DL	10.0 PSF	DATE	11/17/06
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BC PI	20 PSE	DBH	HC115DA87	0622210
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[illegible]

BUCL	0.0	PSF
HC-ENG	JB/AF	

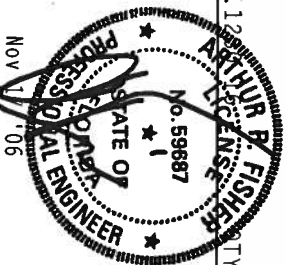
TOT.LD.	32.0 PSF	SEQN -	137377
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DUR.FAC.	1.25
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SPACING	24.0"	JRFF - 1T2EA87-20
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Alpine Engineered Products, Inc.
 1950 Military Drive
 Gaines City, FL 32644
 Telephone: 904/352-1100
 Telex: 521000 Alpine



Haines City, FL 33844
Certificate of Registration # 555

Wind reactions based on MMFRS pressures.

110 mph wind, 21.78 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



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

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

QTY:1 EL / - / A / - / - / B / -

Scale = 275" / Ft +

*****WARNING*****
 THESE REQUIRE EXTREME CARE IN FABRICATION, UNLOADING, SHIPING, INSTALLING AND BRACING
 REFER TO DCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL INSTITUTE OF
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND VICTA GOOD PAPER COMPANY OF
 ENTERPRISE LANE, MAJORS, IN 53719 FOR SAFETY PRACTICES AND PICTS TO PERFORMING THESE FUNCTIONS. UNLESS
 OTHERWISE INDICATED FOR 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

TRUSS IN CONFORMANCE WITH TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TP1. ALPINE

CONNECTOR PLATE/ANNE MADE OF 201/18/1604 (W,H/SS/K) ASTM A553 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF BLADES FOLLOWING BY THE CLIENT OF THE QUALITY OF THE CONNECTIONS AND THE QUALITY OF THE

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR AND BUILDING TO THE RECOMMENDATION OF THE TRUSS COMPONENTS ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DRAWING INDICATES A SEAL ON THIS

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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ARTHUR R. FISHICK
PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 59687
Nov 17 '06

FL/-/4/-/-/R/-		Scale = .375"/ft.	
TC LL	20.0 PSF	REF	R487-- 52708
TC DL	10.0 PSF	DATE	11/17/06
BC DL	2.0 PSF	DRW	HCUSR487 06321047
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEON-	137382
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	172F487-201

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

Wind reactions based on MFERS pressures.

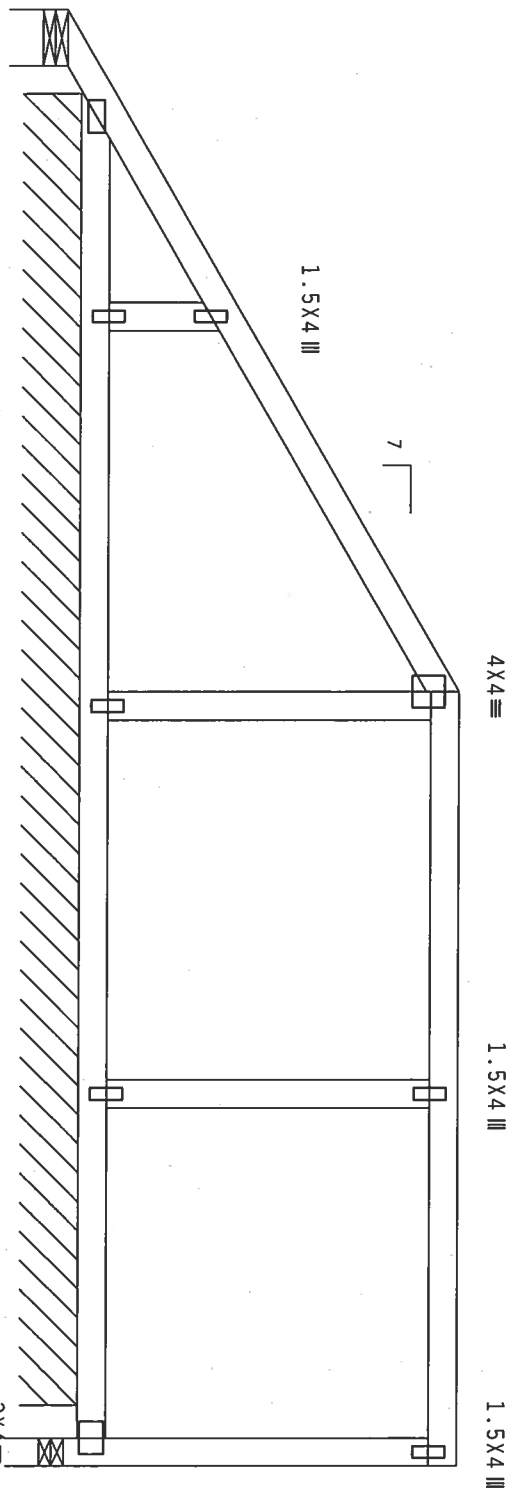
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.20 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



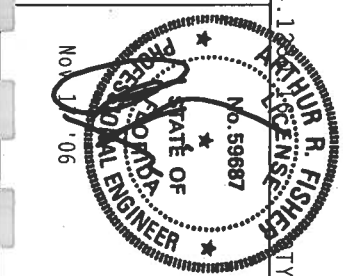
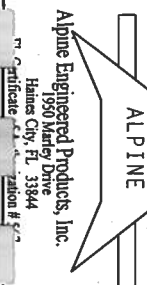
18-3-18

PLT TYP. Wave

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING FOR INFORMATION: 1. HANDBOOK OF TRUSS PLATE INSTALLATION, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. 2. AISC 160A, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z. 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: ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S/E) ASTM A553 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SEALING OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52709
TC DL	10.0 PSF	DATE	11/17/06
BC DL	2.0 PSF	DRW	HCUSR487 06321046
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	32.0 PSF	SEGN-	137388
DUR. FAC.	1.25		
SPACING	24.0"	URFF-	1T2F487_Z01

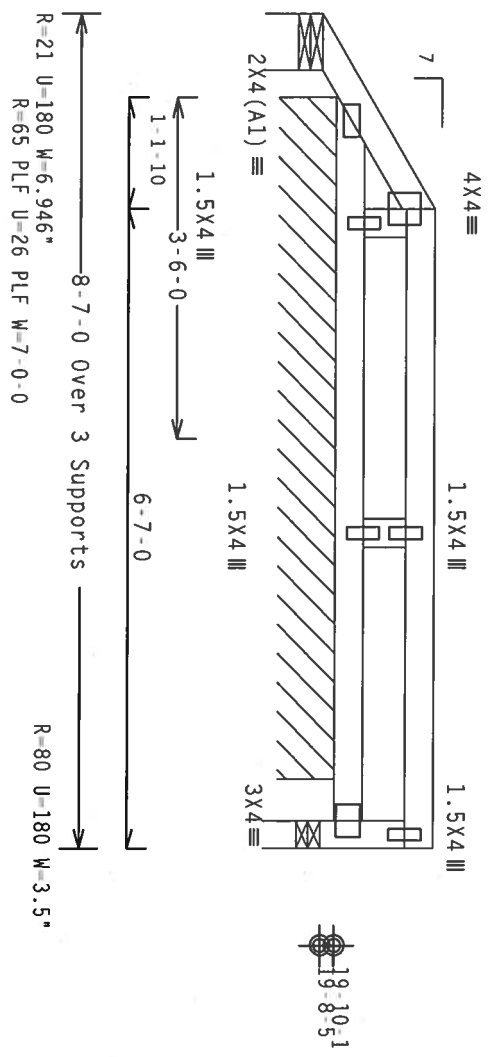
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACK0405 or PIGBACK0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

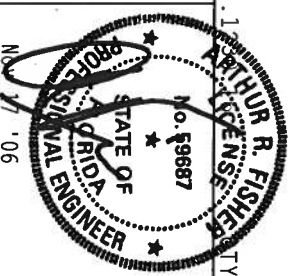
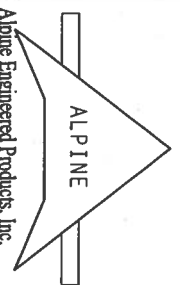
110 mph wind, 20.28 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SHEET INFORMATION) PUBLISHED BY THE RCSI, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WITH GOOD TRUSS COMPANY, 620 ENTERPRISE LANE, 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 AREA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/1604 (W/H/SS/RS) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY FOR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52710
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUR487 06321055
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SECN- 137408
DUR. FAC.	1.25	
SPACING	24.0"	DBEF- 1T2E/87_201

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

Wind reactions based on MFRS pressures.

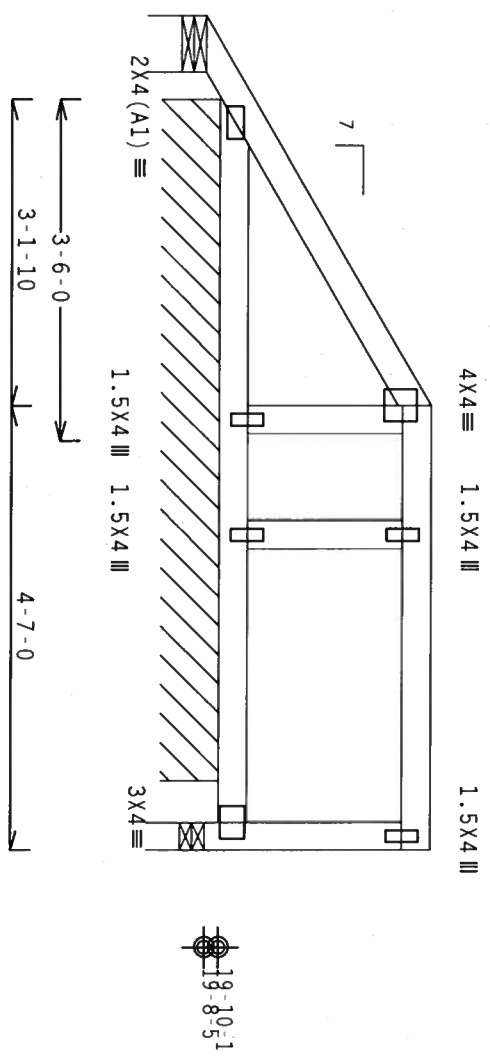
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.86 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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



R=22 U=180 W=6.946"
R=70 PLF U=30 PLF W=7-0-0
R=87 U=180 W=3.5"

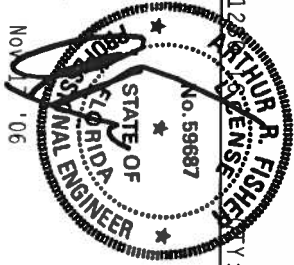
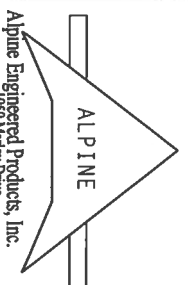
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (0001) FOR TRUSS CONSTRUCTION. TRUSS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH GOOD TRUSS 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-2002 (STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MD5 (NATIONAL DESIGN SPEC. BY AREA) AND TPI-2002 (STD). ALPINE CONNECTOR PLATES ARE MADE OF 2018/1604 (W.N/S/S) ASTM A553 GRADE 40/50 (W, K/H, 55) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52711
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321058
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137404
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

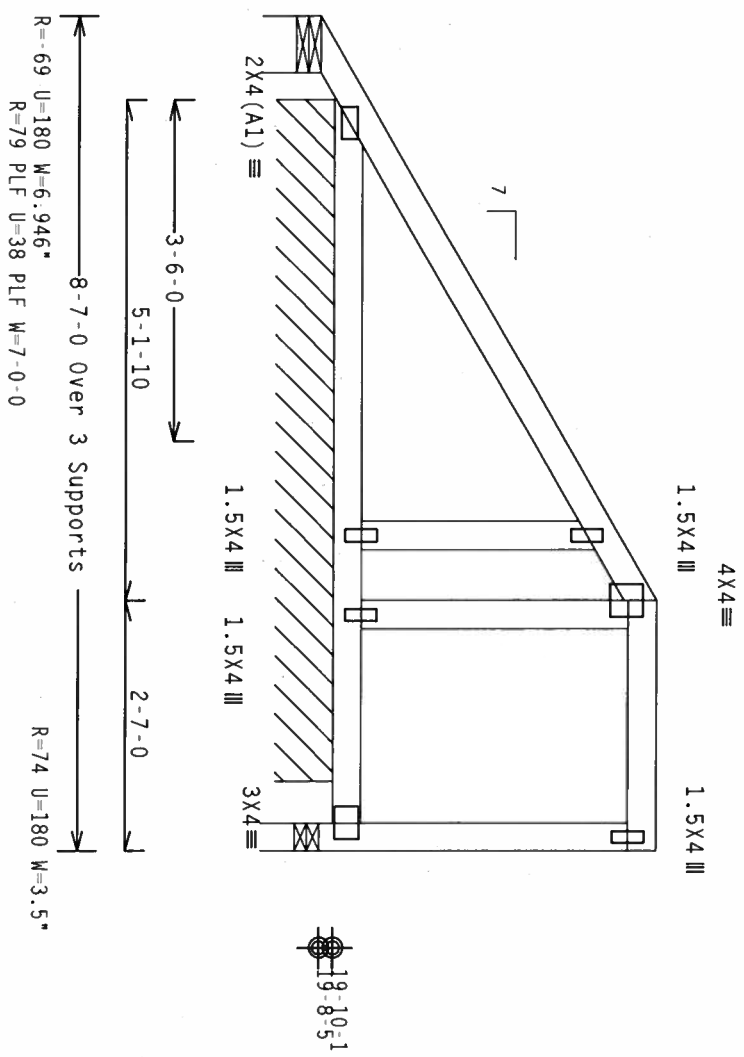
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.
Right end vertical not exposed to wind pressure.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



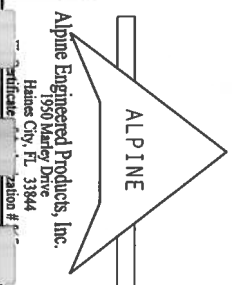
PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

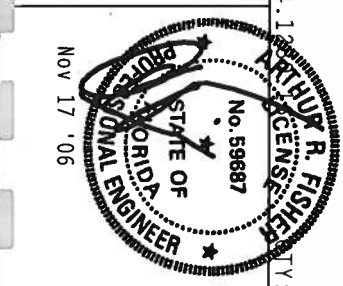
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESIST (R) AND REACT (R) FOR TRUSS PLATE INSTALLATION. 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WELD BOND TRUSS DESIGN PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS 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 MDX (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 5018/160A (W/H/SS/S) ASTM A653 GRADE 40/60 (W, K/H/SS) 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 TPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
Haines City, FL 33844
1950 Marley Drive
Certificate # 1234567890



TC LL	20.0 PSF	REF R487-- 52712
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUR8487 06321059
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SEQN- 137414
DUR. FAC.	1.25	
SPACING	24.0"	

Scale = .5"/Ft.

JRFF- 1T2F487_Z01

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

Wind reactions based on MWFRS pressures.

