DATE 08/23/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000024902

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER ISAAC HOLDINGS PHONE 719-7143

ADDRESS 138 SW PHLOX GLEN LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 47S, TL ON WESTER DR., TL ON KING ST., TR ON NIGHTSHADE, TL PHLOX GLEN, ON LEFT OF CUL-DE-SAC

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 148050.00

HEATED FLOOR AREA 2961.00 TOTAL AREA 4175.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-1 MAX. HEIGHT 21

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO. ____

PARCEL ID 30-4S-17-08898-118 SUBDIVISION WESTERWOOD

LOT 18 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES ____

000001196	____	CBC059323		
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
CULVERT	06-0724-N	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash ~~6130~~ 6143

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 $ 745.00 CERTIFICATION FEE $ 20.88 SURCHARGE FEE $ 20.88

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $ ____

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 886.76

INSPECTORS OFFICE ____ CLERKS OFFICE CH

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.

C/# 6130

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 06.08.34 Date Received 8/10/06 By CP Permit # 11961 24902

Application Approved by - Zoning Official BLK Date 22.08.06 Plans Examiner OKJTH Date 8-21-06

Flood Zone X Development Permit N/A Zoning RSF-1 Land Use Plan Map Category RES. U.L. DEN.

Comments

Applicants Name Linda Roder FAX 752-2282 Phone 752-2281

Address 387 SW Kemp Court Lake City, FL 32024

Isaac Holdings Owners Name Mark and Heather Buchs Phone 623-4666

911 Address 138 SW Phlox Gln Lake City FL 32024

Contractors Name Isaac Construction, LLC Phone 386-719-7143

Address PMB 338 2109 W U.S. Hwy 90 Suite 170 LC FL 32024

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers - Mark Disos.

Mortgage Lenders Name & Address Mercantile

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

Property ID Number 30-4S-17-08898-118 Estimated Cost of Construction 245 K

Subdivision Name Westerwoods Lot 18 Block ___ Unit ___ Phase ___

Driving Directions 47 S. Lon Wester Dr. L on S.W. King St, R on S W Night Shade, 1st on L on Lot at end of culdesac, See Isaac Sign on left

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 1.01 Lot Size 1.01 ac Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 50' Side 56'-5" Side 48'-2" Rear 42'-10"

Total Building Height 21' Number of Stories 1 Heated Floor Area 2961 Roof Pitch 6-12

Porch 568 GARAGE 646 TOTAL 4,175

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

Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Fain - Insurance, Inc. 800-385-7019

Sworn to (or affirmed) and subscribed before me this 9th day of August 2006.

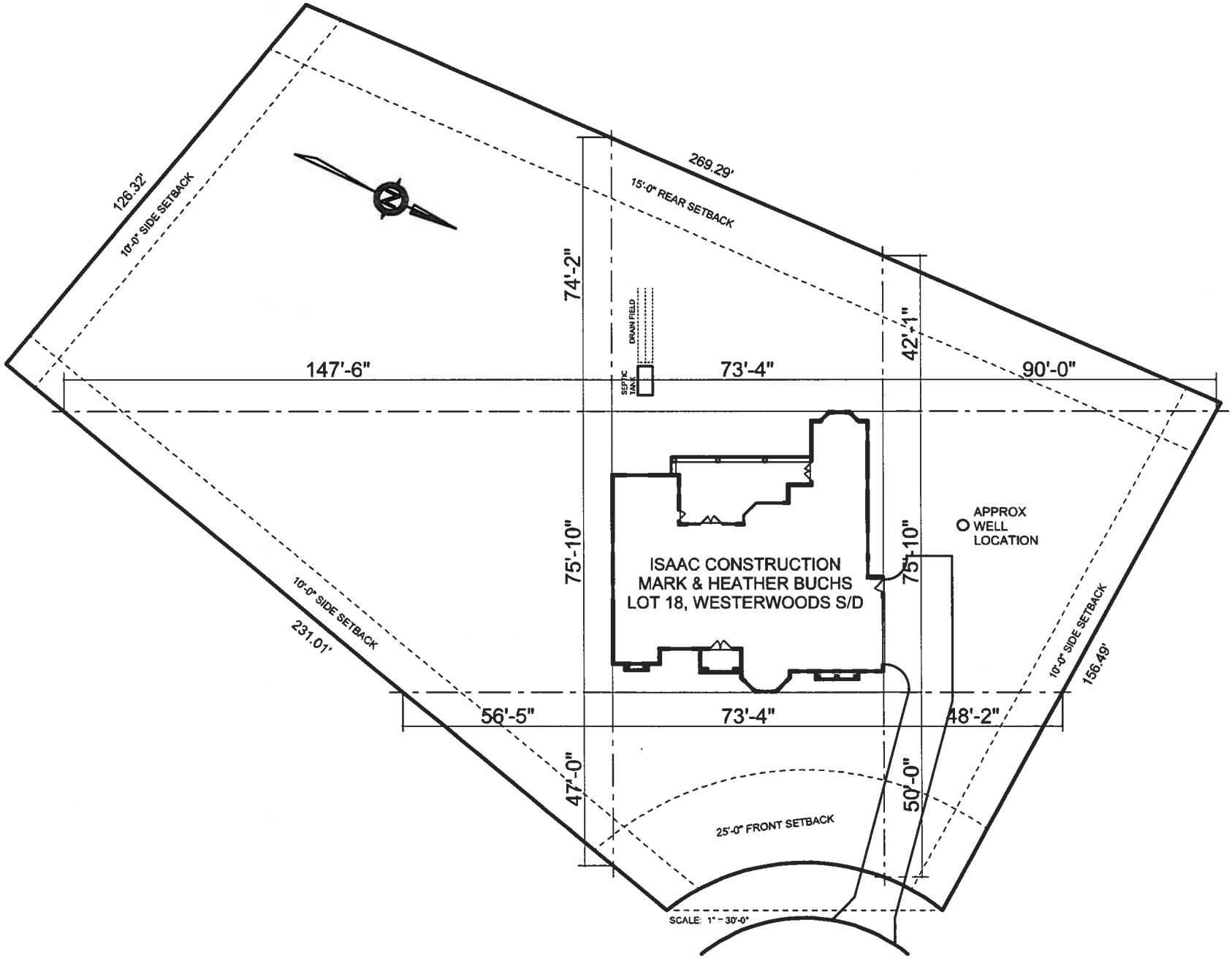
Contractor Signature

Contractors License Number CBC 059323

Competency Card Number

NOTARY STAMP/SEAL

Barbara C Webster


126.32'
10'-0" SIDE SETBACK
269.29'
15'-0" REAR SETBACK
74'-2"
DRAIN FIELD
SEPTIC TANK
42'-1"
147'-6"
73'-4"
90'-0"
APPROX WELL LOCATION
ISAAC CONSTRUCTION
MARK & HEATHER BUCHS
LOT 18, WESTERWOODS S/D
75'-10"
75'-10"
10'-0" SIDE SETBACK
231.01'
10'-0" SIDE SETBACK
156.49'
56'-5"
73'-4"
48'-2"
47'-0"
50'-0"
25'-0" FRONT SETBACK
SCALE: 1" = 30'-0"

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 06-338
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Property Appraiser's
Identification Number R06899A-118

Inst:2006015998 Date:07/05/2006 Time:14:42
Doc Stamp-Deed : 455.00
DC,P.DeWitt Cason,Columbia County B:1088 P:2240

WARRANTY DEED

This Warranty Deed, made this 23RD day of June, 2006, BETWEEN CAROLE J. WOUTERS and her Husband, EDWARD S. WOUTERS, whose post office address is Post Office Box 382, Ft. Pierce, FL 34954, of the State of Florida, grantor*, and ISAAC HOLDINGS, INC., A Florida Corporation, whose post office address is 2109 W US Highway 90, Suite 170 PMB 338, Lake City, FL 32055, of the County of Columbia, State of Florida, grantee*.

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

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

Lot 18, WESTER WOODS, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 36 and 37 of the public records of Columbia County, Florida.

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

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

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

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

Signed, sealed and delivered
in our presence:

(Signature of First Witness)
Charlotte M. Walters
(Typed Name of First Witness)

(Signature of Second Witness)
Shannon Futch
(Typed Name of Second Witness)

Carole J. Wouters (SEAL)
Grantor
CAROLE J. WOUTERS
Printed Name

Edward S. Wouters (SEAL)
Grantor
EDWARD S. WOUTERS
Printed Name

STATE OF Florida
COUNTY OF St. Lucie

The foregoing instrument was acknowledged before me this 23 day of June, 2006, by ~~CAROLE J. WOUTERS~~ and her Husband, EDWARD S. WOUTERS, who are personally known to me or who have produced _____ as ~~identification~~ and who did not take an oath.

My Commission Expires:
(Seal)

Notary Public
Printed, typed, or stamped name:

Charlotte M Walters
My Commission DD348068
Expires November 24, 2007

Inst:2006015998 Date:07/05/2006 Time:14:42
Doc Stamp-Deed : 455.00
DC,P.DeWitt Cason,Columbia County B:1088 P:2241

THIS INSTRUMENT WAS PREPARED BY:
TERRY McDAVID 06-338
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

PERMIT NO.:_____ TAX FOLIO NO.:

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

Lot 18, WESTER WOODS, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 36 and 37 of the public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:
a. Name and address: ISAAC HOLDINGS, INC.
2109 W US Highway 90, Suite 170 PMB 338, Lake City, FL 32055

b. Interest in property: Fee Simple

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

4. Contractor: ISAAC CONSTRUCTION, LLC
2109 W US Highway 90, Suite 170 PMB 338, Lake City, FL 32055; Phone No.: (386) 719-7143

5. Surety n/a
a. Name and address:
b. Amount of bond:

Inst:200618135 Date:08/01/2006 Time:13:39
DC,P.DeWitt Cason,Columbia County B:1091 P:982

6. Lender: Mercantile Bank
187 SE Baya Drive, Lake City, FL 32025

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

8. In addition to himself, Owner designates Clarence B. Cannon, III, at Mercantile Bank, 187 SE Baya Drive, Lake City, FL 32025 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). July 27, 2007.

ISAAC HOLDINGS, INC.

By: ISAAC BRATKOVICH, President

The foregoing instrument was acknowledged before me this 27th day of July, 2006, by ISAAC BRATKOVICH, President of ISAAC HOLDINGS, INC. who is personally known to me and who did not take an oath.

Notary Public
My Commission expires:_____

CRYSTAL L. BRUNNER
MY COMMISSION # DD439148
EXPIRES: June 30, 2009
FL Notary Discount Assoc. Co.

ASPEN
PEST CONTROL, INC.

Phone (386) 755-3611
Fax (386) 755-3885
Toll Free 1-800-616-4707

Notice of Intent for Preventative Treatment for Termites

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

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

Mark Buchs – Lot 18 – Westerwoods – 30-4S17-17-08898-118
Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate
Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood
Description of Treatment

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

Celia Snyder
Authorized Signature

8-7-06
Date

FORM 600A-2004 Tested sealed ducts must be certified in this house. EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Isaac Construction Inc. - Buchs Res.**	Builder:	**Isaac Construction Inc.**
Address:	**Lot: 18, Sub: Westerwoods, Plat:**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32024-**	Permit Number:	24902
Owner:	**Mark & Heather Buchs**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 74.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	2961 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a (Sngle Default) 502.0 ft²	a. Electric Heat Pump	Cap: 74.0 kBtu/hr
b. SHGC:			HSPF: 7.20
(or Clear or Tint DEFAULT)	7b. (Clear) 502.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 320.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 80.0 gallons
a. Frame, Wood, Exterior	R=19.0, 2248.0 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 430.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 3061.0 ft²	15. HVAC credits	
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts(Leak Free)		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 65.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.17 Total as-built points: 39411 Total base points: 41949 **PASS**

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

PREPARED BY: Jon Morris

DATE: 7-20-06

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

OWNER/AGENT: _____

DATE: 8-9-06

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2961.0	20.04	10680.9	Single, Clear	W	1.5	10.0	45.0	43.84	0.98	1931.2	
				Single, Clear	N	8.5	10.0	6.0	21.73	0.73	95.8	
				Single, Clear	N	20.5	10.0	20.0	21.73	0.62	269.9	
				Single, Clear	W	20.5	10.0	80.0	43.84	0.41	1427.1	
				Single, Clear	N	15.5	10.0	77.0	21.73	0.65	1087.1	
				Single, Clear	S	4.5	10.0	40.0	40.81	0.69	1124.0	
				Single, Clear	N	1.5	10.0	30.0	21.73	0.98	640.0	
				Single, Clear	N	1.5	10.0	6.0	21.73	0.98	128.0	
				Single, Clear	N	1.5	10.0	16.0	21.73	0.98	341.3	
				Single, Clear	NE	1.5	10.0	21.0	33.55	0.98	691.4	
				Single, Clear	E	1.5	10.0	63.0	47.92	0.98	2953.3	
				Single, Clear	SE	1.5	10.0	21.0	48.65	0.98	996.4	
				Single, Clear	E	7.5	13.0	40.0	47.92	0.68	1296.9	
				Single, Clear	E	2.5	10.0	18.0	47.92	0.91	787.3	
				Single, Clear	S	1.5	10.1	15.0	40.81	0.96	588.5	
				Single, Clear	S	1.5	10.0	4.0	40.81	0.96	156.7	
				As-Built Total:				**502.0**			**14515.0**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	430.0	0.70	301.0	Frame, Wood, Exterior	19.0	2248.0	0.90	2023.2
Exterior	2248.0	1.70	3821.6	Frame, Wood, Adjacent	13.0	430.0	0.60	258.0
Base Total:	**2678.0**		**4122.6**	**As-Built Total:**		**2678.0**		**2281.2**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Adjacent Insulated	20.0	1.60	32.0
Exterior	0.0	0.00	0.0				
Base Total:	**20.0**		**32.0**	**As-Built Total:**	**20.0**		**32.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2961.0	1.73	5122.5	Under Attic	30.0	3061.0	1.73 X 1.00	5295.5
Base Total:	**2961.0**		**5122.5**	**As-Built Total:**		**3061.0**		**5295.5**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	320.0(p)	-37.0	-11840.0	Slab-On-Grade Edge Insulation	0.0	320.0(p	-41.20	-13184.0
Raised	0.0	0.00	0.0					
Base Total:			**-11840.0**	**As-Built Total:**		**320.0**		**-13184.0**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points				Area X	SPM	=	Points
	2961.0	10.21	30231.8				2961.0	10.21		30231.8
Summer Base Points: 38349.9				**Summer As-Built Points:**						**39171.5**
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
				(sys 1: Central Unit 74000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
				39172	1.00	(1.09 x 1.000 x 1.00)	0.284	1.000		12143.7
38349.9	**0.4266**		**16360.1**	**39171.5**	**1.00**	**1.090**	**0.284**	**1.000**		**12143.7**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE

GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points
.18 2961.0	12.74	6790.2

WALL TYPES	Area X	BWPM =	Points
Adjacent	430.0	3.60	1548.0
Exterior	2248.0	3.70	8317.6
Base Total:	**2678.0**		**9865.6**

DOOR TYPES	Area X	BWPM =	Points
Adjacent	20.0	8.00	160.0
Exterior	0.0	0.00	0.0
Base Total:	**20.0**		**160.0**

CEILING TYPES	Area X	BWPM =	Points
Under Attic	2961.0	2.05	6070.0
Base Total:	**2961.0**		**6070.0**

FLOOR TYPES	Area X	BWPM =	Points
Slab	320.0(p)	8.9	2848.0
Raised	0.0	0.00	0.0
Base Total:			**2848.0**

AS-BUILT

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF =	Points
Single, Clear	W	1.5	10.0	45.0	28.84	1.01	1305.2
Single, Clear	N	8.5	10.0	6.0	33.22	1.02	202.6
Single, Clear	N	20.5	10.0	20.0	33.22	1.03	681.2
Single, Clear	W	20.5	10.0	80.0	28.84	1.22	2822.5
Single, Clear	N	15.5	10.0	77.0	33.22	1.02	2616.8
Single, Clear	S	4.5	10.0	40.0	20.24	1.52	1227.5
Single, Clear	N	1.5	10.0	30.0	33.22	1.00	996.8
Single, Clear	N	1.5	10.0	6.0	33.22	1.00	199.4
Single, Clear	N	1.5	10.0	16.0	33.22	1.00	531.6
Single, Clear	NE	1.5	10.0	21.0	32.04	1.00	672.8
Single, Clear	E	1.5	10.0	63.0	26.41	1.01	1684.9
Single, Clear	SE	1.5	10.0	21.0	21.82	1.03	471.5
Single, Clear	E	7.5	13.0	40.0	26.41	1.15	1213.6
Single, Clear	E	2.5	10.0	18.0	26.41	1.04	492.2
Single, Clear	S	1.5	10.1	15.0	20.24	1.01	307.2
Single, Clear	S	1.5	10.0	4.0	20.24	1.01	82.0
As-Built Total:				**502.0**			**15507.6**

Type	R-Value	Area X	WPM =	Points
Frame, Wood, Exterior	19.0	2248.0	2.20	4945.6
Frame, Wood, Adjacent	13.0	430.0	3.30	1419.0
As-Built Total:		**2678.0**		**6364.6**

Type	Area X	WPM =	Points
Adjacent Insulated	20.0	8.00	160.0
As-Built Total:	**20.0**		**160.0**

Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	30.0	3061.0	2.05 X 1.00	6275.0
As-Built Total:		**3061.0**		**6275.0**

Type	R-Value	Area X	WPM =	Points
Slab-On-Grade Edge Insulation	0.0	320.0(p	18.80	6016.0
As-Built Total:		**320.0**		**6016.0**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	2961.0	-0.59	-1747.0		2961.0	-0.59	-1747.0			
Winter Base Points:			**23986.8**	**Winter As-Built Points:**						**32576.3**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
				(sys 1: Electric Heat Pump 74000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
				32576.3	1.000	(1.069 x 1.000 x 1.00)	0.474	1.000	16493.1	
23986.8	**0.6274**	**15049.3**		**32576.3**	**1.00**	**1.069**	**0.474**	**1.000**	**16493.1**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4	2635.00	10540.0		80.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:						**10774.2**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
16360	**15049**	**10540**	**41949**	**12144**	**16493**	**10774**	**39411**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-** 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 cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.4

The higher the score, the more efficient the home.

Mark & Heather Buchs, Lot: 18, Sub: Westerwoods, Plat: , Lake City, FL, 32024-

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family			a. Central Unit	Cap: 74.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 12.00
4.	Number of Bedrooms	4			b. N/A	
5.	Is this a worst case?	No				
6.	Conditioned floor area (ft²)	2961 ft²			c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					
	a. U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT)	7a (Sngle Default) 502.0 ft²			a. Electric Heat Pump	Cap: 74.0 kBtu/hr
	b. SHGC:					HSPF: 7.20
	(or Clear or Tint DEFAULT)	7b. (Clear) 502.0 ft²			b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=0.0, 320.0(p) ft			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 80.0 gallons
	a. Frame, Wood, Exterior	R=19.0, 2248.0 ft²				EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 430.0 ft²			b. N/A	
	c. N/A					
	d. N/A				c. Conservation credits	
	e. N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 3061.0 ft²		15.	HVAC credits	
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 65.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Isaac Construction Inc. - Buchs Res.	Builder:	Isaac Construction Inc.
Address:		Permitting Office:	
City, State:	Lake City, FL 32024-	Permit Number:	
Owner:	Mark & Heather Buchs	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

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

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

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

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

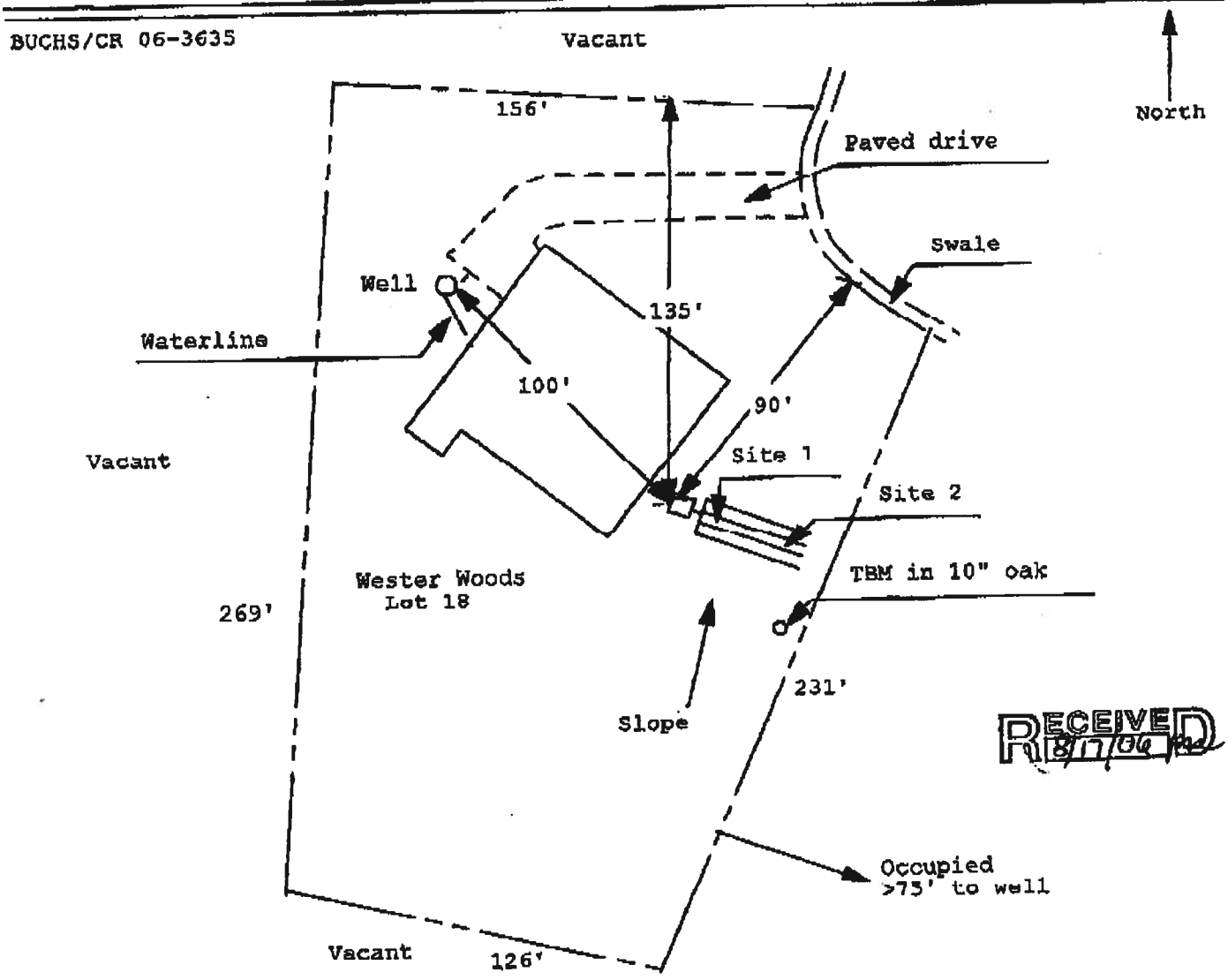
BUILDING OFFICIAL: _____

DATE: _____

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

Permit Application Number: 06-0724N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



RECEIVED 8/17/06

1 inch = 50 feet

Site Plan Submitted By Paul Lloyd Date 8/18/06

Plan Approved ✓ Not Approved ____ Date ____

By Sallie Gladdy, EHII 8-21-06 CPHU

Columbia CHD

Notes: ____

"BUILDING DREAM HOMES"

ISAAC CONSTRUCTION, L.L.C.
FINE CUSTOM HOMEBUILDING

2109 W. US HWY 90 | SUITE #170 PMB338
LAKE CITY, FL 32055

3-19-07

Mark Bucks can pick up info from the Building Dept. for Bucks Residence job.