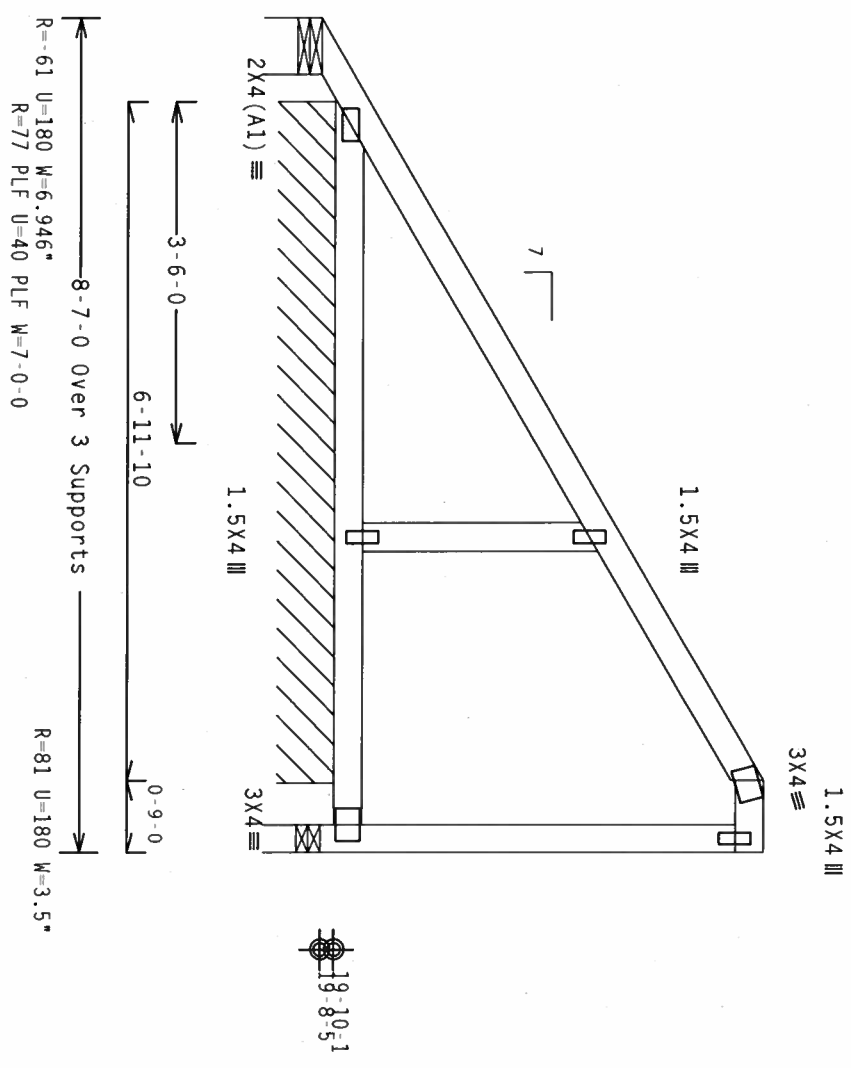
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Right end vertical not exposed to wind pressure.

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

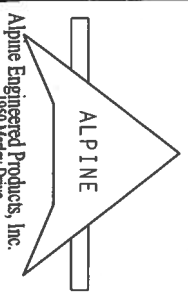


PLT TYP. Wave

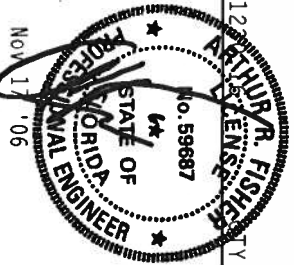
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NCTA (NATIONAL TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, 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 COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/35/SI) ASTM A653 GRADE 40/60 (W. K/H-55) GALV. STEEL. APPLY MAXIMUM DESIGN LOAD OF 2000 LBS. UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.2. MAXIMUM DESIGN LOAD OF 2000 LBS. UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.2. 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 Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certificate # 1717



TC LL	20.0 PSF	REF R487-- 52713
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUR487 06321060
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SEQN- 137420
DUR. FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_201

Scale =.5"/Ft.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

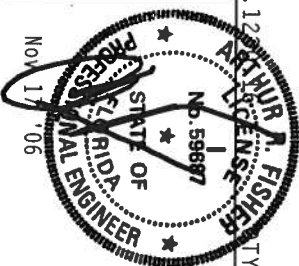


19-235

R=20 U=180 W=6.946*

Scale = .3125" / Ft.

MALES CITY, FL 33844
 zation #



TC LL	20.0 PSF	REF	R487 - 52714
TC DL	10.0 PSF	DATE	11/17/06
BC DL	2.0 PSF	DRW	HCUSR487 06321080
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEQN-	137628
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_Z01

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

110 mph wind, 20.35 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

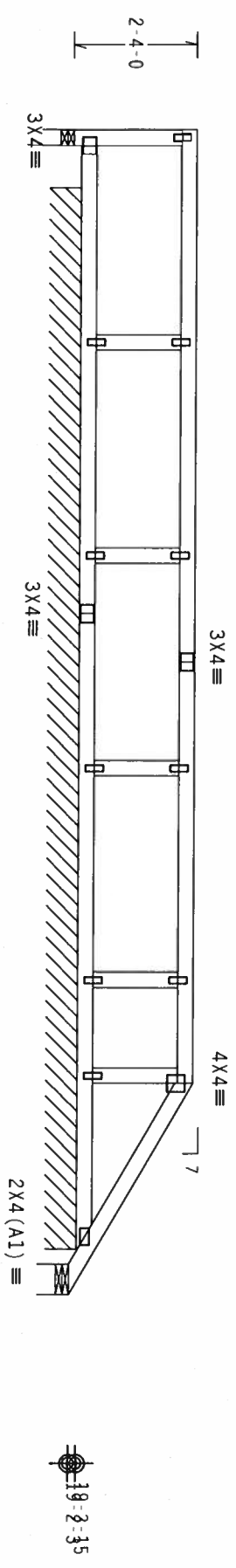
Left end vertical not exposed to wind pressure.

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

Refer to DWG PIGBACK0405 or PIGBACK0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25
TC - From 63 PLF at 0.00 to 63 PLF at 21.96
BC - From 4 PLF at 0.00 to 4 PLF at 21.96
Wind reactions based on MMFRS pressures.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



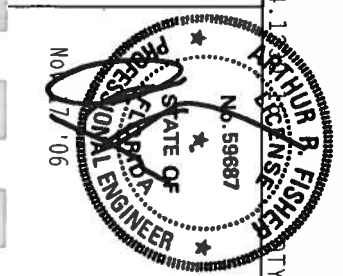
Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY TECHNOLOGY) PUBLISHED BY THE NATIONAL ASSOCIATION OF BUILDING OFFICIALS, 6500 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH (NABO) TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE
Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate # 77-06



TC LL	20.0 PSF	REF R487- 52715
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321078
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN- 137635
DUR.FAC.	1.25	
SPACING	24.0"	
JPRFF- 1T2F487_Z01		

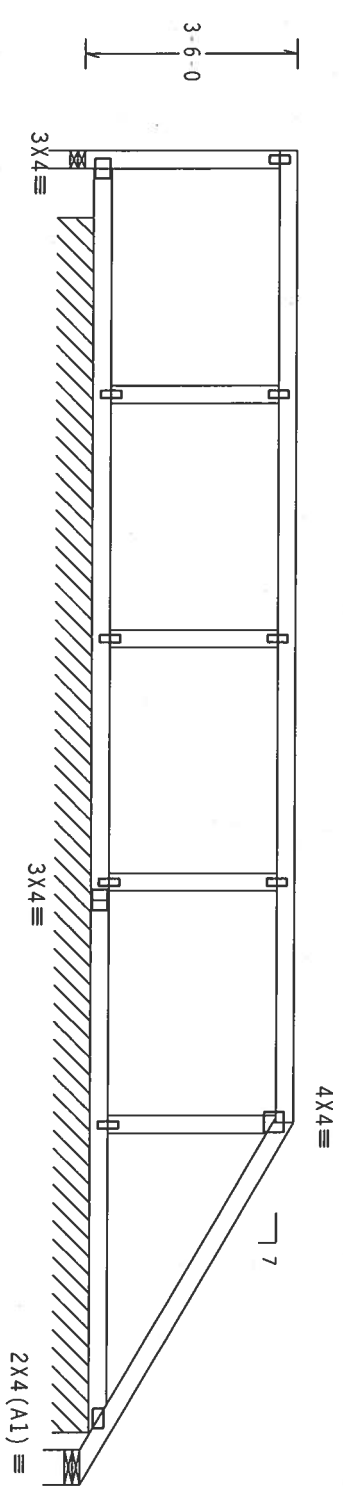
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Left end vertical not exposed to wind pressure.

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.93 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



19-2-35

Note: All Plates Are 1.5x4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1
R-104 U=180 W=3.5"
R-73 PLF U=27 PLF W=20-0-0
R-117 U=180 W=6.946"

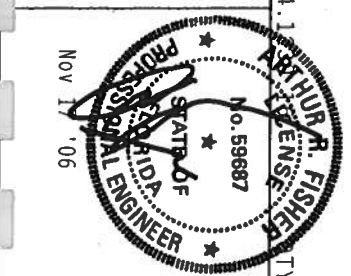
PLT TYP. Wave Scale = .3125"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, UNLOADING AND BRACING. REFER TO BCST (BUILDING CODES) AND TPI-2002(STD)/FBC FOR ALL TRUSS CONSTRUCTION. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002(STD)/FBC OR FABRICATING, HANDLING, SHIPPING, UNLOADING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AEP/A) AND TPI. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TP1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certification # 11771

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, UNLOADING AND BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AEP/A) AND TPI. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 160C, 160D, 160E, 160F, 160G, 160H, 160I, 160J, 160K, 160L, 160M, 160N, 160O, 160P, 160Q, 160R, 160S, 160T, 160U, 160V, 160W, 160X, 160Y, 160Z. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TP1 SEC. 2.



TC LL	20.0 PSF	REF R487-- 52716
TC DL	10.0 PSF	DATE 11/17/06
BC DL	2.0 PSF	DRW HCUSR487 06321081
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	32.0 PSF	SEQN- 137640
DUR. FAC.	1.25	
SPACING	24.0"	

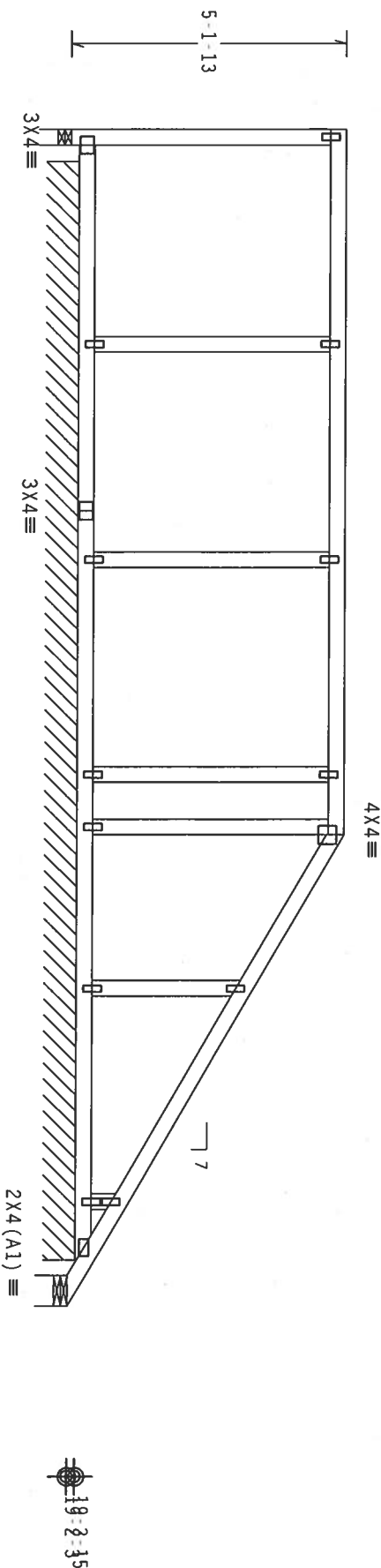
JRFF- 1T2F487_201

110 mph wind, 21.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Left end vertical not exposed to wind pressure.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



R=95 U=180 W=3.5^m

R=65 PLF U=23 PLF W=20-6-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

7.24.1230 LICENSE EXPIRY:1

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

Scale = .3125"/Ft.

WARNING
 REUSERS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRUSS PANE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
 ENTERPRISE LANE, MAJORS, MI 53179) 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 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 ACPA) AND TPI A1916F

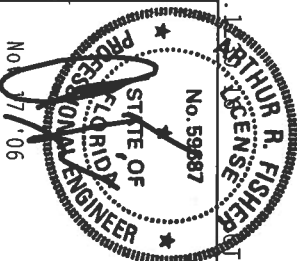
Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844

SPECIAL LOADS			
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)			
TC - From	63 PLF at 0.00 to	63 PLF at 21.96	
BC - From	4 PLF at 0.00 to	4 PLF at 21.96	

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



TC LL	20.0 PSF	REF	R487 - - 52717
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321115
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137541
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2F487_201

Wind reactions based on MMFRS pressures.
#1 hip supports 7-0-0 jacks with no webs

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



Design Crit: TPI-2002(STD)/FBC

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

RT & SENSE

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

Scale = .3125" / Ft.

*****WARNING***** THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING TO BEGINS (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (TRUSS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALBANY, GA 31704 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MOJOH, MI 49759 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 TOP CEILING.

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

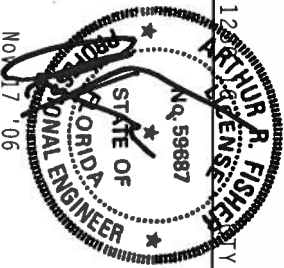
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AISC) AND TPI TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING CONNECTOR PLATES ARE MADE OF 70,19,18,15,14 GA. U.S. STEEL. ASTM A663, GRADE 50/60. Q195, Q235, Q275, Q355, Q460.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. CREDIT FOR THE THREE COMPONENTS OF THE DESIGN SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3.
A SEAL ON THIS PLATE TO EACH PLATE CROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.

1950 Marley Drive
Haines City, FL 33844
Certificate of Registration # 544

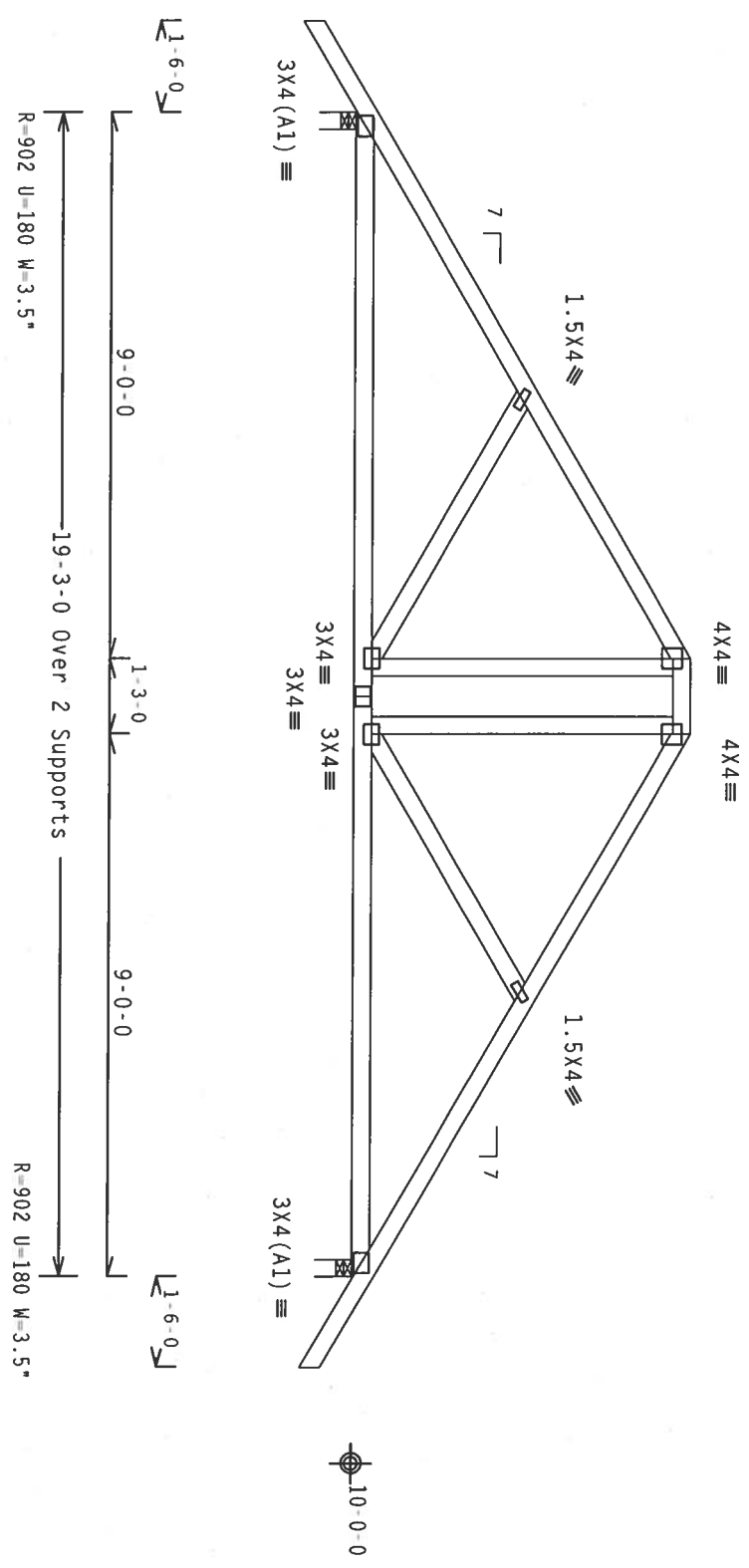


TC LL	20.0 PSF	REF	R487-- 52718
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06521054
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	17479
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487 Z01

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

Wind reactions based on MWFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind; 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

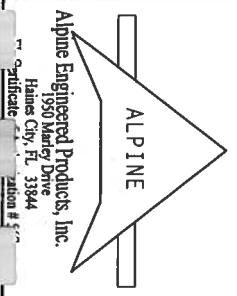
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.24.12

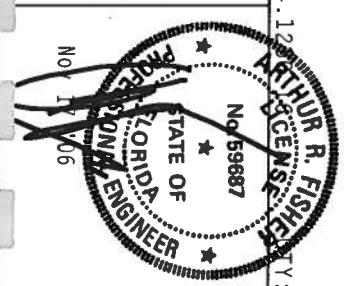
Scale = .3125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, SHIPPING, INSTALLING AND BRACING. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1604 (W.N/55/K) ASTM A653 GRADE 40/50 (W. K/M.55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TP11-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/1711 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 & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1604 (W.N/55/K) ASTM A653 GRADE 40/50 (W. K/M.55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TP11-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/1711 SEC. 2.



ALPINE
ENGINEERED
PRODUCTS, INC.
1950 Marley Drive
Haines City, FL 33844
Telephone: 888-248-5555
Fax: 888-248-5556
Website: www.alpine-engineered.com

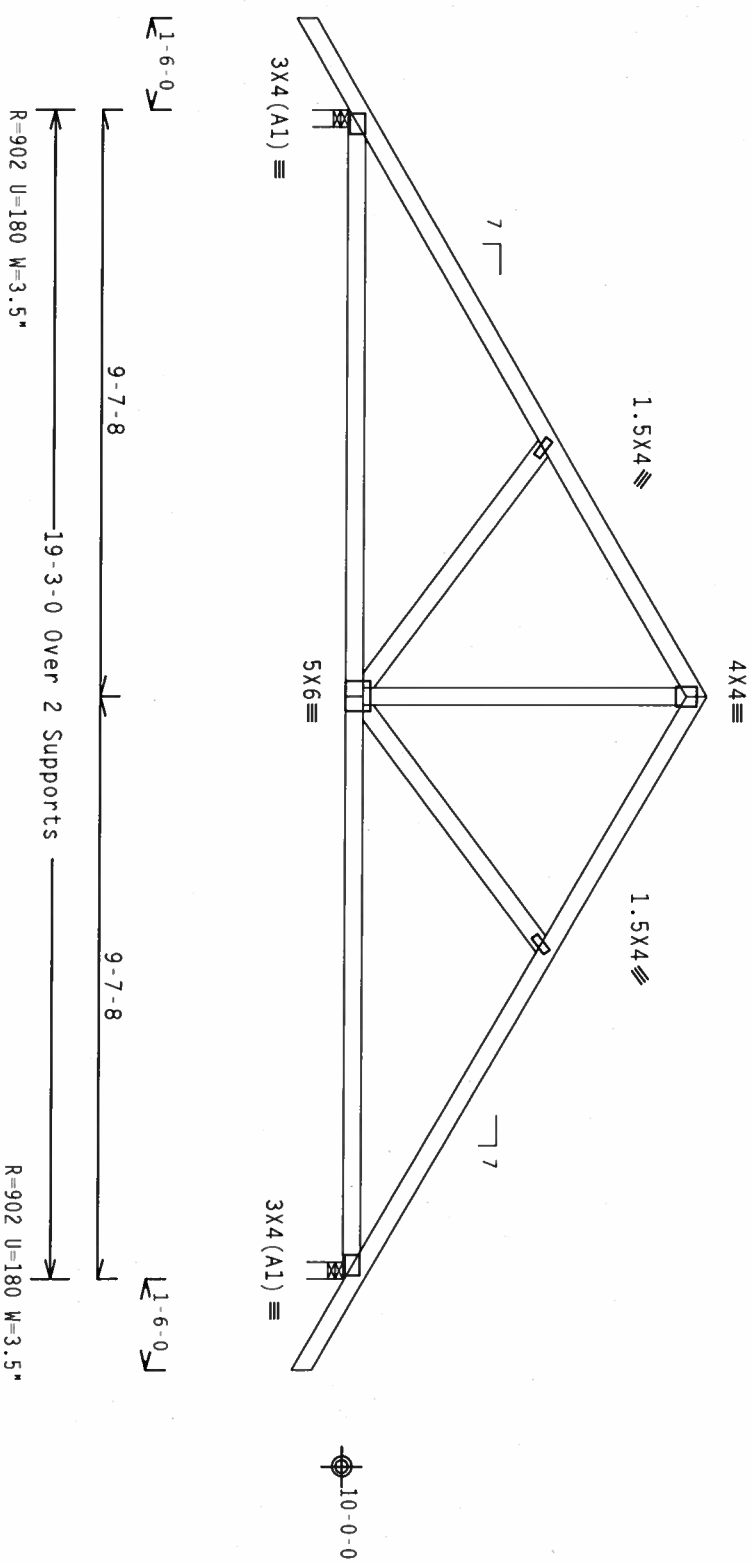


TC LL	20.0 PSF	REF	R487--	52719
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCUSR487	06321061
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT. LD.	40.0 PSF	SEQN-	17483	
DUR. FAC.	1.25			
SPACING	24.0"			

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

Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

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

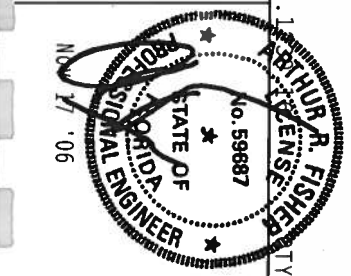
7.24.1

Scale = .3125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI DESIGNATION FOR TRUSS FROM 2231A. PUBLISHED GOOD PRACTICES FOR TRUSS DESIGN, 218 NORTH LEE STREET, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/R) ASTM A653 GRADE 40/60 (W, K/H, SS) 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 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 Marney Drive
Haines City, FL 33844
Indicate location #5



TC LL	20.0 PSF	REF	R487--	52720
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCUSR487	06321063
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT. LD.	40.0 PSF	SEQN-	17490	
DUR. FAC.	1.25			
SPACING	24.0"	URFF	1T2E487_201	

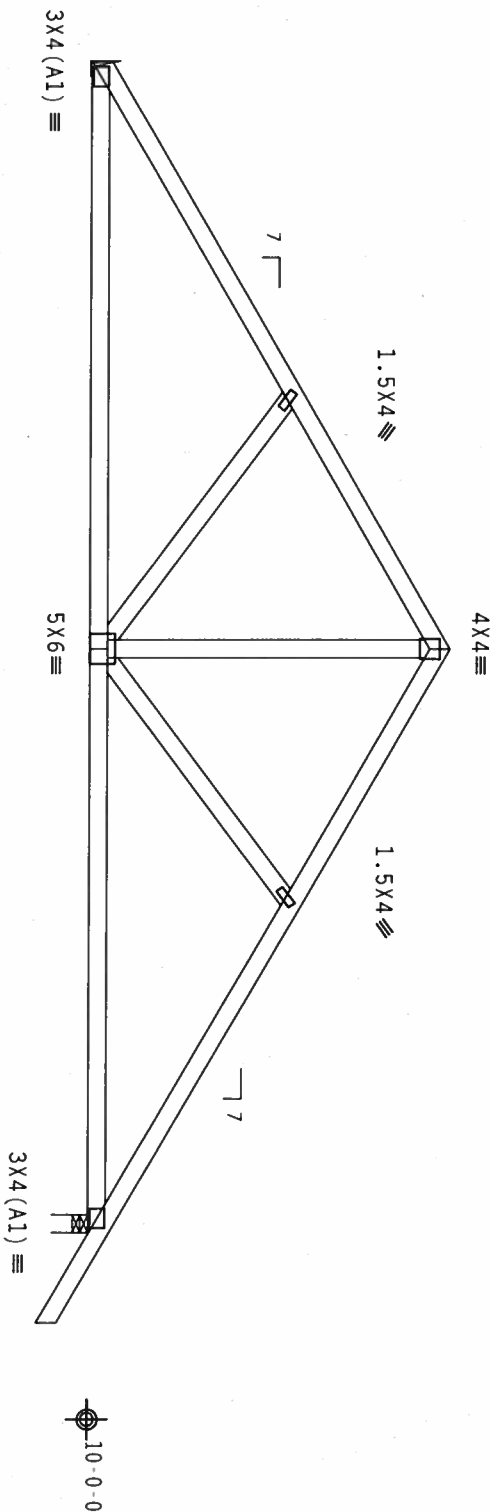
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

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

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



9-7-8 19-3-0 Over 2 Supports 9-7-8
R=795 U=180
R=908 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24

QTY:1 FL/-/4/-/R/-

Scale = .3125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE NATIONAL COUNCIL OF AERIAL TRUSS MANUFACTURERS, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, 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/PA) AND TPI. ALPINE PLATES SPECIFIED ARE MADE OF 20/18/16GA (W/H/SS/R) ASTM A653 GRADE 40/60 (W. & H. 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. UNLESS SPECIFICALLY NOTED, ALL PLATES SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



NOV 1 '06

TC LL 20.0 PSF

REF R487-- 52721

TC DL 10.0 PSF

DATE 11/17/06

BC DL 10.0 PSF

DRW HCUSR487 06321068

BC LL 0.0 PSF

HC-ENG JB/AF

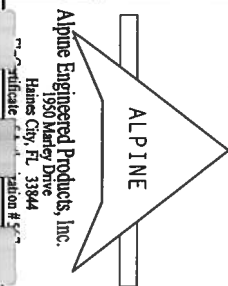
TOT.LD. 40.0 PSF

SECON 17514

DUR.FAC. 1.25

SPACING 24.0"

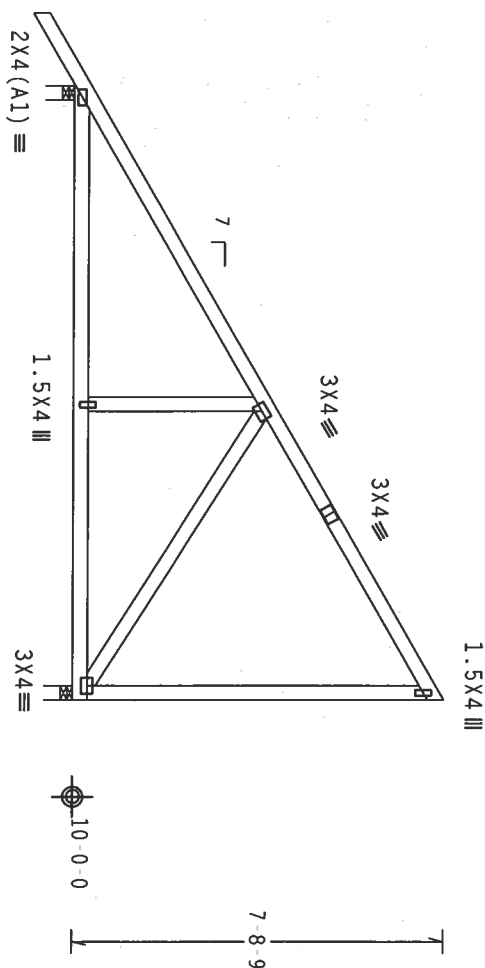
DRFF- 172F487_201



Alpine Engineered Products, Inc.
1950 Manley Drive
Haines City, FL 33844
Telephone: 888-248-6577
Fax: 888-248-6578

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

Right end vertical not exposed to wind pressure.


$$\begin{array}{c} \overline{11-6-11} \\ \overline{0-9-0} \end{array}$$

12-7-4 Over 2 Supports
R=639 U=180 W=3.5" R=511 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

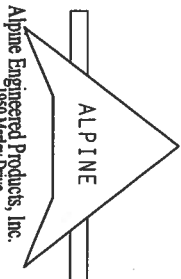
$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1$$

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

Scale = .25"/Ft.

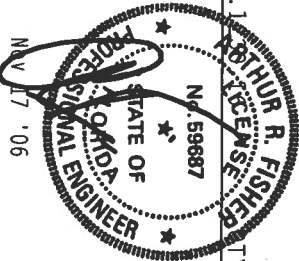
WARNING
BUSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
TO PREVENT DAMAGE TO THE TRUSS. (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IPI (TRUSS PAPER INSTITUTE), 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD ROSS COUNCIL OF AMERICA), 6300
ENTERPRISE LANE, MOJOSSON, MI 52139 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 TOP CEILING.

1. **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 DESIGN IN ACCORDANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND GAT (GENERAL CONNECTOR PLATES ARE MADE OF 2018/1664 (H/A55/25) ASTM A563 GRADE 40/60 (H/ K/41/53) GALV. STEEL. APPLY 1602.2 PLATES TO EACH FACE OF TUSGS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE DESIGN ON THIS DESIGN SHOWN. THE SATISFACTION AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/APT 1 SEC. 2.



Alpine Engineered Products, Inc.
1050 Madison Drive

Haines City, FL 33844
 Certificate of Registration #



FL/-4/-/-/R/-		Scale = .25"/Ft.
TC LL	20.0 PSF	REF R487-- 52722
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321014
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 138013
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x8 SP #1 Dense :B2 2x8 SP SS:
Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 28.208' 1 12" Match Truss
Bearing block to be same size and species as bottom chord.
Refer to drawing CNRBLK1103 for additional information.

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

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

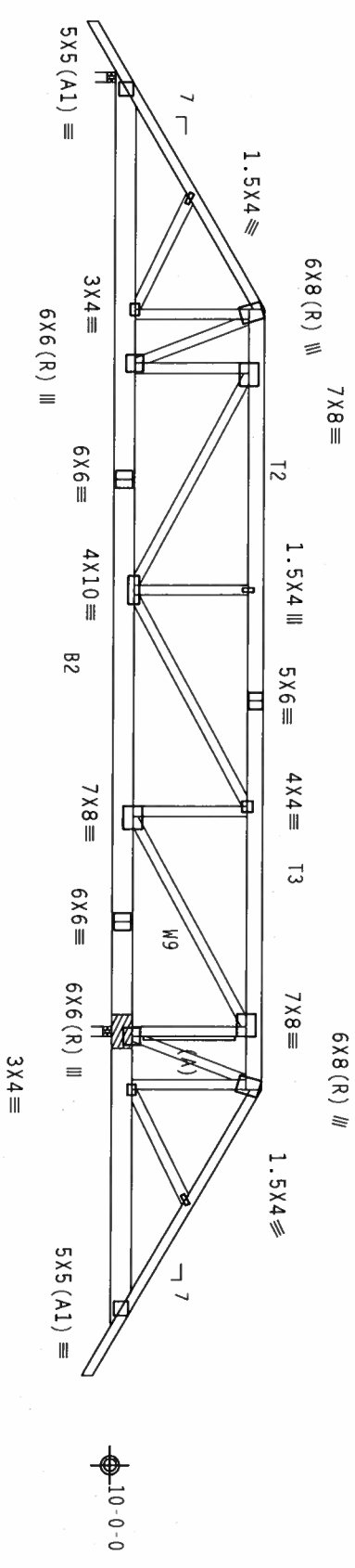
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.