Barbara Webb
Isaac Construction

2902

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001196

DATE 08/23/2006 PARCEL ID # 30-4S-17-08898-118

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER ISAAC HOLDINGS PHONE 719-7143

ADDRESS 138 SW PHLOX GLEN LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 47S, TL ON WESTER DR., TL ON KING ST., TR ON NIGHTSHADE, TL ON PHLOX GLEN, ON LEFT OF CUL-DE-SAC

SUBDIVISION/LOT/BLOCK/PHASE/UNIT WESTERWOOD 18

SIGNATURE

INSTALLATION REQUIREMENTS

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

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

CERTIFICATE 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 30-4S-17-08898-118 **Building permit No.** 000024902

Use Classification SFD,UTILITY **Fire:** 22.32

Permit Holder ISAAC CONSTRUCTION **Waste:** 67.00

Owner of Building ISAAC HOLDINGS **Total:** 89.32

Location: 138 SW PHLOX GLEN, LAKE CITY, FL

Date: 06/25/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

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

Reference to a building permit application Number: 0608-34

Contractor Isaac Construction Owner Isaac Construction property ID# 30-4s-17-08898-118 Lot 18 of Westerwood Subdivision

On the date of August 17, 2006 application 0608-34 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0608-34 and when making reference to this application.

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

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

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
2. The structural drawing detail Page S-3 miter glass wall requires that no truss attachment be made to this wall section. After reviewing truss drawing submitted by Anderson Truss Company several trusses do attach and require support from this miter glass wall. Please have Anderson Truss Company redesign these trusses to correct the problem.
3. The miter glass wall is part of the exterior shear walls and is required to have a windload design and Florida product approval number for the frames which house the glazed glass area.

Joe Haltiwanger

Columbia County
Plan Examiner

Product Approval
USER: Public User

FL #	FL125-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Kinco, Ltd.
Address/Phone/Email	P.O. Box 6429 5245 Old Kings Road Jacksonville, FL 32236-642 (904) 355-1476 ext 180 jim.puckett@kinco-windows.com
Authorized Signature	James Puckett jim.puckett@kinco-windows.com
Technical Representative	James Puckett
Address/Phone/Email	5245 Old Kings Rd. N. Jacksonville, FL 32254 jim.puckett@kinco-windows.com

Quality Assurance Representative Address/Phone/Email	
Category	Windows
Subcategory	Fixed
Compliance Method	Certification Mark or Listing
Certification Agency	American Architectural Manufacturers Association

Referenced Standard and Year (of Standard)	Standard	Year
	ANSI/AAMA/NWWDA 101 I.S. 2	1997

Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	09/22/2005
Date Validated	09/30/2005
Date Pending FBC Approval	09/30/2005
Date Approved	10/11/2005

Summary of Products

FL #	Model, Number or Name	Description

125.1	Mark 40/50 PW / CT	Aluminum Fixed
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** With Annealed Glass: DP35 72"x72" DP60 48"x96" With Tempered Glass: DP80 84"x84" DP80 60"x120" DP80 48"x144"		**Certification Agency Certificate** **Installation Instructions** PTID_125_R1_I_KJAX0089 - TW-TB PW-CT 1x buck.pdf PTID_125_R1_I_KJAX0090 - TW-TB PW-CT 2x buck.pdf PTID_125_R1_I_KJAX0091 - TW-TB PW-CT wood frame.pdf PTID_125_R1_I_KJAX0092 - M40-50 PW-CT 1x buck.pdf PTID_125_R1_I_KJAX0093 - M40-50 PW-CT 2x buck.pdf PTID_125_R1_I_KJAX0094 - M40-50 PW-CT wood frame.pdf Verified By:
125.2	TB PW/CT	Aluminum Fixed - Thermal Break
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** With Annealed Glass: DP50 54"X84" With Tempered Glass: DP60 60"x120"		**Certification Agency Certificate** **Installation Instructions** Verified By:
125.3	TW PW/CT	Aluminum Fixed
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** With Annealed Glass: DP50 54"X84" With Tempered Glass: DP60 60"x120"		**Certification Agency Certificate** **Installation Instructions** Verified By:

Back Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

Lot 18 Waterwa
Mark Buchs

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

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

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
☑	☐	**Elevations including:**
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation
☑	☐	d) Location, size and height above roof of chimneys
☑	☐	e) Location and size of skylights
☑	☐	f) Building height
☑	☐	e) Number of stories

Floor Plan including:

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accesssable bathroom)

Foundation Plan including:

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

Roof System:

a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall

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

☑ ☐ b) Wood frame wall

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

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

Floor Framing System:

☑ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☑ ☐ b) Floor joist size and spacing

☑ ☐ c) Girder size and spacing

☑ ☐ d) Attachment of joist to girder

☑ ☐ e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

HVAC information

☑ ☐ a) Manual J sizing equipment or equivalent computation

☑ ☐ b) Exhaust fans in bathroom

☑ ☐ **Energy Calculations** (dimensions shall match plans)

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

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-[illegible]
FAX (904) 755-70[illegible]
[illegible]
LAKE CITY, FLORIDA [illegible]
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

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

Thank you,

Donald D. Hall
DDH/jk

TAMKO
ROOFING PRODUCTS

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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

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

All testing was performed by Florida State certified independent labs.

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

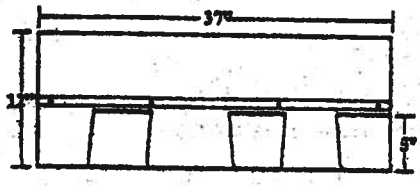
TAMKO Roofing Products, Inc.

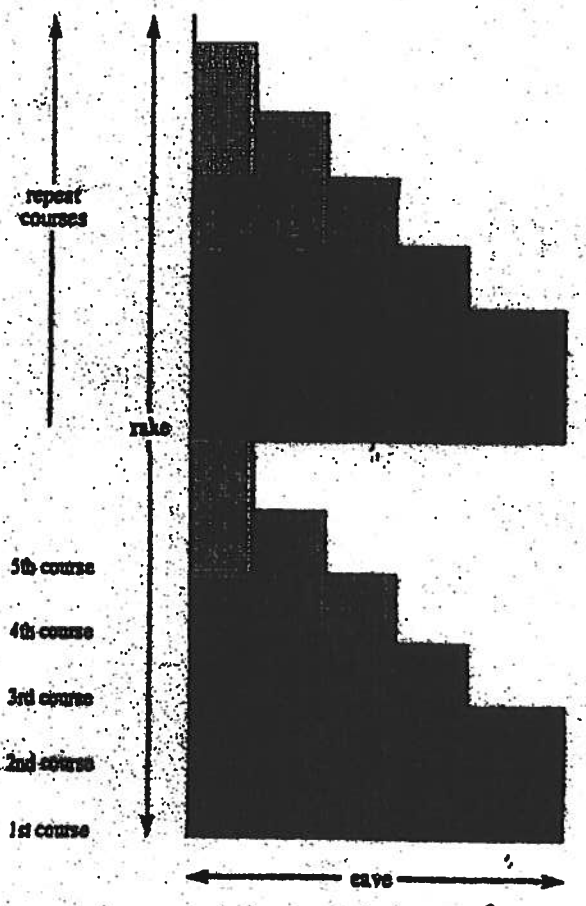
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 25 Series Shingles

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





The 4 cuts in the first 10 courses:

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

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

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

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

TAMKO ROOFING PRODUCTS

Application Instructions for

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

THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.
IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

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

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

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

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.
FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

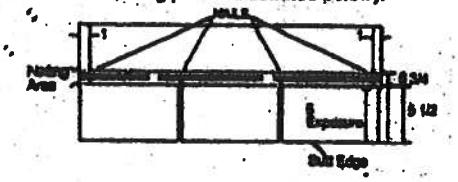
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

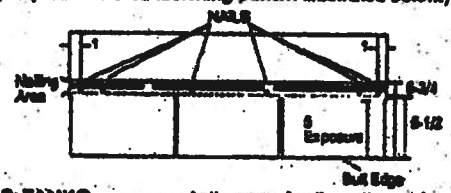
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

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



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



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

(Continued)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

C. RE-ROOFING

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

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

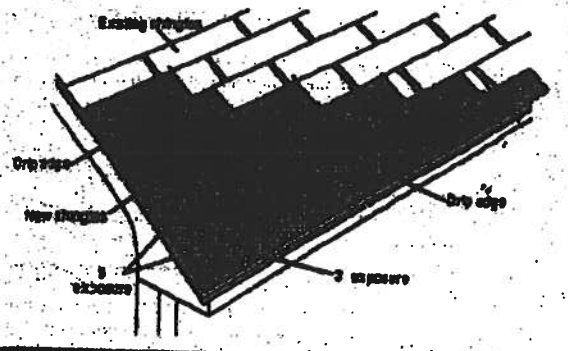
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

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

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

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



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

D. VALLEY APPLICATION

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

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

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

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

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

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

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

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

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

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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

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

10. HIP AND RIDGE FASTENING DETAIL

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

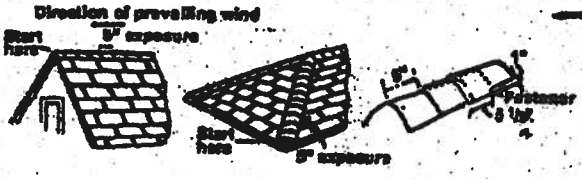
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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

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

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

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



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

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

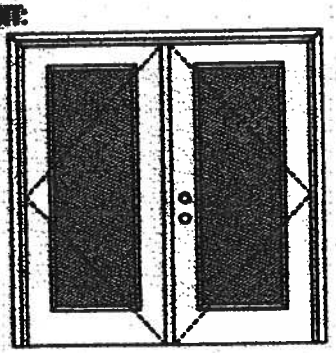
In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles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

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door
Maximum unit size – 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