SPECIAL LOADS

TC - From	63 PLF at -1.50 to	63 PLF at 38.58
BC - From	5 PLF at -1.50 to	5 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 37.08
TC - From	5 PLF at 37.08 to	5 PLF at 38.58
TC -	190 LB Conc. Load at 20.02,	22.02, 24.02, 26.02, 28.02
BC -	1604 LB Conc. Load at 19.38	
BC -	82 LB Conc. Load at 20.02,	22.02, 24.02, 26.02, 28.02
BC -	428 LB Conc. Load at 30.08	

Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.



1-6-0
7-0-0
23-1-0
37-1-0 over 2 Supports
1-6-0
7-0-0
R=1851 U=217 W=3.5"
R=5015 U=595 W=3.5"

PLT TYP. Wave

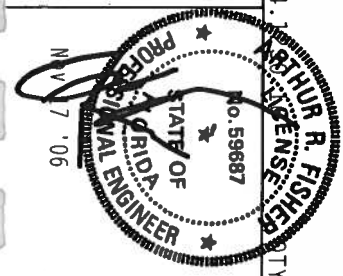
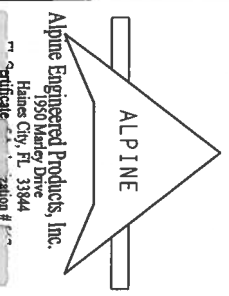
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

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

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS ASSOCIATION OF AMERICA, 6500 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. CONNECTION PLATES ARE MADE OF 3018/1604 (4 W/S/S) ASTM A563 GRADE 40/60 (4, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-Z. DRAPING INDICATES THE DISTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

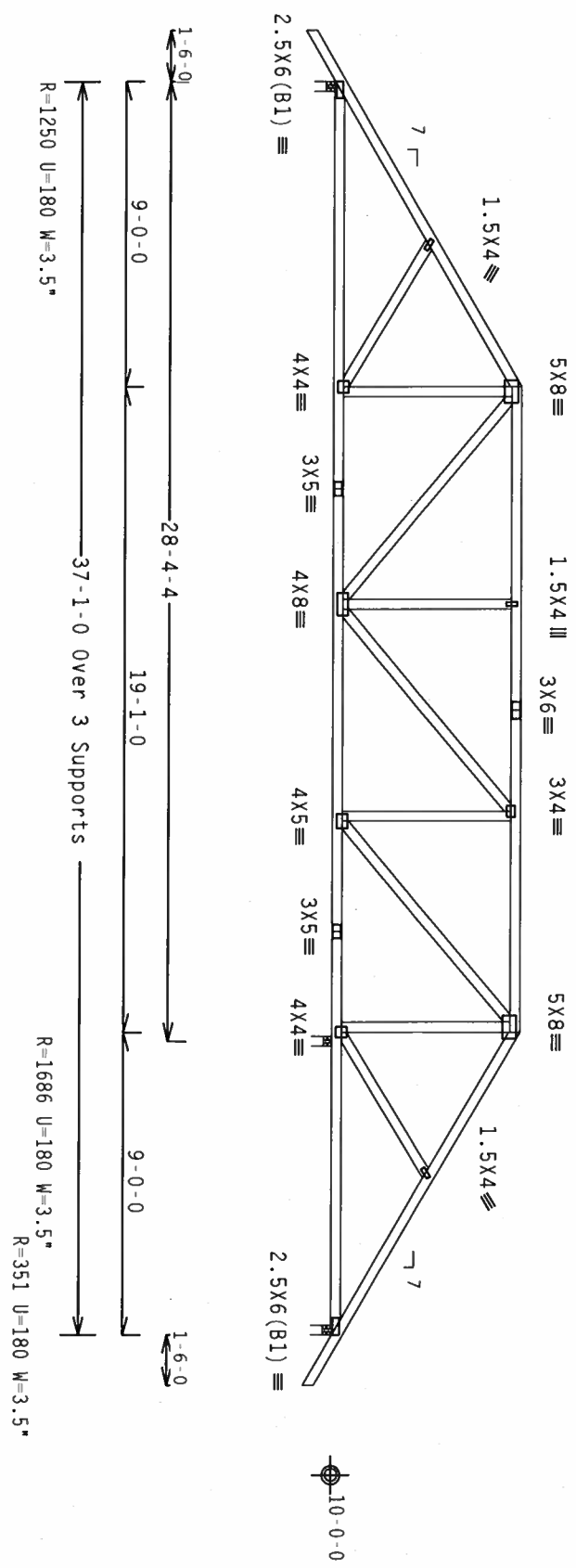


TC LL	20.0 PSF	REF R487-- 52723
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321086
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137622
DUR.FAC.	1.25	
SPACING	24.0"	

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

Wind reactions based on MWFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



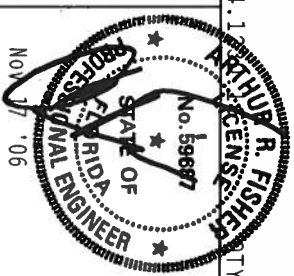
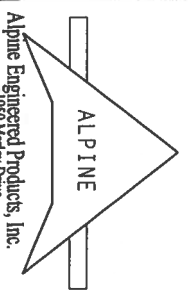
PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO THE TRUSS MANUFACTURER'S INSTRUCTIONS IS REQUIRED. THE TRUSS MANUFACTURER'S INSTRUCTIONS, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND ALL APPLICABLE BUILDING CODES SHALL BE OBSERVED. 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 CONNECTION PLATES ARE MADE OF 2018/1664 (W.H/S/S) ASTM A563 GRADE 40/60 (W, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. THE DESIGNER'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487-- 52724
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321096
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	137615
DUR. FAC.	1.25		
SPACING	24.0"	JRFF-	1T2F487_201

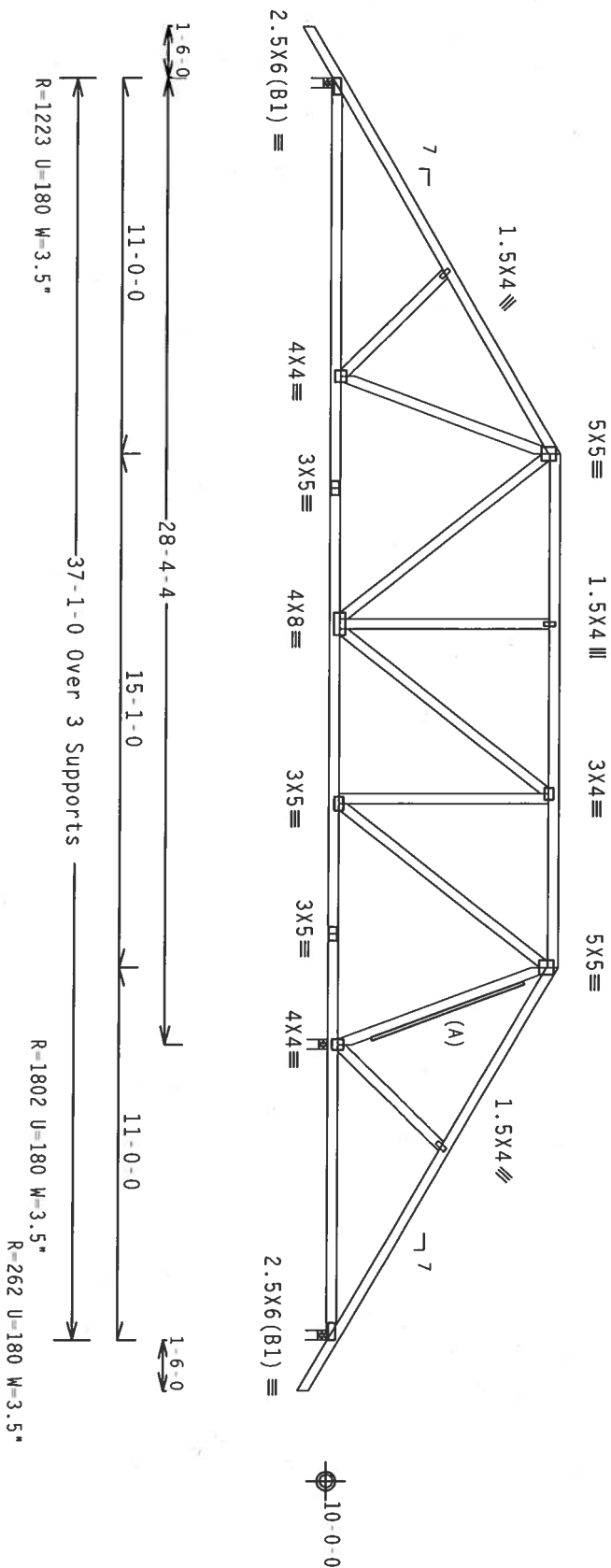
Wind reactions based on MMFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1$$
$$r:1 \quad FL/-/4/-/-/R/-$$

Scale = .1875"/Ft.

*****WARNING*****
 TISSUES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING
 REFER TO BGCI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY FPI (FIBER PAPER INSTITUTE), 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
 ENTERPRISE LANE, MOJOSSIN, MI 52079) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
 OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED RIGID CEILING.

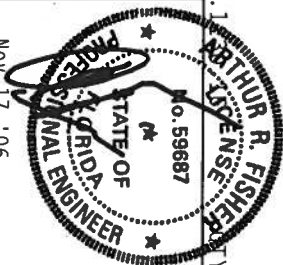
****IMPORTANT****
FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MOD (NATIONAL DESIGN SPEC., BY AIAA) AND TPI (RUSS IN CONFORMANCE WITH TPI); OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING CONNECTOR PLATES MADE OF 2017B/15EFA (U.S. SPEC.) ASTM A270 304/304L (U.S. SPEC.) 304/304L

Alpine Engineered Products, Inc.

Haines City, FL 33844

Certification # _____



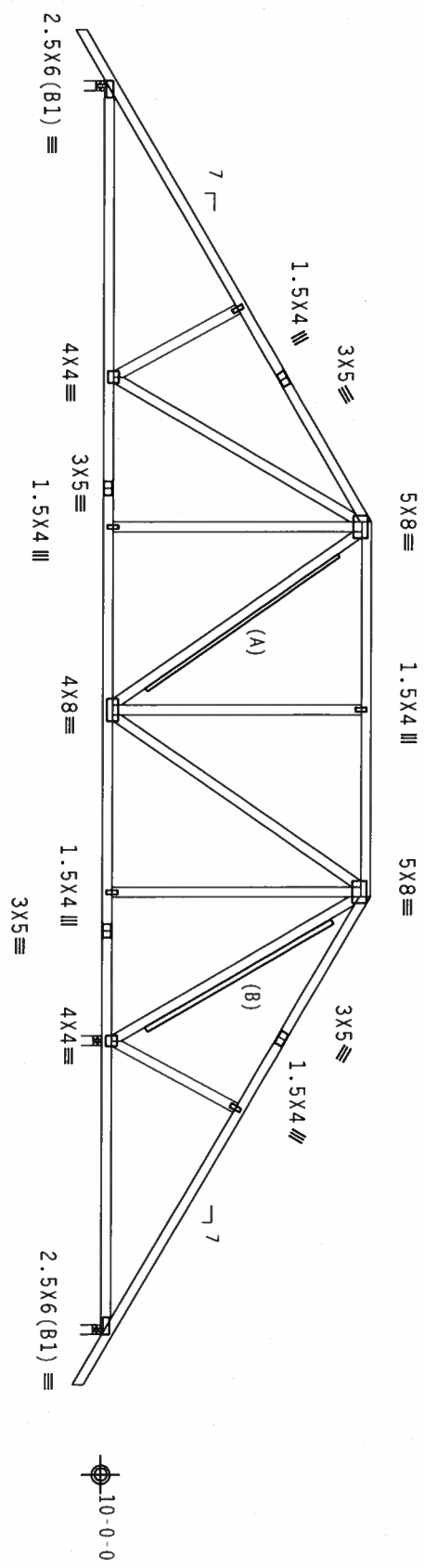
Nov 17 '06

TC LL	20.0 PSF	REF	R487 - 52725
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUR487 08321107
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137609
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T2E487_Z01

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

Wind reactions based on MWFRS pressures.
(B) 2x6 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.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
(A) 1x4 SP #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1

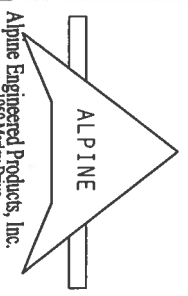
FL/-/4/-/-/R/-

Scale = .1875"/ft.

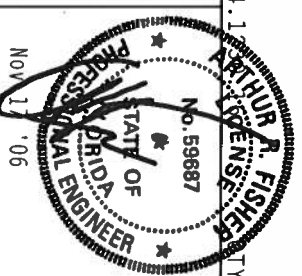
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (DOWNSIDE) FOR MORE INFORMATION. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND WITH PROUD TRUSS CONSTRUCTION, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE

CONNECTOR PLATES ARE MADE OF 2018/1604 (W/H/55/S) ASTM A563 GRADE 40/60 (W, K/H, 55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK AS OF TP11-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate # 171

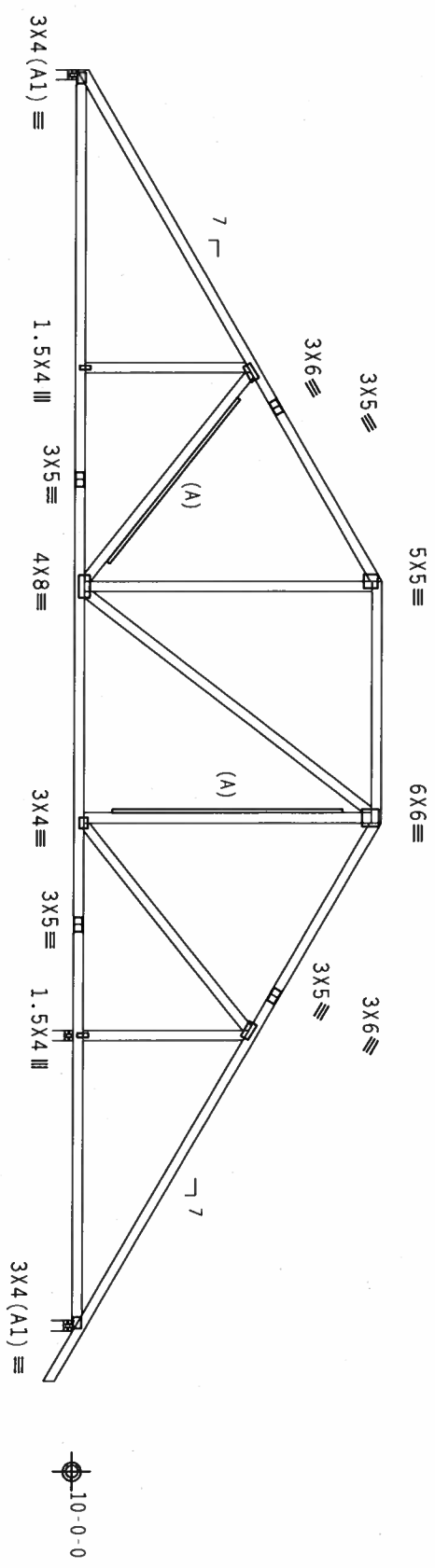


TC LL	20.0 PSF	REF R487-- 52726
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321118
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN- 137605
DUR. FAC.	1.25	
SPACING	24.0"	JRFF- 1T2E487_Z01

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

Wind reactions based on MWFRS pressures.
In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=5.0 psf.
(A) 1x4 SP #3 or better "T" brace, 80% length of web member.
Attach with 8d Box or Gun (0.113"x2.5".min.)nails @ 6" OC.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



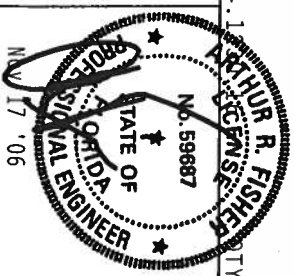
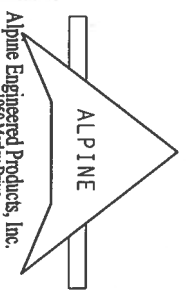
15-0-0 28-4-4 7-1-0 15-0-0 1-6-0
37-1-0 Over 3 Supports
R=1195 U=180 W=3.5"
R=1476 U=180 W=3.5"
R=514 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC CQ/RT=1.00(1.25)/10(0) 7.24.10 ARTHUR R. FISHER No. 59887

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304. 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 AWS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (W/H/SS/AS) ASTM A563 GRADE 40/60 (W, K/H/SS) 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 ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

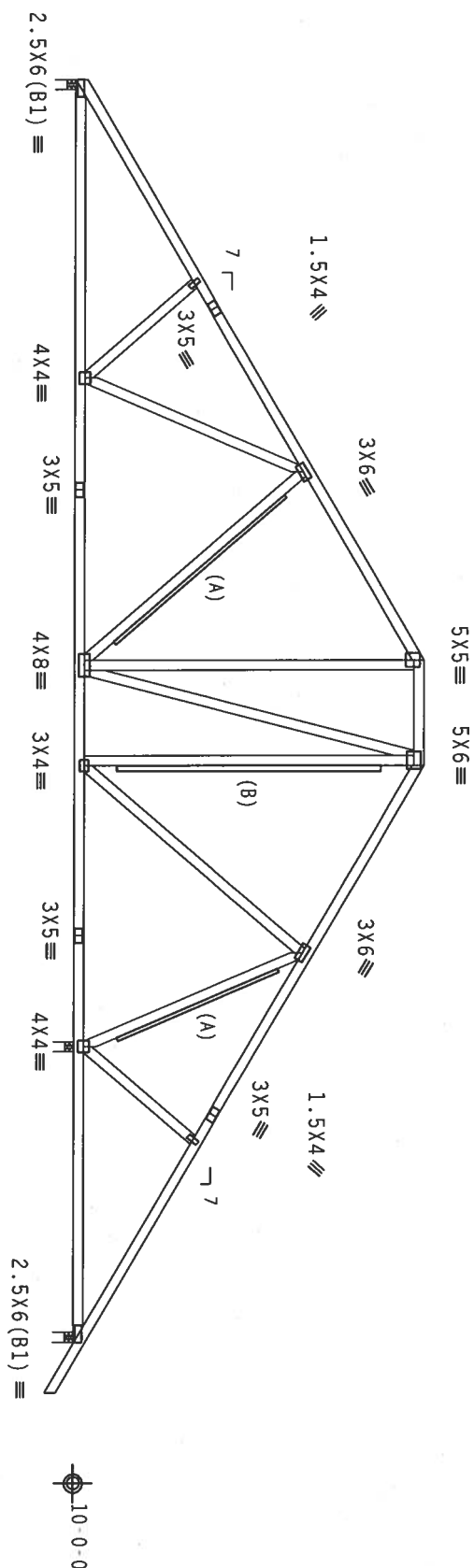


FL	-	/	-	/	-	/	-	Scale = .1875"/ft.
TC LL								REF R487 - 52727
TC DL								DATE 11/17/06
BC DL								DRW HCUSR487 06321139
BC LL								HC-ENG JB/AF
TOT.LD.								SEQN- 137601
DUR.FAC.								
SPACING								

Wind reactions based on MWFRS pressures.

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

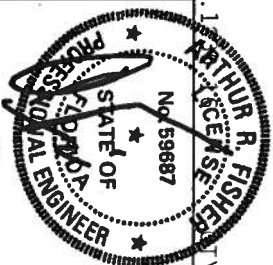
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Scale = .1875"/Ft.

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

Haines City, FL 33844



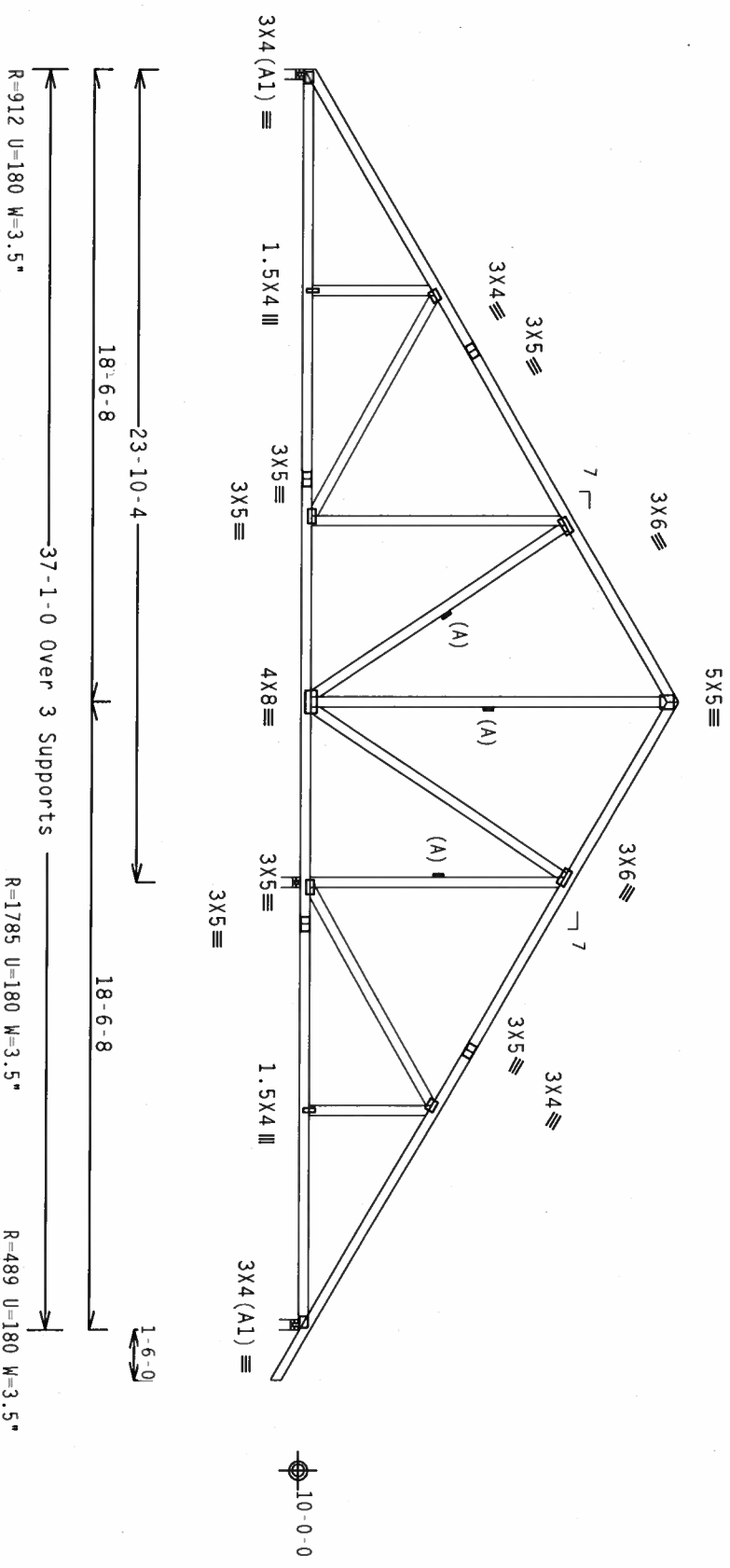
TC LL	20.0 PSF	REF	R487 - 52728
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06s21002
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137597
DUR.FAC.	1.25		
SPACING	24.0"	JRFF -	1T2F487_201

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

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.33 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/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

QUANTITY: 1

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

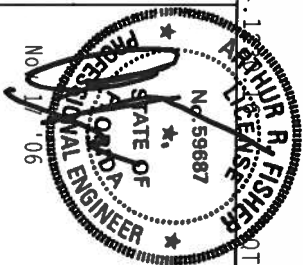
Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO AISC 308 (2010) FOR TRUSS FABRICATION. PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. 11 SOUTH WILSON STREET, SUITE 1120, ALEXANDRIA, VA 22304. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS 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 DEVIATING FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/55/S) ASTM A653 GRADE 40/60 (W, K/H, 55) 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 AMES AS OF TPI-2002 SEC. 3. A SEAL ON THIS DESIGN SHALL INDICATE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. NO OTHER SEAL, SIGNATURE, OR USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/171.1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Murfey Drive
Haines City, FL 33844
Telephone: 888-244-2444
Fax: 888-244-2444



TC LL	20.0 PSF	REF	R487 - 52729
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321076
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN	137589
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1T2F487_201

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 : W1 2x4 SP #2 Dense:

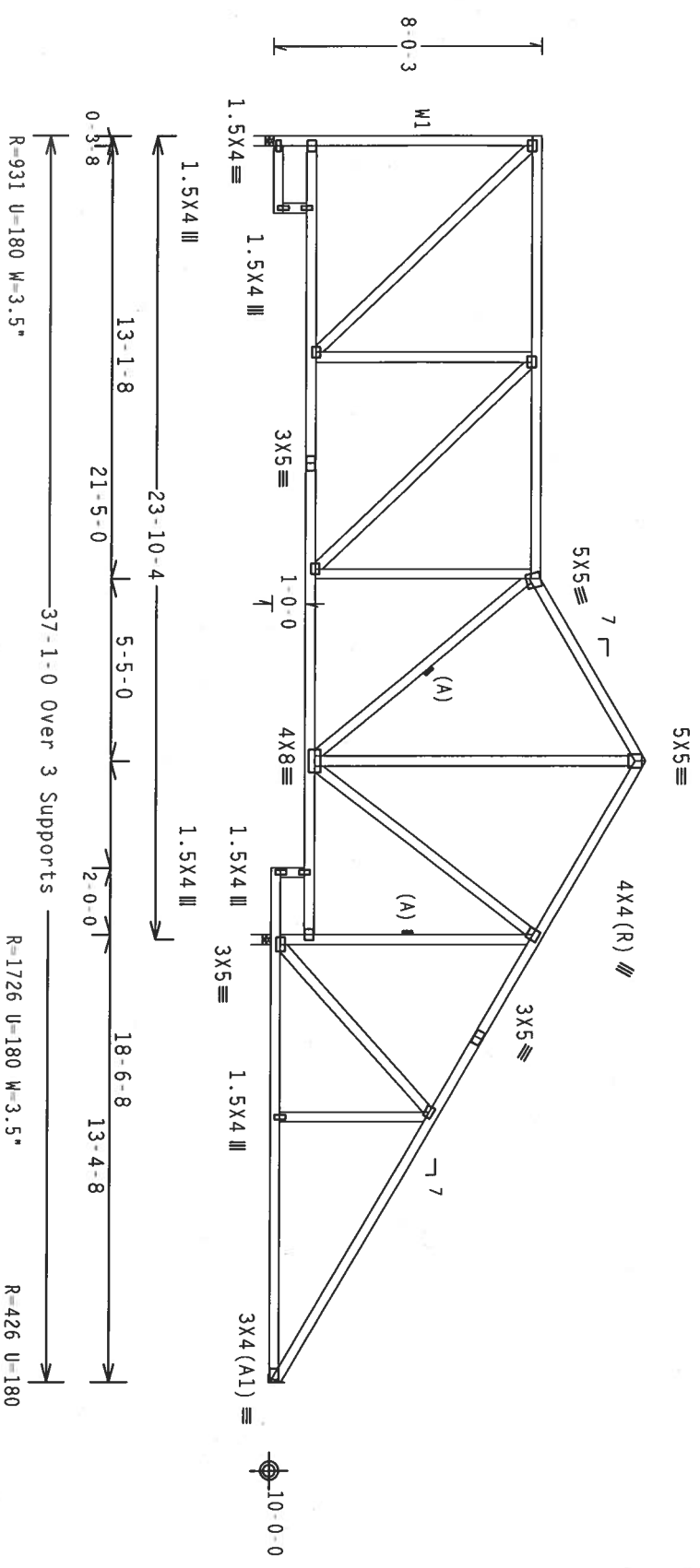
Wind reactions based on MFRS pressures.

Left end vertical not exposed to wind pressure.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER
AT 24" O.C. AND TOP CHORD UNDER FILLER AT 24" O.C. INCLUDING A
LATERAL BRACE AT CHORD ENDS.

110 mph wind, 15.77 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/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

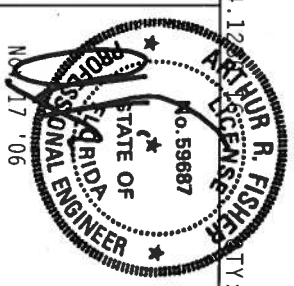
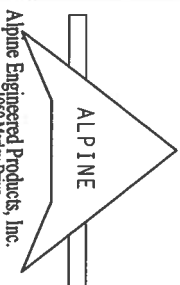
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

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

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. NORTH LEE STREET, SUITE 100, TAMPA, FL 33610. 218 ENTERPRISE LANE, MAISON, MI 48149. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, PLEASE REFER TO THE FOLLOWING: 1. A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/V) ASTM A653 GRADE 40/60 (W, K/H, S5) 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 BUILDING DESIGNER PER ANSI/FP-1 SEC. 2.



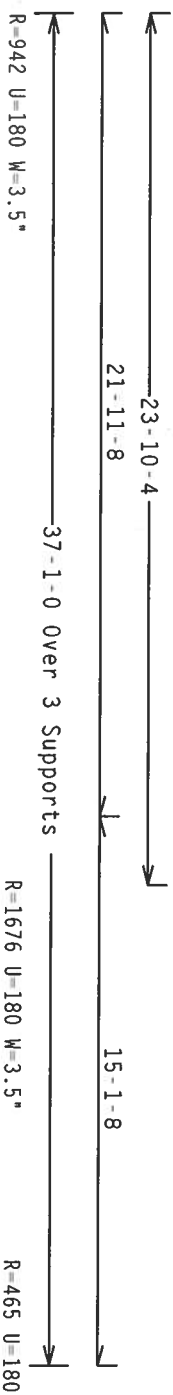
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TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321067
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN	137582
DUR. FAC.	1.25		
SPACING	24.0"		

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.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.


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

Scale = .1875" / Ft.