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

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 155 Series


135 Series


600 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


139 Series*


250 Series*


12 RL, 28 RL, 34 RL Series*


107 Series*


108 Series


304 Series

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

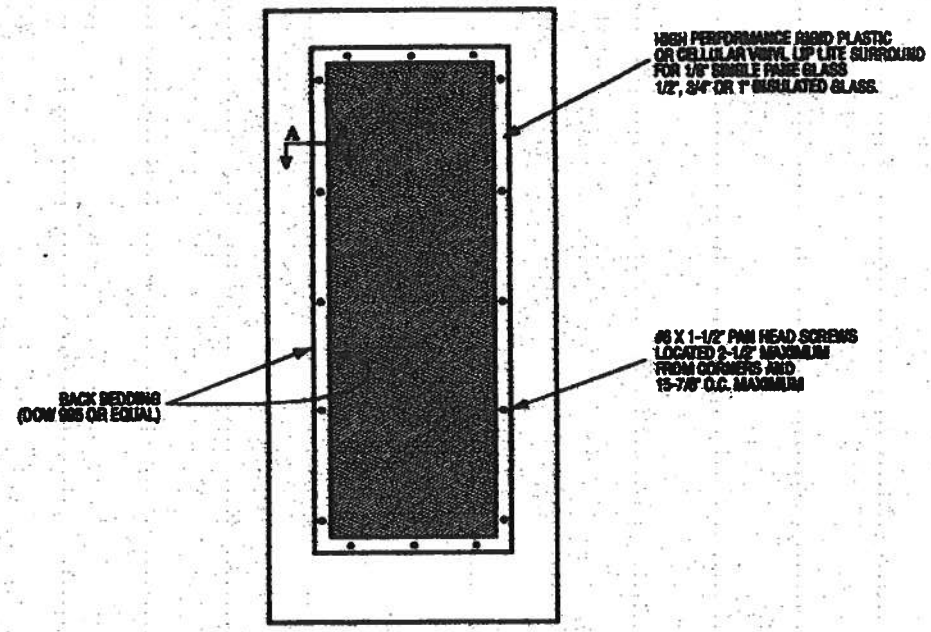
Johnson Entry Systems

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

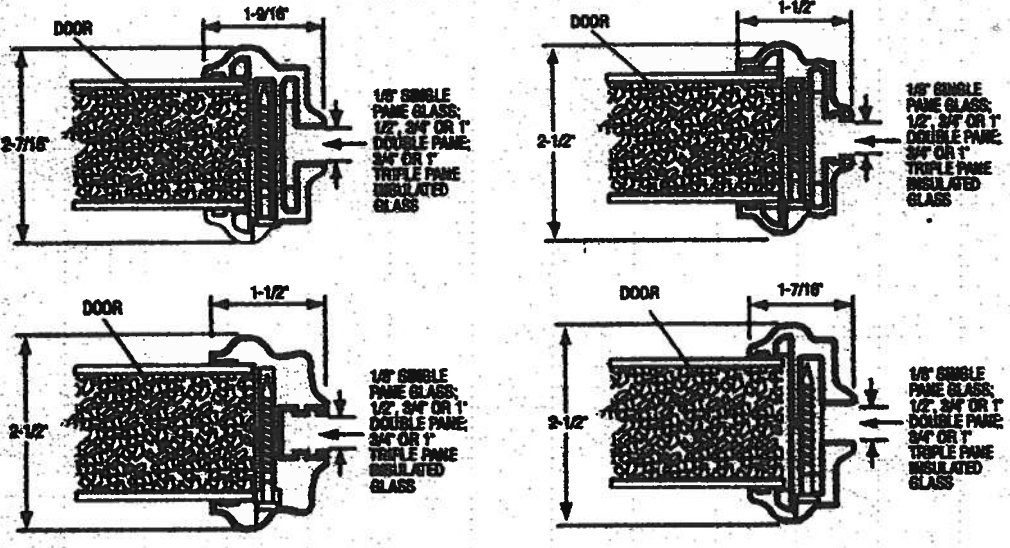
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



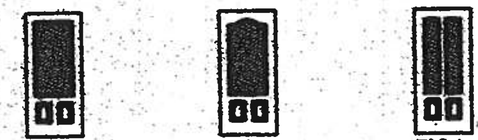
XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

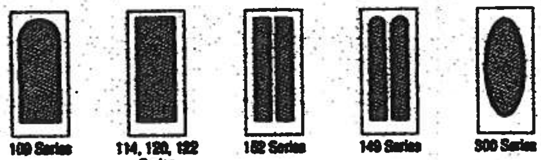
APPROVED DOOR STYLES:

3/4 GLASS:



404 Series · 416 Series · 450 Series

FULL GLASS:



100 Series · 114, 120, 122 Series · 152 Series · 140 Series · 300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

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

Johnson EntrySystems

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

PREMDOR Collection · Premium Quality Doors

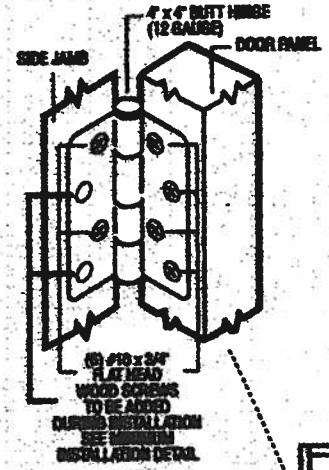
Exclusively from Masonite®
Masonite International Corporation

XX
Unit

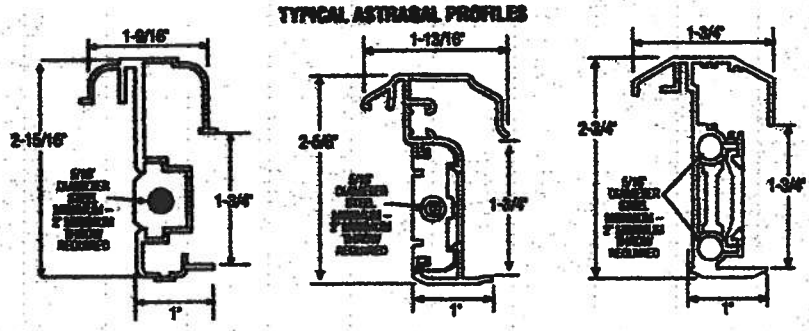
MAD-WL-MAG012-02

OUTSWING UNITS WITH DOUBLE DOOR

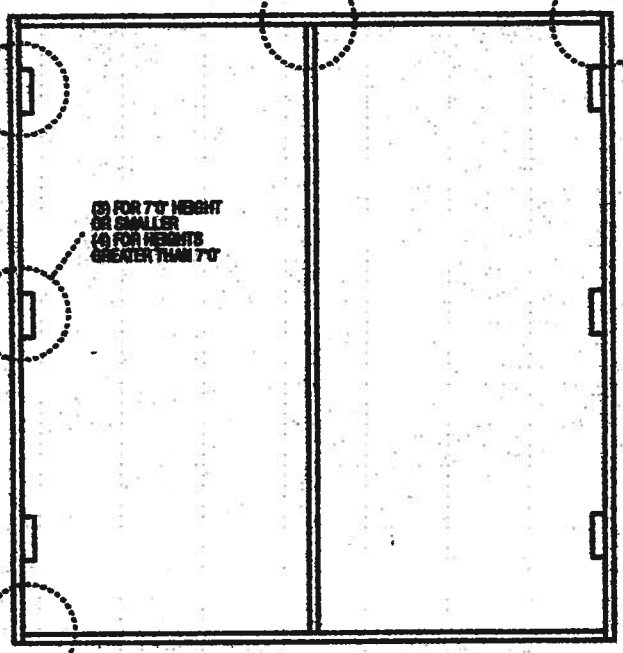
TYPICAL HINGE ATTACHMENT



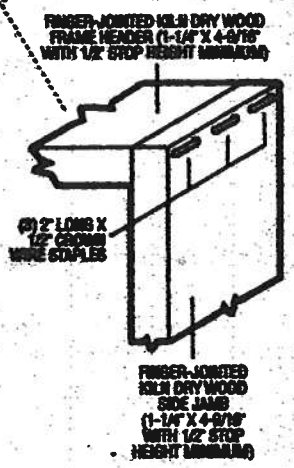
TYPICAL ASTRAGAL PROFILES



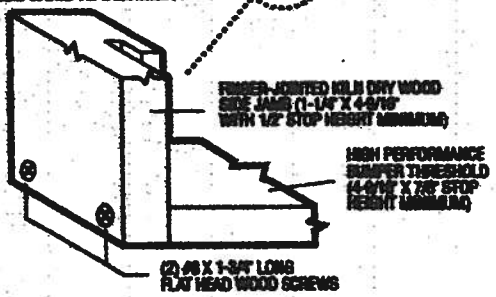
ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDERICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



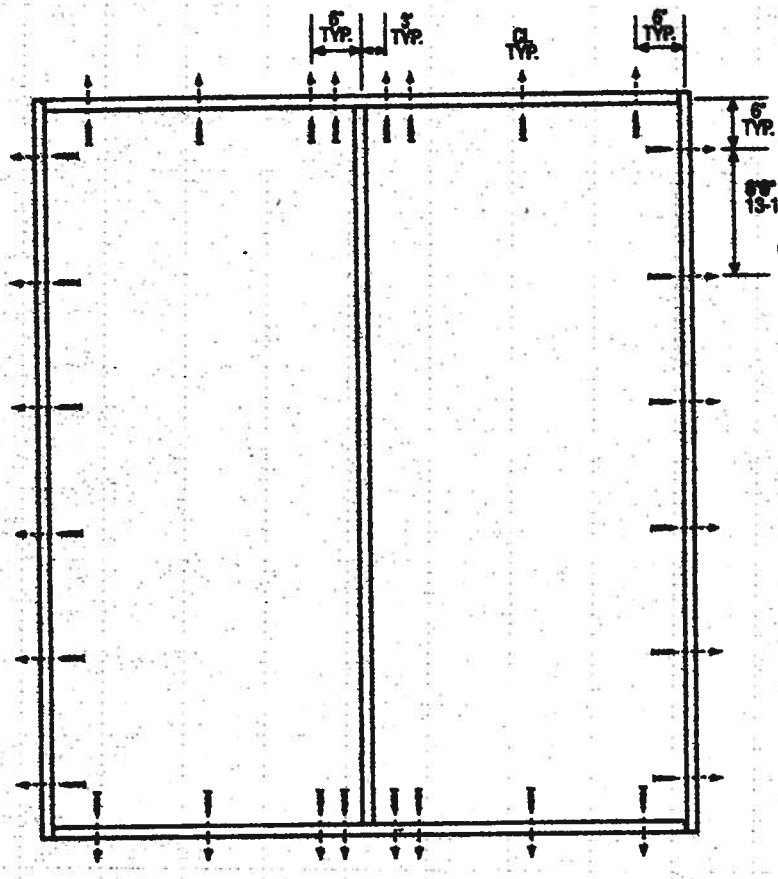
TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

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

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

Latching Hardware:

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

Notes:

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

[redacted]

March 29, 2002

I

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 32 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:mlb

ALLEN M. REEVES
No. 18354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

1 APRIL 2002

II

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

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

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

Allan N. Reeves
1 APRIL 2002

ALLAN N. REEVES
No. 12384
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

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

ALLEN N. REEVES CERTIFICATE NO. 19854 STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen N. Reeves
1 APRIL 2002

IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

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

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

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

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

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

Allen H. Reeves
1 APRIL 2002

ALLEN H. REEVES
CERTIFICATE
NO. 1857
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

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

Optional Performance

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

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

Paragraph	Title of Test - Test Method	Results	Allowed
	Uniform Load Structural (ASTM E 330-97)		
	(Measurements reported were taken on the meeting rail)		
	(Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.1[illegible]" max.
	@ 70.8 psf (negative)	0.05"	0.[illegible]" max.