No. 59687

NEERD



ALPINE
SIGNAL ENGINE

PERSONAL ENJOYMENT

Nov 7, '06

00 1/2" NPT

OF THE

TC LL	20.0 PSF	REF	R487-- 52732
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321075
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEON-	13/561
DUR.FAC.	1.25		
SPACING	24.0"	JBFF -	1T2F487_201

JRFF- 1T2F487_Z01

Top chord 2x4 SP #2 Dense : B2 2x8 SP SS:
Bot chord 2x4 SP #1 Dense : W2, W6 2x4 SP #2 Dense:

2 COMPLETE TRUSSES REQUIRED

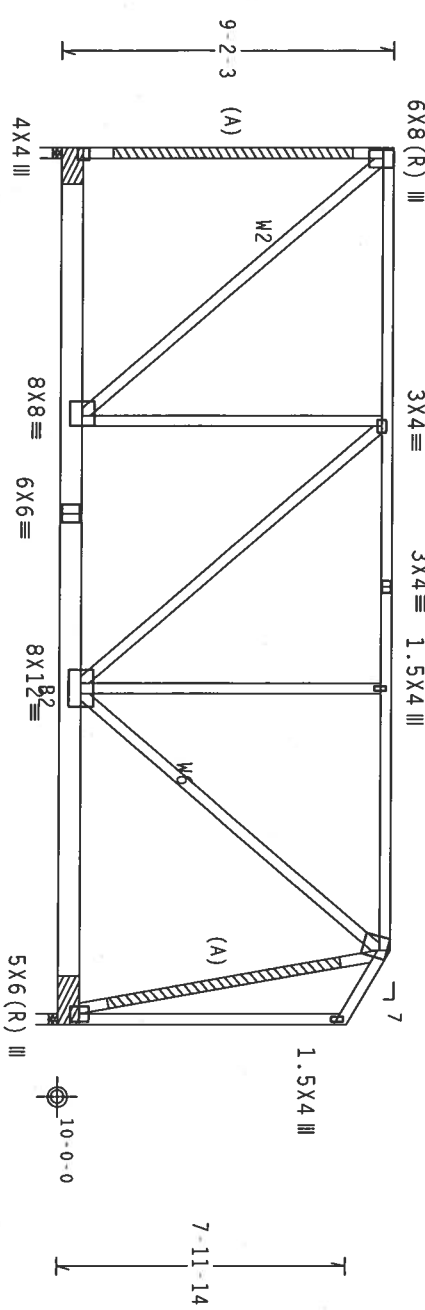
Nailing Schedule: (12d, Common, (0.148"x3.25", min.) -nails)
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 3.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Bearing blocks: Nail type: 12d, Common, (0.148"x3.25", min.) -nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
1 0.000' 1 12" 12 Match Truss
2 23.708' 1 16" 19 Match Truss
Refer to drawing CNBRGDLK1103 for additional information.

End verticals not exposed to wind pressure.
(A) (2) SP #3 or better scab braces. Same size & 80% length of web member. Attach one to each face w/10d Box or Gun (0.128"x3", min.) nails @ 6" OC.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS
----- (LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 24.00
BC - From 20 PLF at 0.00 to 20 PLF at 24.00
BC - 1242 LB Conc. Load at 0.77, 2.94, 12.94, 14.94
BC - 1246 LB Conc. Load at 4.94, 6.94, 8.94, 10.94
BC - 1251 LB Conc. Load at 16.94, 18.94, 20.94, 22.94
110 mph wind, 18.59 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.
Wind reactions based on MWFRS pressures.
Max JT VERT DEF. L: 0.10" DL: 0.15" recommended camber 1/4"
In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.

7X8 (R) III



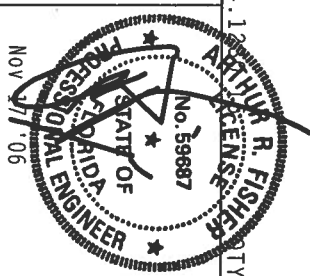
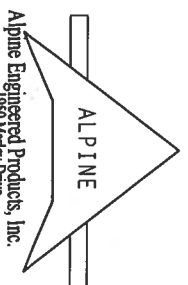
21-11-8
2-0-8
24-0-0 Over 2 Supports
R=8512 U=1154 W=3.5"
R=8436 U=1268 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY TECHNICAL REPORT) FOR PROVISIONS OF 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITH GOOD TRUSS COMPANY, 655 ENTERPRISE LANE, HANSON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/VS) ASTM A653 GRADE 40/50 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. DETAIL SPECIFICATION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SIGNATURE OF A PROFESSIONAL ENGINEER RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SIGNATURE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R487- 52733
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321129
BC LL	0.0 PSF	HC-ENG JB/AF
TOT. LD.	40.0 PSF	SEQN- 137529
DUR. FAC.	1.25	
SPACING	24.0"	
URFF- 1T2F487_201		

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 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.

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

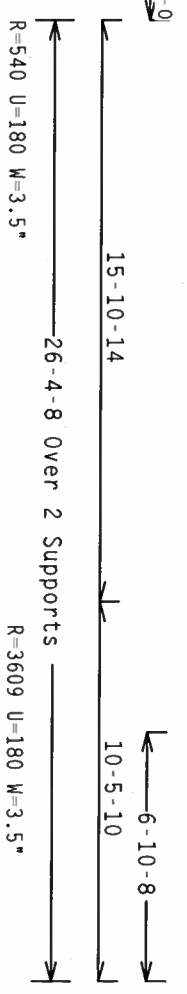
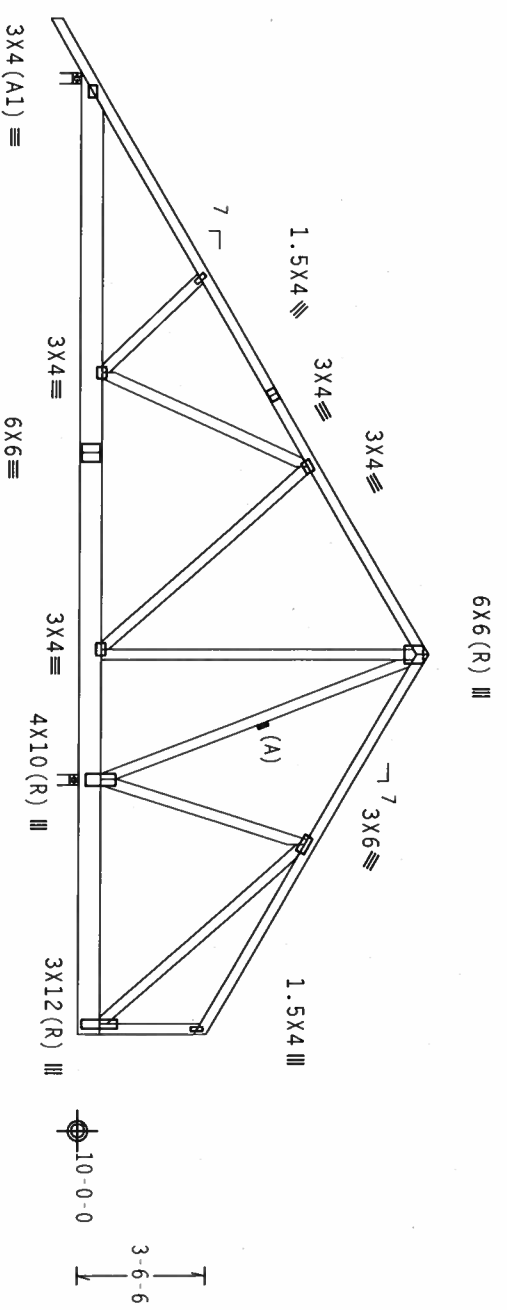
In lieu of structural panels or rigid ceiling use purlins to
brace TC @ 24" OC, BC @ 24" OC.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -1.50 to 63 PLF at 26.38
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 26.38
BC - 88 LB Conc. Load at 15.75
BC - 254 LB Conc. Load at 18.57
BC - 588 LB Conc. Load at 21.40
BC - 924 LB Conc. Load at 24.23

Right end vertical not exposed to wind pressure.

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

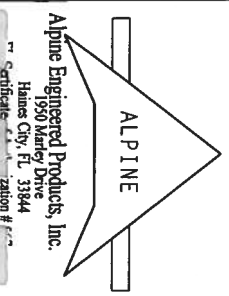


PLT TYP. Wave

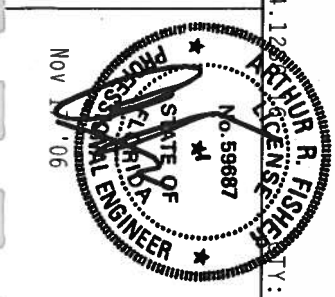
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY) INFORMATION, INCLUDING, SHIPPING, INSTALLING AND BRACING, AND NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICH (WOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 1603 GRADE 40/60 (M, K/H/55) GALV. STEEL. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.Z. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. NO OTHER USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1990 Marney Drive
Haines City, FL 33844
Certificate of Registration # 1771



TC LL	20.0 PSF	REF	R487 - 52734
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321131
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN	138006
DUR.FAC.	1.25		
SPACING	24.0"		
		URFF	1T7E487_201

Scale = .1875"/ft.

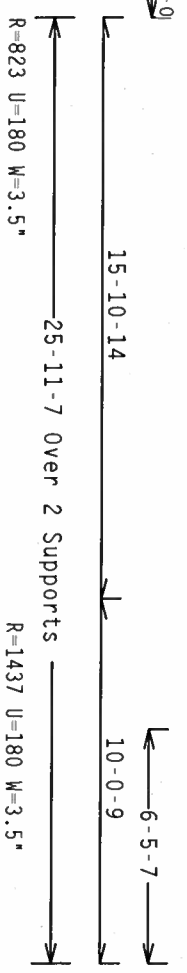
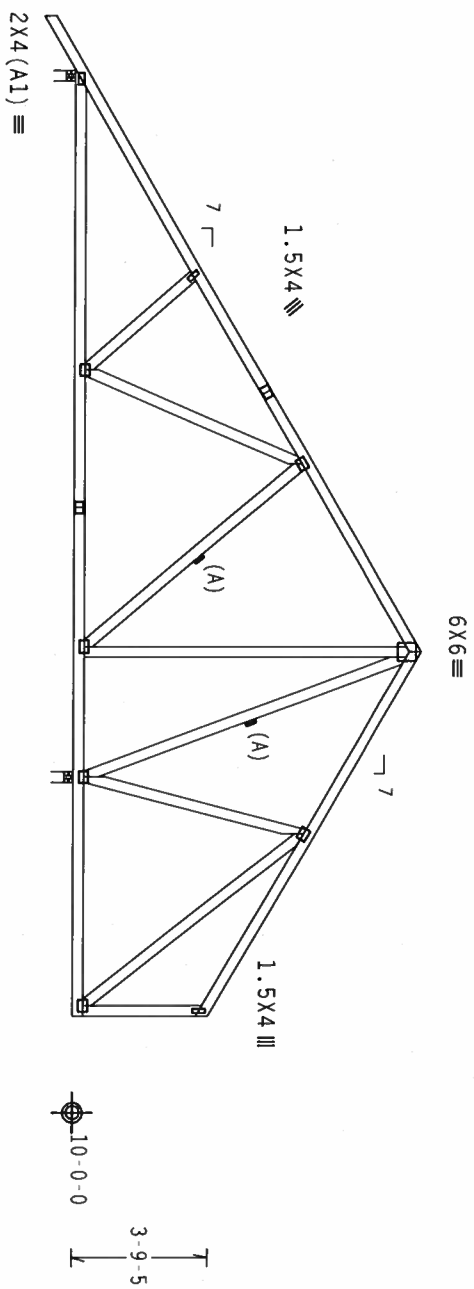
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

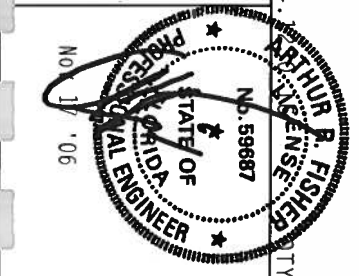
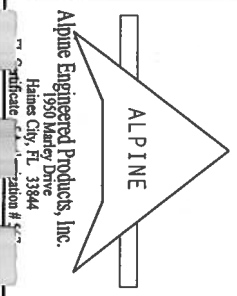


Note: All Plates Are 3X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
CQ/RT=1.00(1.25)/10(0) 7.24

Scale = .1875"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS SOCIETY OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THE SE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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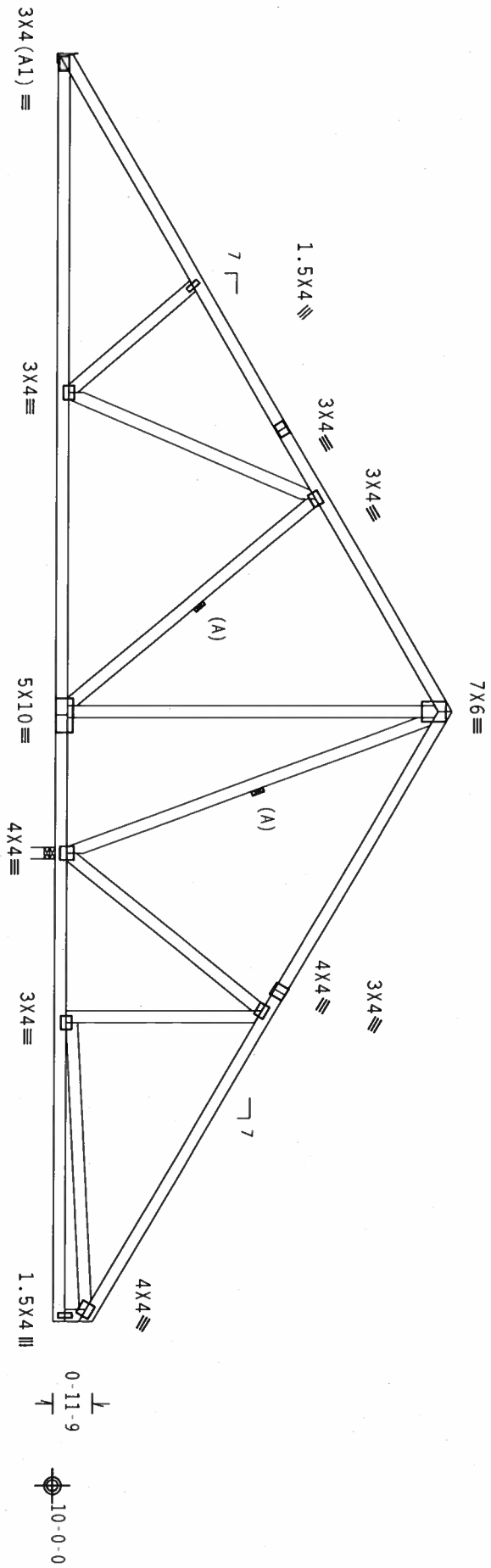
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BC DL	10.0 PSF	DRW	HCUSR487	06321132
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEQN-	137643	
DUR.FAC.	1.25			
SPACING	24.0"	URFF-	1T2F487	_Z01

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

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
(A) Continuous lateral bracing equally spaced on member.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



R=528 U=180
R=2032 U=180 W=3.5"

PLT TYP. Wave

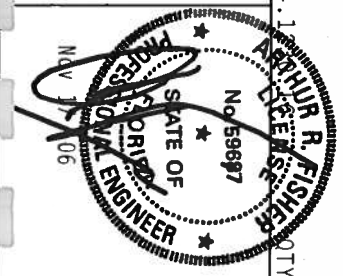
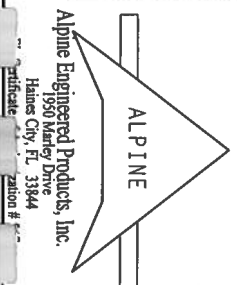
Design Crit: TPI-2002(STD)/FBC
CQ/RT=1.00(1.25)/10(0)

QUANTITY: 1 FL/-/4/-/1/-/R/-

Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS ASSOCIATION OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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TC LL	20.0 PSF	REF	R487 - 52736
TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321028
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT. LD.	40.0 PSF	SEQN-	137655
DUR. FAC.	1.25		
SPACING	24.0"		