LEN N. REEVES CERTIFICATE NO. 18[illegible] STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen N. Reeves
1 APRIL 2002

VI

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

For ARCHITECTURAL TESTING, INC:

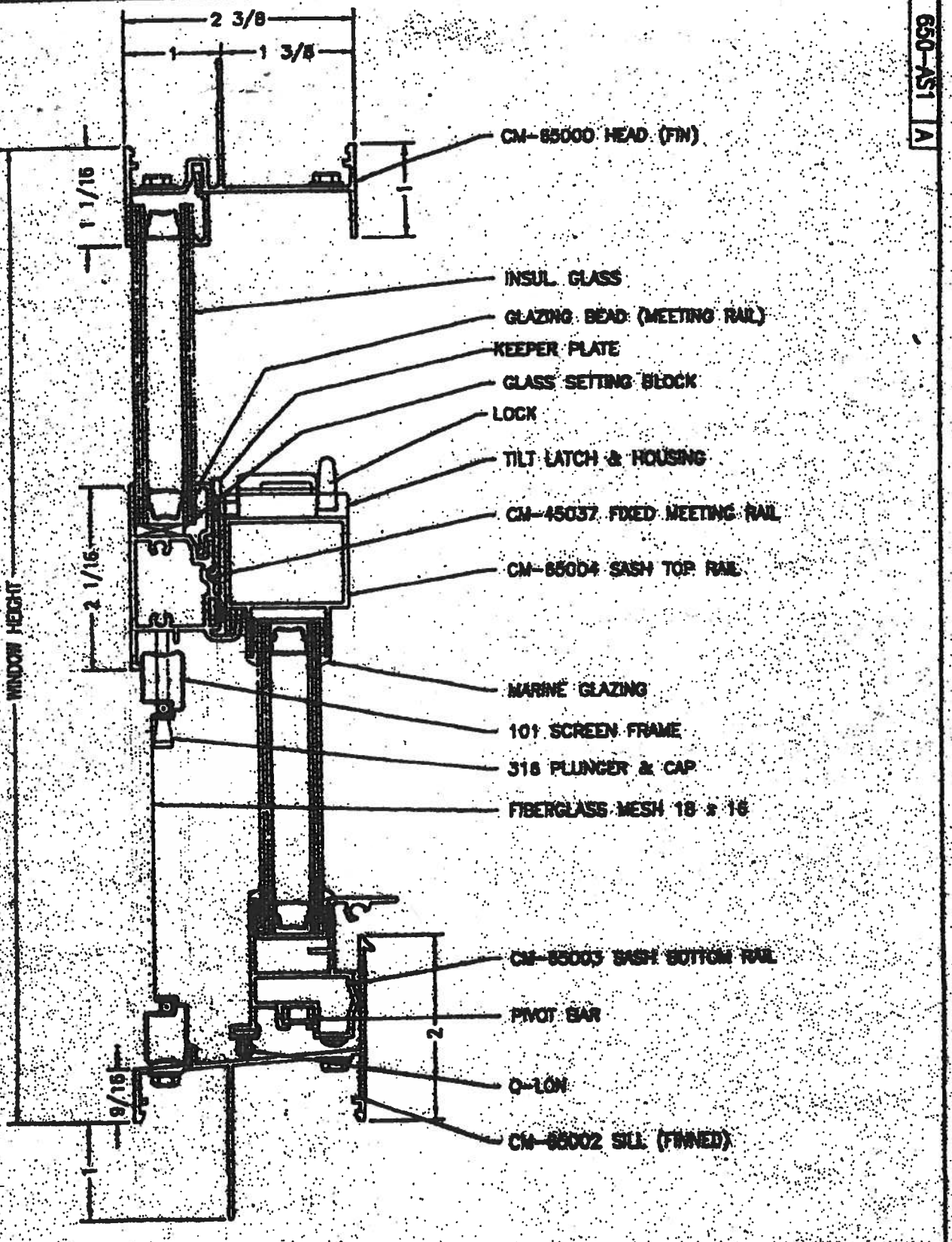
Mark A. Hess
Technician

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

MAH:nlb
01-41134.01

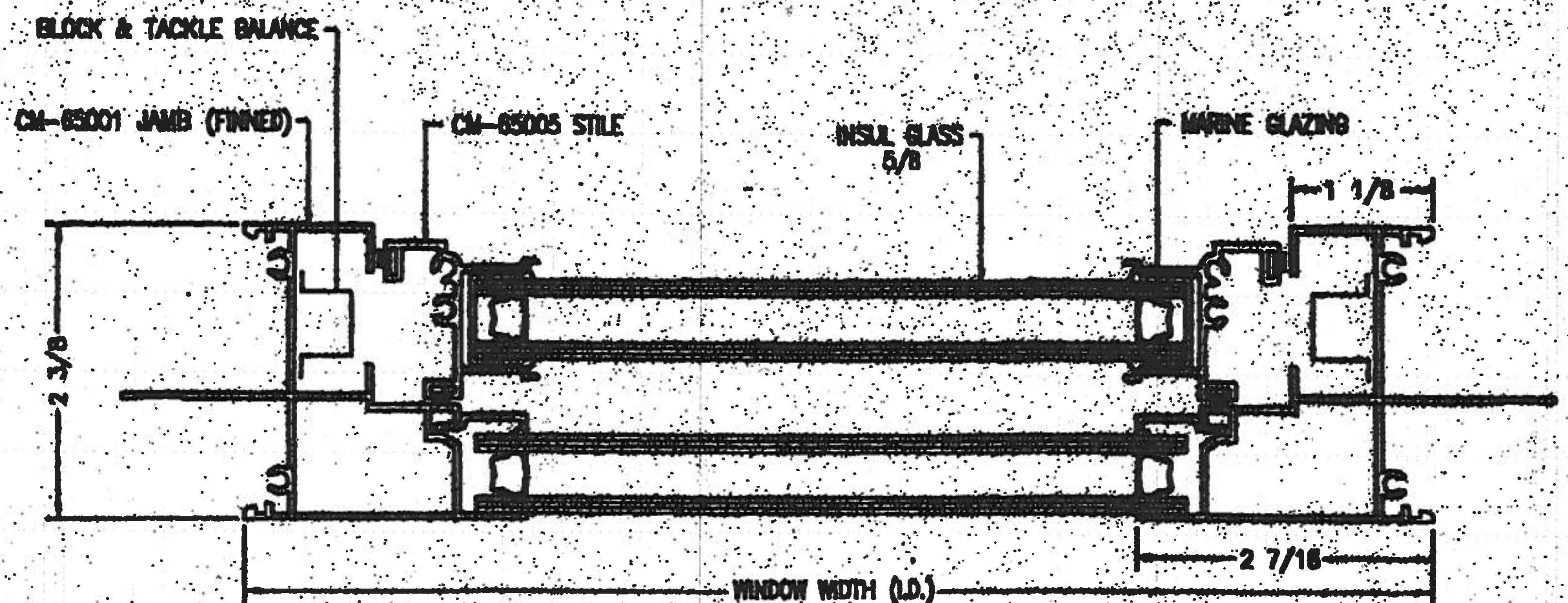
ALLEN N. REEVES
CERTIFICATE
NO. 1[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

650-AS1 A



MI HOME PRODUCTS
650 NEW MARKET STREET • ERIE, PA • 17030-0370

TITLE	650 SH FIN MAIN FRAME VERTICAL CROSS SECTION			
DRAWN BY V.M.R.	DATE 4-7-82	SCALE FULL	DRAWING NO. 650-AS1	A



850-AS2 | B

MI HOME PRODUCTS

TITLE: 850 SH FIN MAIN FRAME INSULATED GLASS HORIZONTAL CROSS SECTION

DRAWN	DATE	SCALE	DRAWING NO.	REV
T.A.R.	4-7-92	FULL	850-AS2	B

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Association | Organization Search | Organization Accreditation

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

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

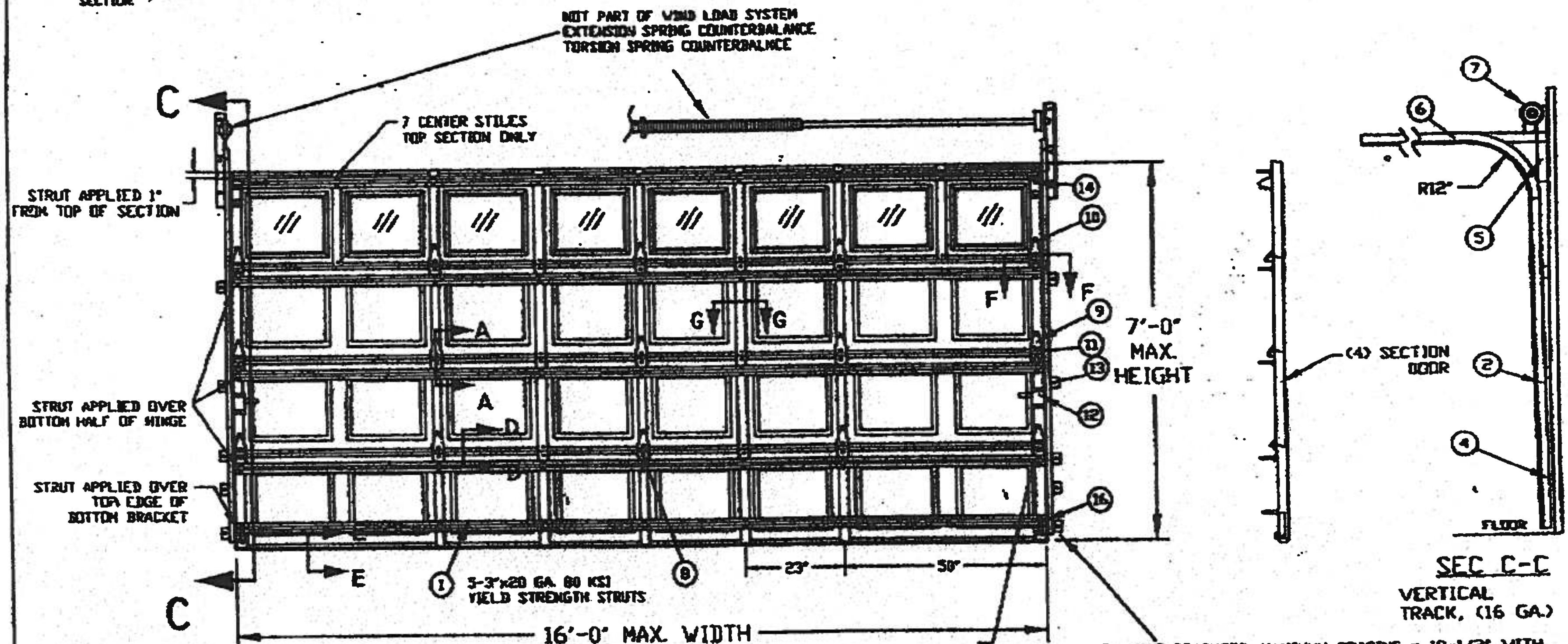
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadoo.com			

Displaying 1-1 of 1

REV.	DATE	BY	DESCRIPTION
A–A	11-10-00	DV	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. (△) DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 YASER R. YEYVAN

LISTED SBCCI PST & ESI REPORT No. 2202

TEST REPORTS ON FILE: VIDEO 10/19/00 (00293)

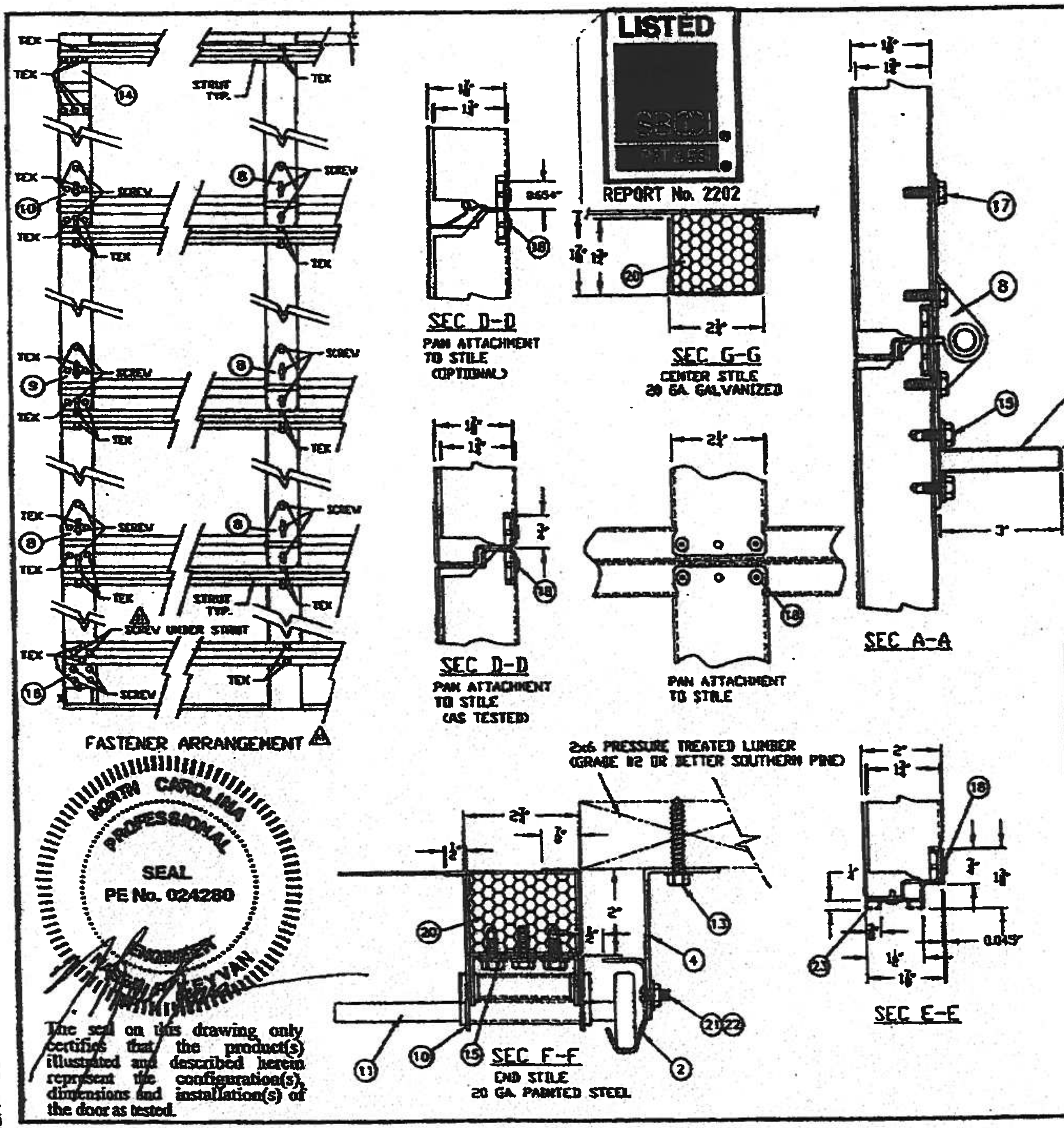
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN △
SERIES 7524, EXTERIOR STEEL =.024" MIN △
(TESTED WITH WINDOWS)

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

GADCO — GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

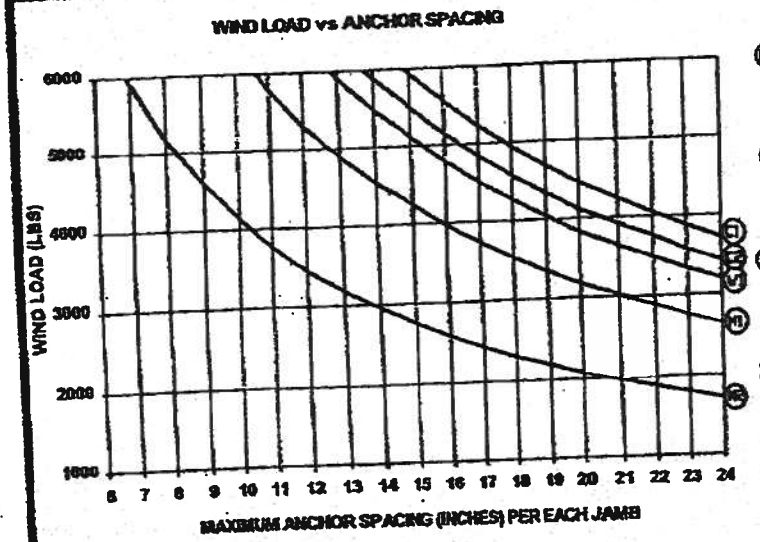
SCALE: 1/25 | APPROVED BY: | DRAWN BY: D. VECCHIONI
DATE: 10-20-00 | REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PART NUMBER: | PAGE 1 OF 2 | DRAWING NUMBER: W13220-1



ITEM	PART NO.	DESCRIPTION
23	[illegible]	BOTTOM RAIL [illegible] ALUM EXT.
22	[illegible]	1/4-20 X 5/8" [illegible] SCREW
21	[illegible]	1/4-20 SERRATED FLANGE NUT
20		[illegible] FILLER BLOCK EPS
19		
18	[illegible]	POP RIVET [illegible] STEEL
17	[illegible]	HEX WASHERHEAD SCREW 1/4-20 X 3/4"
16	[illegible]	BOTTOM ROLLER BRACKET
15	[illegible]	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	[illegible]	TOP SUPPORT BRACKET
13	[illegible]	[illegible] LAG SCREW
12	[illegible]	SIDE LOCK
11	[illegible]	LONG STEM ROLLER 2"
10	[illegible]	ROLLER CARRIER HINGE [illegible]
9	[illegible]	ROLLER CARRIER HINGE [illegible]
8	[illegible]	ROLLER CARRIER HINGE [illegible]
7		COUNTERBALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	[illegible]	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT (20 GA) MIN. YIELD STR. 80KSI

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE
DATE: 11-7-00
DRAWN BY: D. VICKMAN
REVISED: (B) 12-1-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR-WINDLOAD ±20 PSF
PAGE 2 OF 2
DRAWING NUMBER: V13228-2



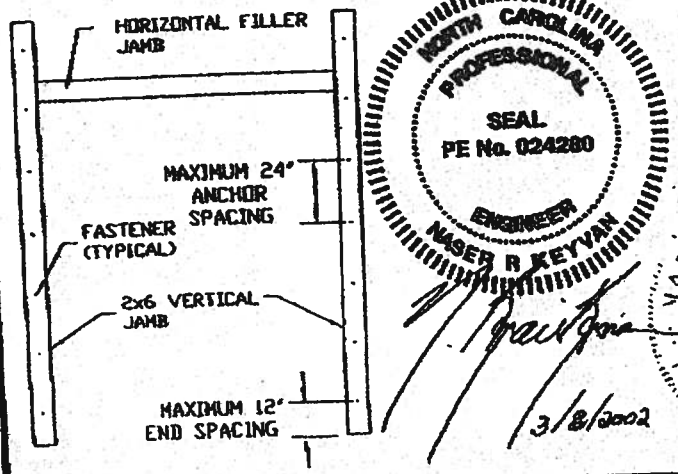
DESIGN LOAD (LBS)/FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

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

- (C1) USE 22" SPACING
- (C2) USE 21" SPACING
- (W1) USE 19" SPACING
- (M1) USE 16" SPACING
- (M2) USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.

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

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI; GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

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

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

DRAWN BY: MDNE	APPROVED BY:	DRAWING NO: DV
DATE: 8-30-99		REVISIONS
DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		
	MASTER DRAWING NUMBER: A10560	DRAWING NUMBER

Residential System Sizing Calculation

Summary

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

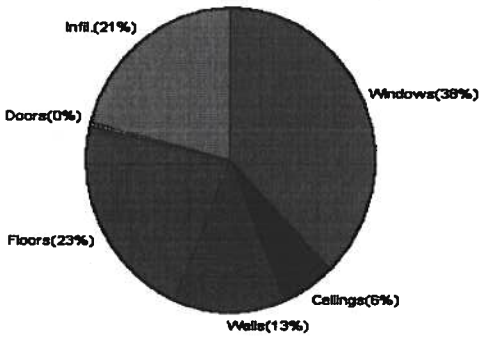
7/20/2006

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	**62059**	**Btuh**	**Total cooling load calculation**	**59242**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.2	74000	Sensible (SHR = 0.75)	115.8	55500
Heat Pump + Auxiliary(0.0kW)	119.2	74000	Latent	163.7	18500
			Total (Electric Heat Pump)	124.9	74000

WINTER CALCULATIONS

Winter Heating Load (for 2961 sqft)

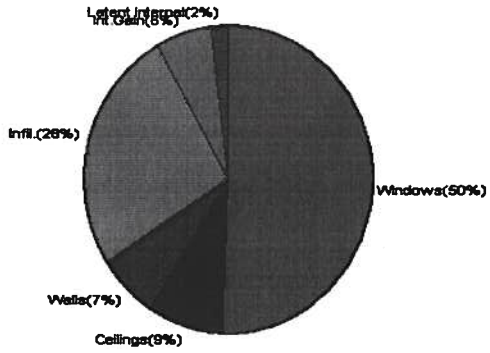
Load component			Load	
Window total	502	sqft	23589	Btuh
Wall total	2678	sqft	7839	Btuh
Door total	20	sqft	259	Btuh
Ceiling total	3061	sqft	3607	Btuh
Floor total	320	sqft	13971	Btuh
Infiltration	316	cfm	12794	Btuh
Duct loss			0	Btuh
Subtotal			**62059**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**62059**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2961 sqft)

Load component			Load	
Window total	502	sqft	29735	Btuh
Wall total	2678	sqft	4019	Btuh
Door total	20	sqft	196	Btuh
Ceiling total	3061	sqft	5069	Btuh
Floor total			0	Btuh
Infiltration	276	cfm	5143	Btuh
Internal gain			3780	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**47942**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			10100	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**11300**	**Btuh**
TOTAL HEAT GAIN			**59242**	**Btuh**