DRWF- 1TPE487_201

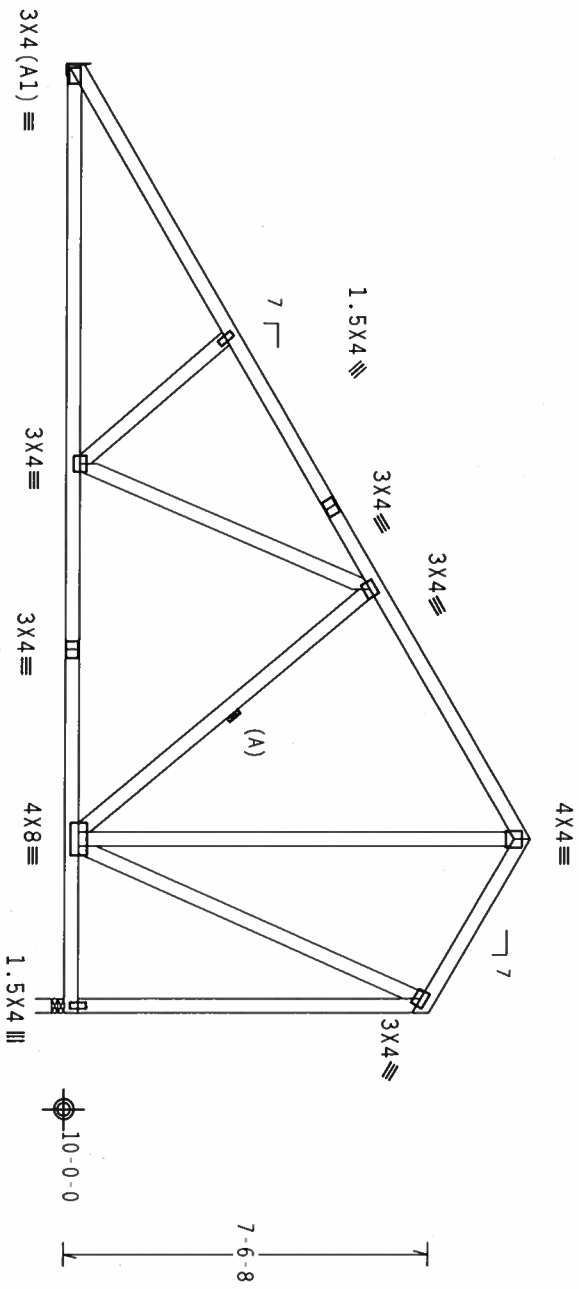
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



15'-10-14
19'-6-0 Over 2 Supports
3'-7-2
R=816 U=180
R=806 U=180 W=3.5"

PLT TYP. Wave

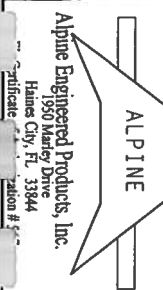
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.24.1

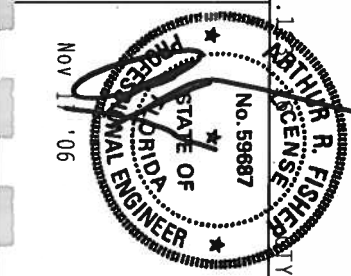
Scale = .25"/ft.

****WARNINGS**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFLECT TO BCSI (BUILDING COMPONENTS INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314. AND OTHER GOOD TRUSS MANUFACTURERS. 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-2002(STD) OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/AS) ASTM A653 GRADE 40/60 (W. K/H/SS) 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 AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER. THE USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marney Drive
Haines City, FL 33844
Certificate of Design #55



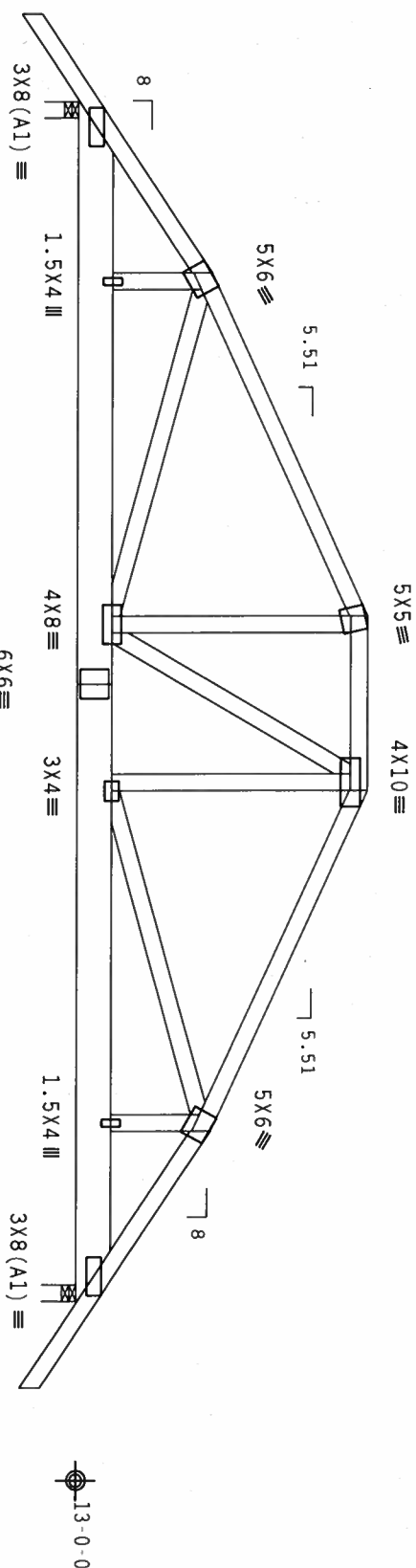
TC LL	20.0 PSF	REF R487-- 52737
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUR487 06321029
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 137667
DUR.FAC.	1.25	
SPACING	24.0"	

110 mph wind, 15.20 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

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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



SPECIAL LOADS		----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC -	From	64 PLF at -1.50 to	64 PLF at 2.94
TC -	From	62 PLF at 2.94 to	62 PLF at 8.83
TC -	From	62 PLF at 8.83 to	62 PLF at 17.72
TC -	From	64 PLF at 17.72 to	64 PLF at 22.17
BC -	From	5 PLF at -1.50 to	5 PLF at 0.00
BC -	From	20 PLF at 0.00 to	20 PLF at 20.67
BC -	From	5 PLF at 20.67 to	5 PLF at 22.17
TC -	33 LB Conc.	Load at 2.94	17.72
TC -	128 LB Conc.	Load at 5.69	14.97
TC -	185 LB Conc.	Load at 8.31	12.36
TC -	278 LB Conc.	Load at 8.83	11.84
TC -	193 LB Conc.	Load at 10.33	
BC -	8 LB Conc.	Load at 2.94	17.72
BC -	52 LB Conc.	Load at 5.69	14.97
BC -	76 LB Conc.	Load at 8.31	12.36
BC -	106 LB Conc.	Load at 8.83	11.84
BC -	82 LB Conc.	Load at 10.33	

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.13

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

Scale = .3125"/Ft.

R=1961 U=279 W=3.5

-20-8-0 Over 2 Supports

R=1961 U=279 W=3.5"

WARNING THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING TO AVOID BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE TRUSS PAIL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND THE WOOD ROSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MOYSDEN, VA 22959. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.


PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF AISC (STEEL) AND AISC (STEEL DESIGN) SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND ENGINEER.

DESIGN CONFORMS TO APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AISC) AND IFC. CONNECTOR PLATES ARE MADE OF 20/18/1664 (W, H/SS/K). ASTM A553 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF BRUITS 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 TPII-2002 SEC.3. 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/FP1 1 SEC. 2.

Nov 17 '06



ARTHUR R. FISHER
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 55687

TC LL	20.0 PSF	REF R487-- 52738
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCU8R487 06321094
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEON- 137746
DUR.FAC.	1.25	
SPACING	24.0"	REF - 1T2FA87-201

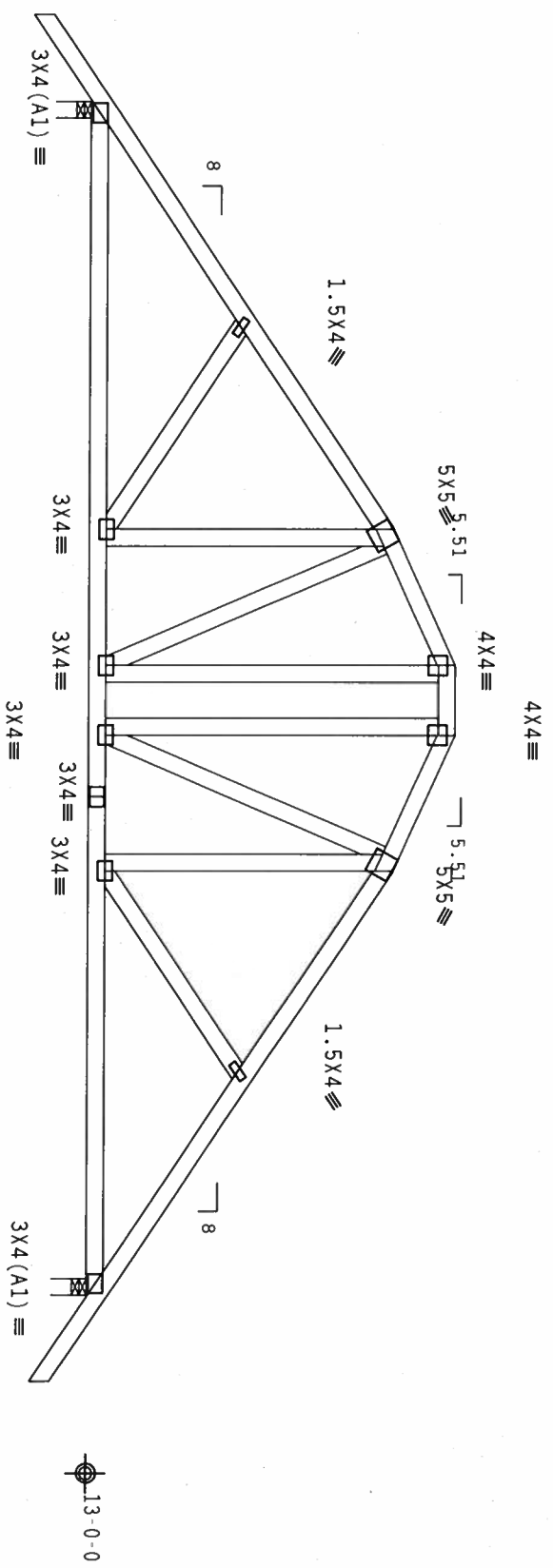
JRFF- 1T7F487-Z01

1

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

Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

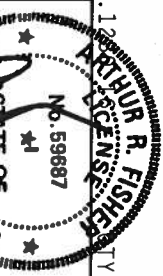
110 mph wind, 15.87 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



7'-4-8 2'-4-4 1'-2-7 2'-4-4 7'-4-8
20'-8-0 Over 2 Supports
R=966 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.12
Scale = .3125"/ft.

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1950 Marley Drive
Haines City, FL 33844



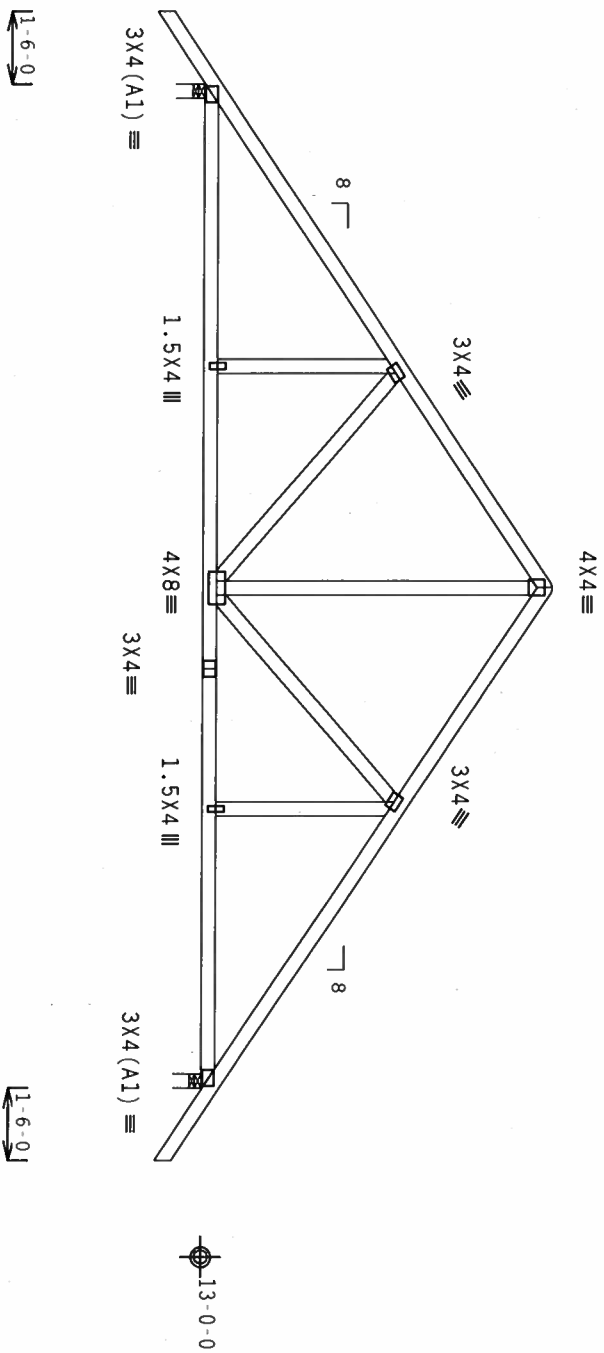
TC LL	20.0 PSF	REF R487-- 52739
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321103
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEON- 137723
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1175487_201

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 16.28 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.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

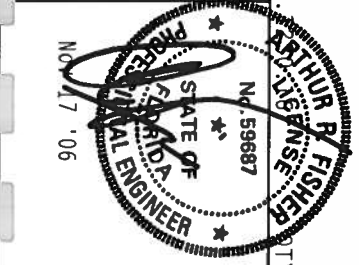
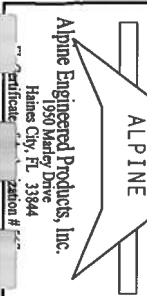


PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24

WARNINGS TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSS, BUILDING CODES, AND OTHER RELEVANT CODES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WITCO TRUSS COMPANY, 5218 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/55K) ASTM A653 GRADE 40/60 (W/ H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN FEET AND INCHES. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487--	52740
TC DL	10.0 PSF	DATE	11/17/06	
BC DL	10.0 PSF	DRW	HCSR487	06321093
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SECN-	138020	
DUR.FAC.	1.25			
SPACING	24.0"	JRFF-	117F487	_Z01

3 COMPLETE TRUSSES REQUIRED

Na111ng Schedule: (12d_Common_(0.148"x3.25",_m1n.)_na11s)
 10n Chord: 1Row @12 00" 0 C

Bot Chord: 1 Row @12.00" 0.0.c.

Repeat nesting as each layer is applied. 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.

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.

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

PLT TYP. Wave

-15-7-8 Over 2 Supports

R=1811 U=202 W=3.5*

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

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

7.24.12

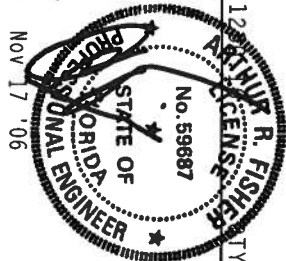
FL/-/4/-/-/R/-/-/1

Scale = .5" / Ft.

Alpine Engineered Products, Inc.
1050 McLean Drive

Haines City, FL 33844

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. APINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. FAILURE TO BUILD THE DESIGN IN ACCORDANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR ALUMINUM AND STEEL), APINE CONNECTOR PLATES ARE MADE OF 6010/1604 (H/55/25) ASTM A653 GRADE 50/60 (H/ K) 55% GALV. STEEL. APINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. DRAWING INDICATES ACCEPTED JOINTS SHALL BE PER ANNEX A.3 OF JULY 2002, SEC. 3. THE SEAL ON THIS DESIGN SHOWN. THE SATURABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/P1 SEC. 2.