Prepared by ACCA MANUAL J

For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Jon Morris
DATE: 7-20-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

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

7/20/2006

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	45.0	47.0	2115 Btuh
2	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
3	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
4	1, Clear, Metal, 1.27	W	80.0	47.0	3759 Btuh
5	1, Clear, Metal, 1.27	N	77.0	47.0	3618 Btuh
6	1, Clear, Metal, 1.27	S	40.0	47.0	1880 Btuh
7	1, Clear, Metal, 1.27	N	30.0	47.0	1410 Btuh
8	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
9	1, Clear, Metal, 1.27	N	16.0	47.0	752 Btuh
10	1, Clear, Metal, 1.27	NE	21.0	47.0	987 Btuh
11	1, Clear, Metal, 1.27	E	63.0	47.0	2960 Btuh
12	1, Clear, Metal, 1.27	SE	21.0	47.0	987 Btuh
13	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
14	1, Clear, Metal, 1.27	E	18.0	47.0	846 Btuh
15	1, Clear, Metal, 1.27	S	15.0	47.0	705 Btuh
16	1, Clear, Metal, 1.27	S	4.0	47.0	188 Btuh
	Window Total		502(sqft)		23589 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	2248	2.9	6427 Btuh
2	Frame - Wood - Adj(0.09)	13.0	430	3.3	1412 Btuh
	Wall Total		2678		7839 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		20		259Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3061	1.2	3607 Btuh
	Ceiling Total		3061		3607Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	320.0 ft(p)	43.7	13971 Btuh
	Floor Total		320		13971 Btuh
			Zone Envelope Subtotal:		49266 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	23688	315.8	12794 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**62059 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

7/20/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	62059 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	62059 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

Mark & Heather Buchs
Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

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

7/20/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	45.0	47.0	2115 Btuh
2	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
3	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
4	1, Clear, Metal, 1.27	W	80.0	47.0	3759 Btuh
5	1, Clear, Metal, 1.27	N	77.0	47.0	3618 Btuh
6	1, Clear, Metal, 1.27	S	40.0	47.0	1880 Btuh
7	1, Clear, Metal, 1.27	N	30.0	47.0	1410 Btuh
8	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
9	1, Clear, Metal, 1.27	N	16.0	47.0	752 Btuh
10	1, Clear, Metal, 1.27	NE	21.0	47.0	987 Btuh
11	1, Clear, Metal, 1.27	E	63.0	47.0	2960 Btuh
12	1, Clear, Metal, 1.27	SE	21.0	47.0	987 Btuh
13	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
14	1, Clear, Metal, 1.27	E	18.0	47.0	846 Btuh
15	1, Clear, Metal, 1.27	S	15.0	47.0	705 Btuh
16	1, Clear, Metal, 1.27	S	4.0	47.0	188 Btuh
	Window Total		502(sqft)		23589 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	2248	2.9	6427 Btuh
2	Frame - Wood - Adj(0.09)	13.0	430	3.3	1412 Btuh
	Wall Total		2678		7839 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		20		259Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3061	1.2	3607 Btuh
	Ceiling Total		3061		3607Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	320.0 ft(p)	43.7	13971 Btuh
	Floor Total		320		13971 Btuh
			Zone Envelope Subtotal:		49266 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	23688	315.8	12794 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**62059 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

7/20/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	62059 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	62059 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

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 7/20/2006

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	45.0	0.0	45.0	37	94	4232 Btuh
2	1, Clear, 1.27, None,N,N	N	8.5ft	10ft.	6.0	0.0	6.0	37	37	225 Btuh
3	1, Clear, 1.27, None,N,N	N	20.5f	10ft.	20.0	0.0	20.0	37	37	749 Btuh
4	1, Clear, 1.27, None,N,N	W	20.5f	10ft.	80.0	80.0	0.0	37	94	2996 Btuh
5	1, Clear, 1.27, None,N,N	N	15.5f	10ft.	77.0	0.0	77.0	37	37	2884 Btuh
6	1, Clear, 1.27, None,N,N	S	4.5ft	10ft.	40.0	40.0	0.0	37	43	1498 Btuh
7	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	30.0	0.0	30.0	37	37	1124 Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	6.0	0.0	6.0	37	37	225 Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	16.0	0.0	16.0	37	37	599 Btuh
10	1, Clear, 1.27, None,N,N	NE	1.5ft	10ft.	21.0	0.0	21.0	37	72	1517 Btuh
11	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	63.0	0.0	63.0	37	94	5925 Btuh
12	1, Clear, 1.27, None,N,N	SE	1.5ft	10ft.	21.0	0.0	21.0	37	75	1576 Btuh
13	1, Clear, 1.27, None,N,N	E	7.5ft	13ft.	40.0	0.0	40.0	37	94	3762 Btuh
14	1, Clear, 1.27, None,N,N	E	2.5ft	10ft.	18.0	0.0	18.0	37	94	1693 Btuh
15	1, Clear, 1.27, None,N,N	S	1.5ft	10.0	15.0	13.3	1.7	37	43	571 Btuh
16	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	4.0	2.0	2.0	37	43	160 Btuh
	Window Total				502 (sqft)					29735 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	19.0/0.08	2248.0	1.5	3370 Btuh
2	Frame - Wood - Adj	13.0/0.09	430.0	1.5	649 Btuh
	Wall Total		2678 (sqft)		4019 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
	Door Total	20 (sqft)		196 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3061.0	1.7	5069 Btuh
	Ceiling Total		3061 (sqft)		5069 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	320 (ft(p))	0.0	0 Btuh
	Floor Total		320.0 (sqft)		0 Btuh

				Zone Envelope Subtotal:	39019 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	23688	276.4	5143 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	6	X 230	+	2400	3780 Btuh

Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh

	Sensible Zone Load	**47942 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

7/20/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**47942**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**47942**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
	Total sensible gain	**47942**	**Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	10100	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	**11300**	**Btuh**
	TOTAL GAIN	**59242**	**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

Mark & Heather Buchs
Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

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

7/20/2006

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	45.0	0.0	45.0	37	94	4232 Btuh
2	1, Clear, 1.27, None,N,N	N	8.5ft	10ft.	6.0	0.0	6.0	37	37	225 Btuh
3	1, Clear, 1.27, None,N,N	N	20.5f	10ft.	20.0	0.0	20.0	37	37	749 Btuh
4	1, Clear, 1.27, None,N,N	W	20.5f	10ft.	80.0	80.0	0.0	37	94	2996 Btuh
5	1, Clear, 1.27, None,N,N	N	15.5f	10ft.	77.0	0.0	77.0	37	37	2884 Btuh
6	1, Clear, 1.27, None,N,N	S	4.5ft	10ft.	40.0	40.0	0.0	37	43	1498 Btuh
7	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	30.0	0.0	30.0	37	37	1124 Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	6.0	0.0	6.0	37	37	225 Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	16.0	0.0	16.0	37	37	599 Btuh
10	1, Clear, 1.27, None,N,N	NE	1.5ft	10ft.	21.0	0.0	21.0	37	72	1517 Btuh
11	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	63.0	0.0	63.0	37	94	5925 Btuh
12	1, Clear, 1.27, None,N,N	SE	1.5ft	10ft.	21.0	0.0	21.0	37	75	1576 Btuh
13	1, Clear, 1.27, None,N,N	E	7.5ft	13ft.	40.0	0.0	40.0	37	94	3762 Btuh
14	1, Clear, 1.27, None,N,N	E	2.5ft	10ft.	18.0	0.0	18.0	37	94	1693 Btuh
15	1, Clear, 1.27, None,N,N	S	1.5ft	10.0	15.0	13.3	1.7	37	43	571 Btuh
16	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	4.0	2.0	2.0	37	43	160 Btuh
	Window Total				502 (sqft)					29735 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	19.0/0.08	2248.0	1.5	3370 Btuh
2	Frame - Wood - Adj	13.0/0.09	430.0	1.5	649 Btuh
	Wall Total		2678 (sqft)		4019 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
	Door Total	20 (sqft)		196 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3061.0	1.7	5069 Btuh
	Ceiling Total		3061 (sqft)		5069 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	320 (ft(p))	0.0	0 Btuh
	Floor Total		320.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		39019 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	23688	276.4	5143 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	2400	3780 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
				Sensible Zone Load	**47942 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

Code Only
Professional Version
Climate: North

7/20/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**47942**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**47942**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
	Total sensible gain	**47942**	**Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	10100	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	**11300**	**Btuh**
	TOTAL GAIN	**59242**	**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

Mark & Heather Buchs

Lake City, FL 32024-

Project Title:
Isaac Construction Inc. - Buchs Res.

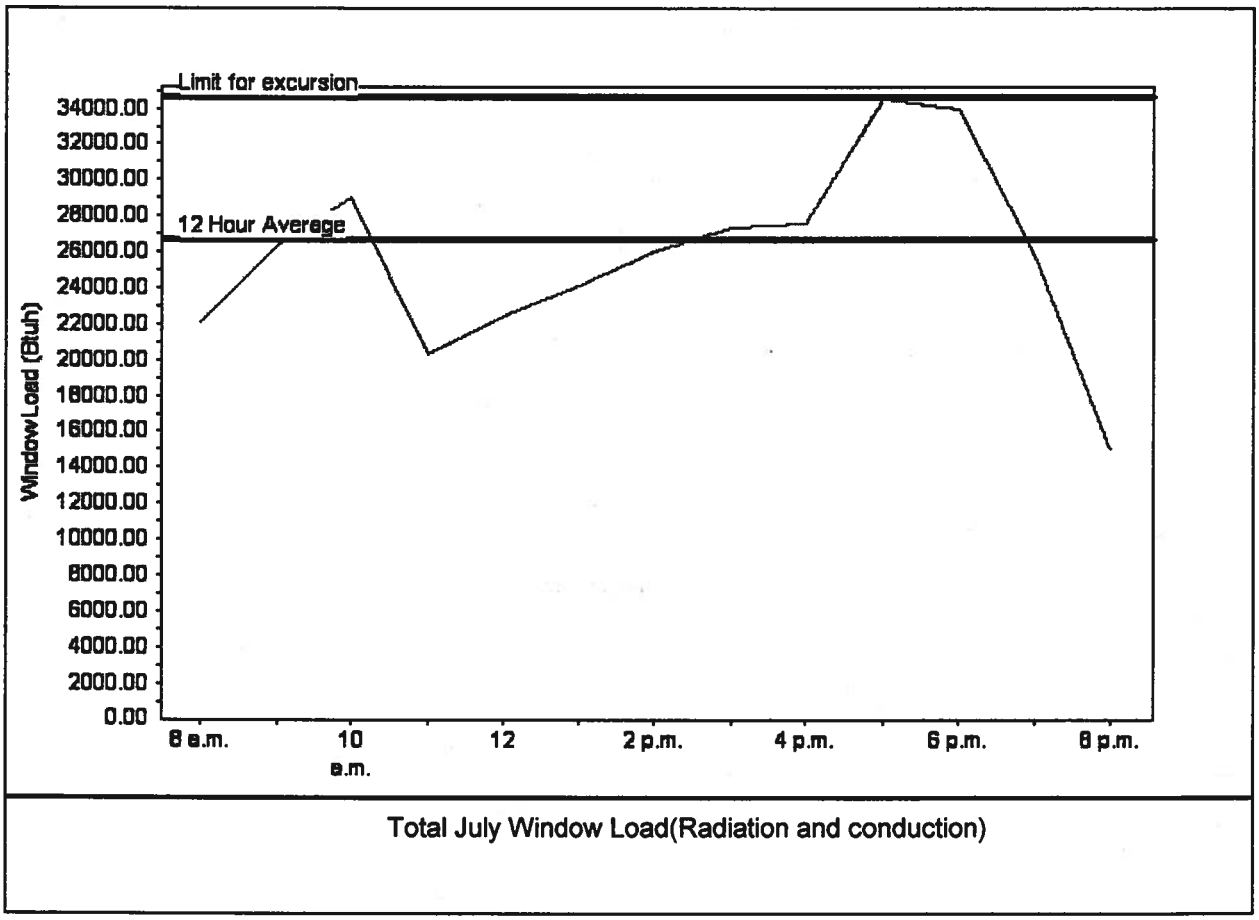
Code Only
Professional Version
Climate: North

7/20/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	26626 Btu
Summer setpoint	75 F	Peak window load for July	34544 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	34614 Btu
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

The midsummer window load for this house does not exceed the window load excursion limit.