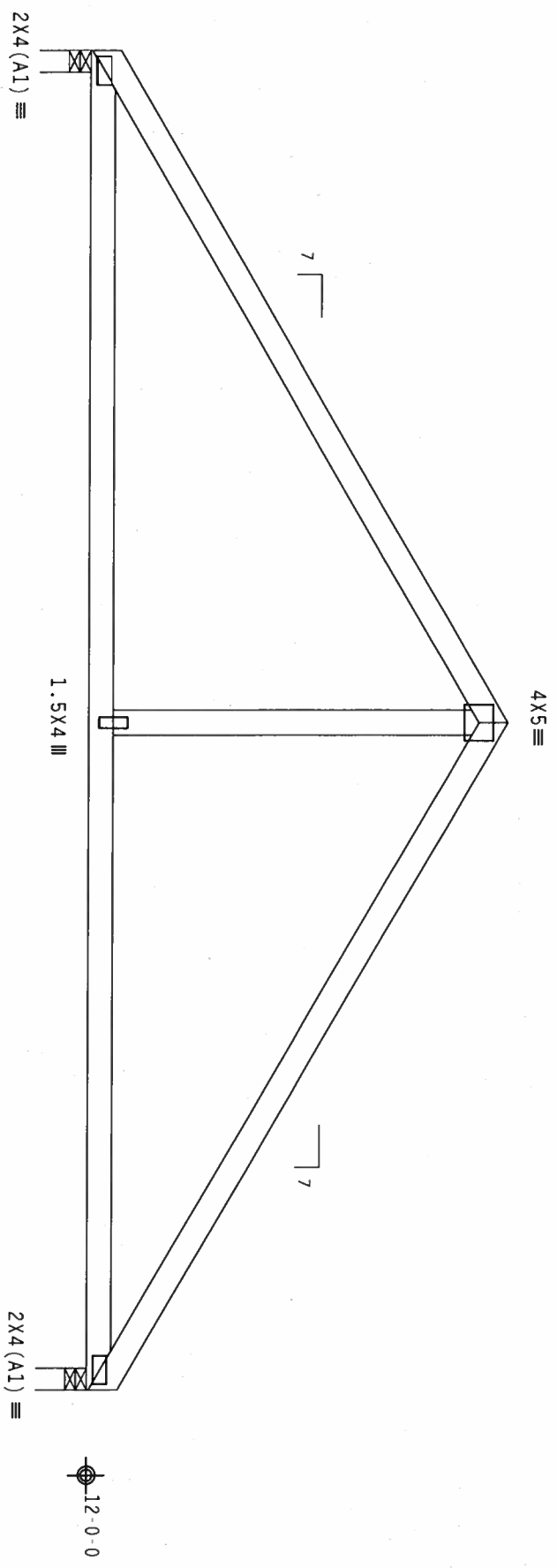
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TC DL	10.0 PSF	DATE	11/17/06
BC DL	10.0 PSF	DRW	HCUSR487 06321027
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN -	137347
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T2F487_Z01

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf.
In lieu of structural panels or rigid ceiling use purllins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

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

7.24.12

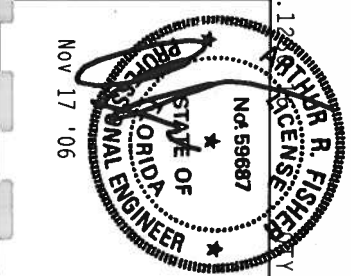
FL/-/4/-/R/-

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING PRACTICES FOR TRUSS DESIGN. TRUSSES ARE NOT TO BE USED IN ANY OTHER MANNER THAN AS INDICATED. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22312, AND VICE VERSA. TRUSS MANUFACTURER'S OFFICE, 10000 W. 10TH AVENUE, DENVER, CO 80231, 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/55/K) ASTM A653 GRADE 40/60 (K, K/H, 55) 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 AMEX AS OF TPI 1 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. THE SEAL IS NOT TO BE USED FOR THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMEX/TPI 1 SEC. 2.

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



TC LL	20.0 PSF	REF R487-- 52743
TC DL	10.0 PSF	DATE 11/17/06
BC DL	10.0 PSF	DRW HCUSR487 06321043
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 137320
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1172F487_201

BEARING BLOCK NAIL SPACING DETAIL

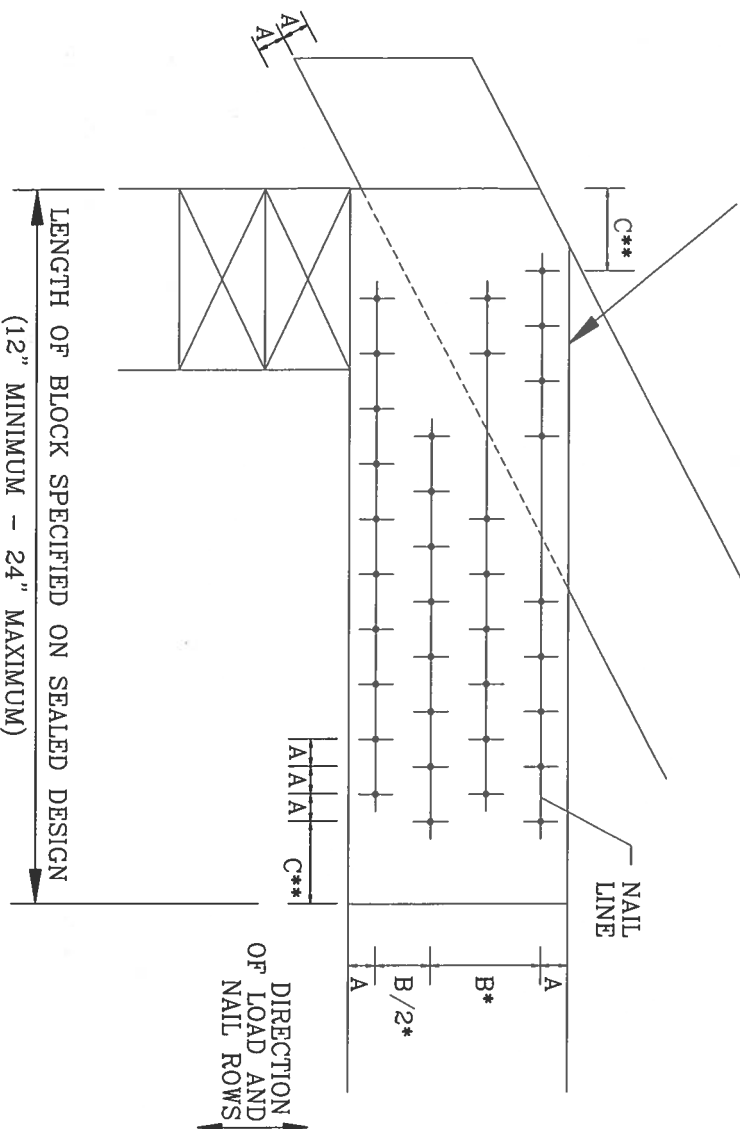
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

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

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

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

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



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

MINIMUM NAIL SPACING DISTANCES

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

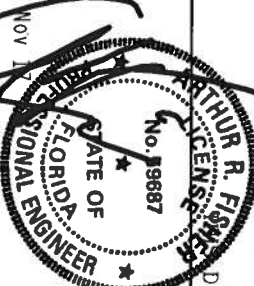
DRAWING REPLACES DRAWING B139 AND CNBRGK0699



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS 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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (V.H./X) ASTM A653 GRADE 40/60 (V.H./X) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2. ANY INSPECTION OF TRUSS FOLLOWED BY CD SHALL BE PERFORMED BY AN ENGINEER OR ARCHITECT. THE DESIGNER SHALL BE RESPONSIBLE FOR THE SUITABILITY AND USE OF THE TRUSS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.



REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGK1103
-ENG	SJP/KAR

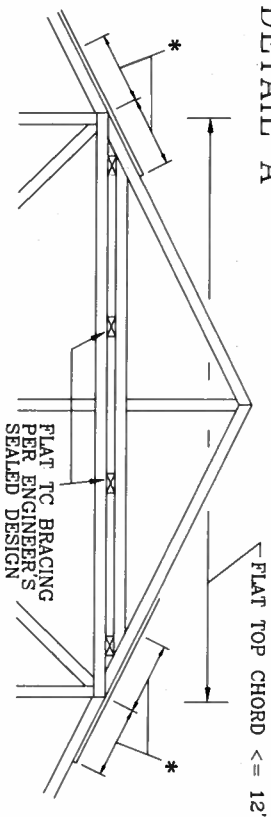
PIGGYBACK DETAIL

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG.
 LOCATED ANYWHERE IN ROOF, CAT II, EXP C.
 WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC,
 ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF
 WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

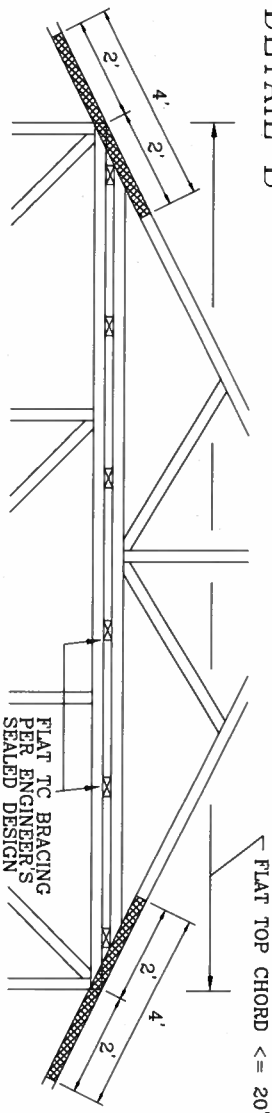
DETAIL A



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

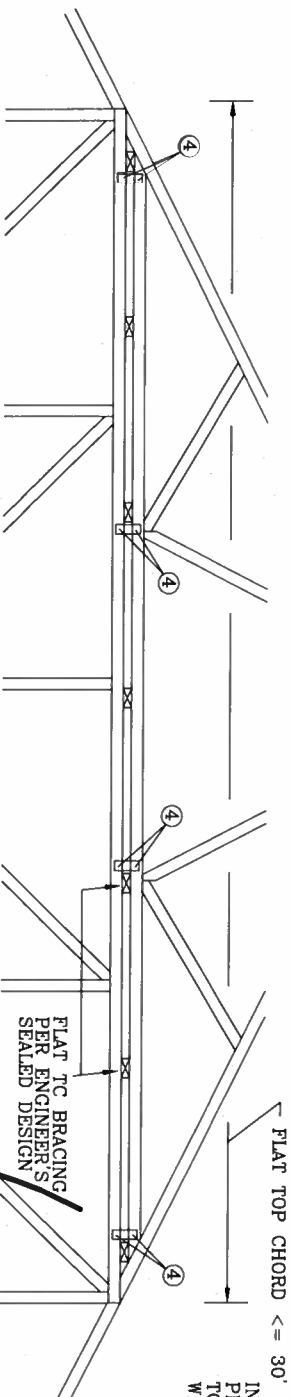
* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

DETAIL B



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

DETAIL C



CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.

IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.

(4) 8d COMMON NAILS (0.131"x2.5")

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES. ATTACH WITH (8) 8d COMMON NAILS PER GUSSET. (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

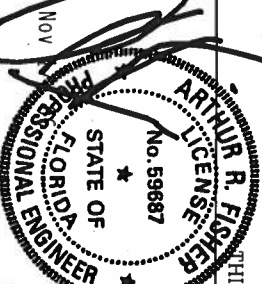
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
 POMPAHO BEACH, FLORIDA

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

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (A578) ASTM A563 GRADE 40/60 (A578) 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 CD SHALL BE PERFORMED BY A QUALIFIED PERSON. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. THE DESIGNER'S RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGBACKA0405
BC LL	PSF	ENG	DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

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

PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

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

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

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

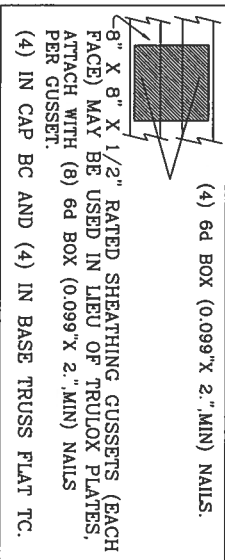
WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

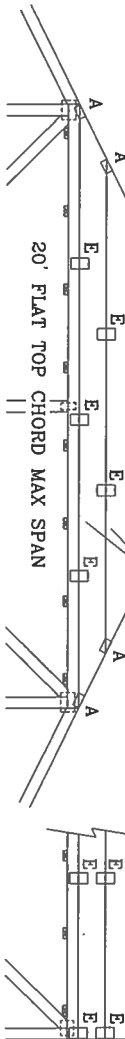
FRONT FACE (E*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

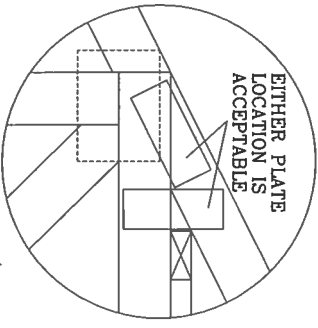


JOINT TYPE	SPANS UP TO			
	30'	34'	36'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

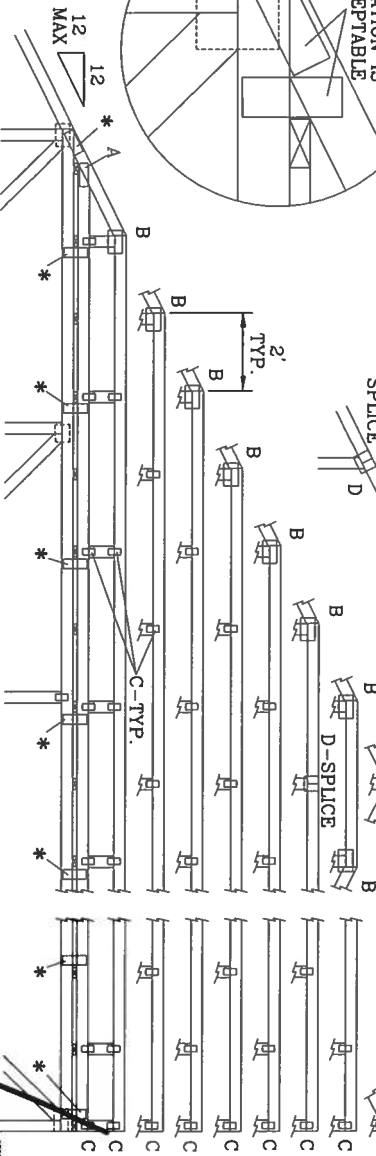
MAX SIZE OF 2X12 #2 OR BETTER



EITHER PLATE LOCATION IS ACCEPTABLE



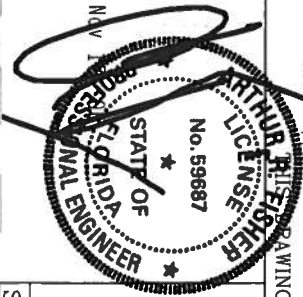
OPTIONAL SPLICE



*ATTACH PIGGYBACK WITH 3X8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

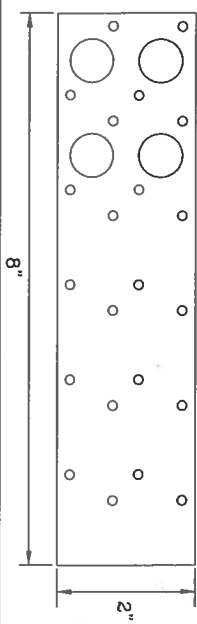
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WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE, SAME GRADE, SPECIES 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.

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.



MAX LOADING	REF	PIGGYBACK
56 PSF AT 1.33 DUR. FAC.	DATE	04/14/05
50 PSF AT 1.25 DUR. FAC.	DRWG	PIGGBACKB0405
47 PSF AT 1.15 DUR. FAC.	-ENG	DLJ/KAR
SPACING		24.0"