This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

SW: Weeg: C

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000001196

DATE: 03/20/2007 BUILDING PERMIT NO. 24902

APPLICANT MARK BUCHS PHONE 752-2281

ADDRESS 2109 W US 90 LAKE CITY FL 32025

OWNER ISAAC HOLDINGS PHONE 719-7143

ADDRESS 138 SW PHLOX GLEN LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 47S, TL ON WESTER DR., TL ON KING ST., TR ON NIGHTSHADE, TL ON PHLOX GLEN, ON LEFT OF CUL-DE-SAC

SUBDIVISION/LOT/BLOCK/PHASE/UNIT WESTERWOOD 18

PARCEL ID # 30-4S-17-08898-118

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

SIGNATURE: [signature]

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

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

✓ APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: _____

SIGNED: [signature] DATE: 3-26-07

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

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

COLUMBIA COUNTY GATEWAY TO FLORIDA

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1SZR487-Z0315103350

Truss Fabricator:	Anderson Truss Company
Job Identification:	6-277--Isaac Construction Buchs -- , **
Truss Count:	94
Model Code:	Florida Building Code 2004
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.24, 7.25.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 55.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: BRCLBSUB-CNBRGBLK-PIGBACKA-PIGBACKB-

Seal Date: 08/15/2006

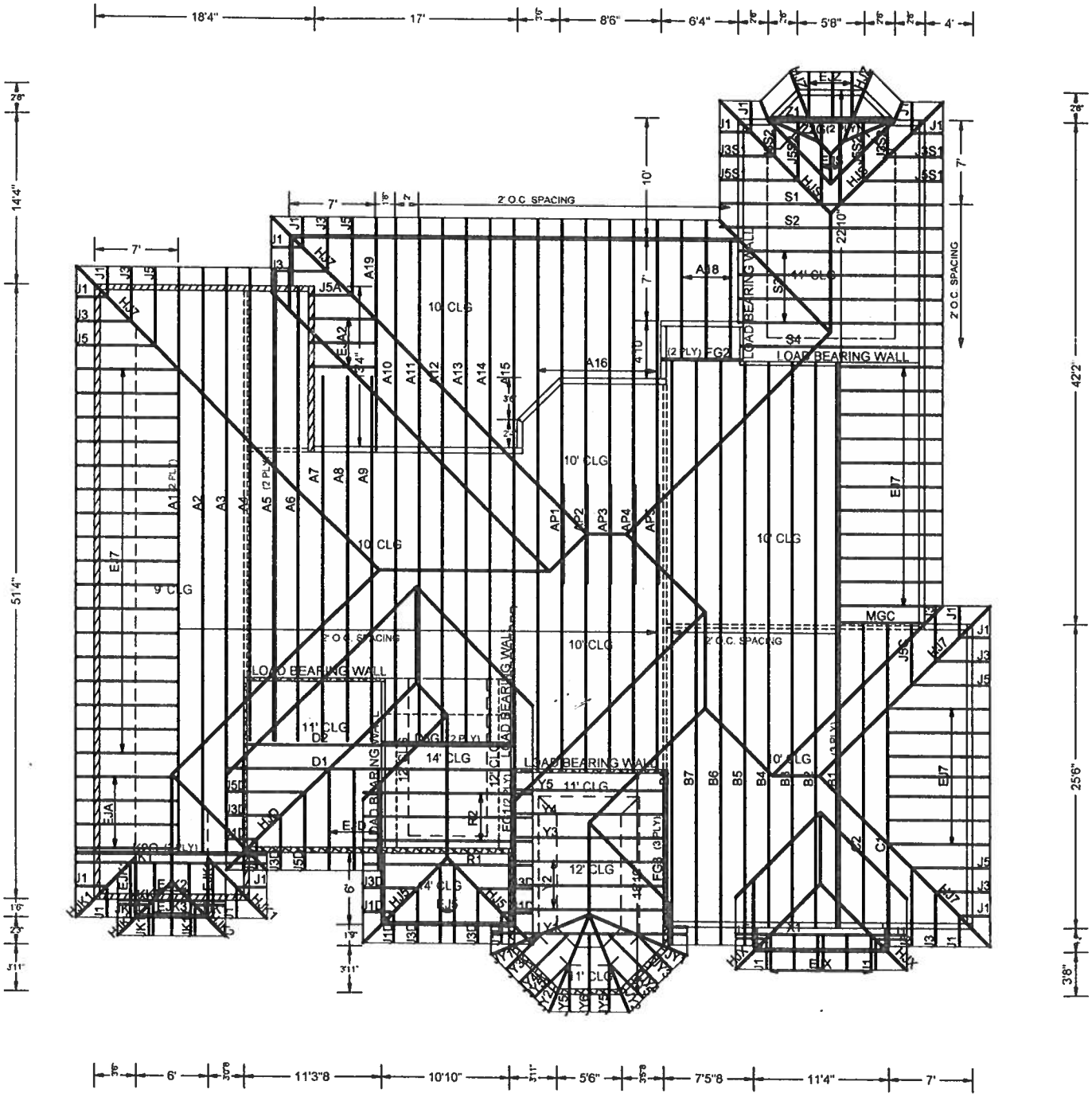
-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	46513	--A1	06226034	08/14/06
2	46514	--A2	06226036	08/14/06
3	46515	--A3	06226037	08/14/06
4	46516	--A4	06226038	08/14/06
5	46517	--A5	06226079	08/14/06
6	46518	--A6	06226052	08/14/06
7	46519	--A7	06226039	08/14/06
8	46520	--A8	06226040	08/14/06
9	46521	--A9	06226041	08/14/06
10	46522	--A10	06226060	08/14/06
11	46523	--A11	06226043	08/14/06
12	46524	--A12	06226044	08/14/06
13	46525	--A13	06226046	08/14/06
14	46526	--A14	06226047	08/14/06
15	46527	--A15	06226048	08/14/06
16	46528	--A16	06226049	08/14/06
17	46529	--A18	06226080	08/14/06
18	46530	--A19	06226081	08/14/06
19	46531	--B1	06226057	08/14/06
20	46532	--B2	06226007	08/14/06
21	46533	--B3	06226008	08/14/06
22	46534	--B4	06226014	08/14/06
23	46535	--B5	06226009	08/14/06
24	46536	--B6	06226010	08/14/06
25	46537	--B7	06226011	08/14/06
26	46538	--B8	06226012	08/14/06
27	46539	--C1	06226016	08/14/06
28	46540	--C2	06226017	08/14/06
29	46541	--D1	06226057	08/14/06
30	46542	--D2	06226059	08/14/06
31	46543	--D3G	06226058	08/14/06
32	46544	--FG1	06226061	08/14/06
33	46545	--FG2	06226015	08/14/06
34	46546	--FG3	06226026	08/14/06
35	46547	--Z2G	06226028	08/14/06
36	46548	--HJ7	06226018	08/14/06
37	46549	--EJ7	06226021	08/14/06
38	46550	--EJ5	06226084	08/14/06

#	Ref	Description	Drawing#	Date
39	46551	--EJA1	06226056	08/14/06
40	46552	--EJA2	06226062	08/14/06
41	46553	--EJD	06226069	08/14/06
42	46554	--EJK1	06226045	08/14/06
43	46555	--EJK2	06226054	08/14/06
44	46556	--EJK3	06226005	08/14/06
45	46557	--EJS	06226074	08/14/06
46	46558	--EJX	06226027	08/14/06
47	46559	--EJZ	06226030	08/14/06
48	46560	--HJ5	06226083	08/14/06
49	46561	--HJD	06226063	08/14/06
50	46562	--J3D	06226066	08/14/06
51	46563	--J1D	06226067	08/14/06
52	46564	--HJK1	06226024	08/14/06
53	46565	--HJK2	06226076	08/14/06
54	46566	--HJS	06226070	08/14/06
55	46567	--HJX	06226025	08/14/06
56	46568	--HJZ	06226029	08/14/06
57	46569	--J5	06226019	08/14/06
58	46570	--J3	06226020	08/14/06
59	46571	--J1	06226035	08/14/06
60	46572	--JY1	06226090	08/14/06
61	46573	--JY2	06226091	08/14/0
62	46574	--JY3	06226003	08/14/0
63	46575	--JY4	06226004	08/14/0
64	46576	--JY5	06226092	08/14/0
65	46577	--JY6	06226093	08/14/0
66	46578	--J3S1	06226072	08/14/0
67	46579	--J3S2	06226073	08/14/0
68	46580	--J5A	06226068	08/14/0
69	46581	--J5C	06226022	08/14/0
70	46582	--J5D	06226064	08/14/0
71	46583	--JK1	06226085	08/14/0
72	46584	--J5S1	06226071	08/14/0
73	46585	--J5S2	06226042	08/14/0
74	46586	--MGC	06226006	08/14/0
75	46587	--K1	06226001	08/14/0
76	46588	--K2G	06226013	08/14/0

#	Ref	Description	Drawing#	Date
77	46589	--KK1	06226065	08/14/06
78	46590	--AP1	06226055	08/14/06
79	46591	--AP2	06226050	08/14/06
80	46592	--AP3	06226051	08/14/06
81	46593	--AP4	06226053	08/14/06
82	46594	--R1	06226078	08/14/06
83	46595	--R2	06226082	08/14/06
84	46596	--S1	06226031	08/14/06
85	46597	--S2	06226077	08/14/06
86	46598	--S3	06226032	08/14/06
87	46599	--S4	06226033	08/14/06
88	46600	--X1	06226023	08/14/06
89	46601	--Y1	06226002	08/14/06
90	46602	--Y2	06226086	08/14/06
91	46603	--Y3	06226087	08/14/06
92	46604	--Y4	06226088	08/14/06
93	46605	--Y5	06226089	08/14/06
94	46606	--Z1	06226075	08/14/06

0608-34



#6-277 ISAAC CONSTRUCTION - BUCHS

REV. 8/11/06

Top chord 2x6 SP #1 Dense :T1, T5 2x4 SP #2 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W3, W13 2x6 SP #2:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 120" OC.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-7-9 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 1-7-9 overhang. Right side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Box_or_Gun_(0.128"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.

Calculated horizontal deflection is 0.11" due to live load and 0.15" due to dead load.

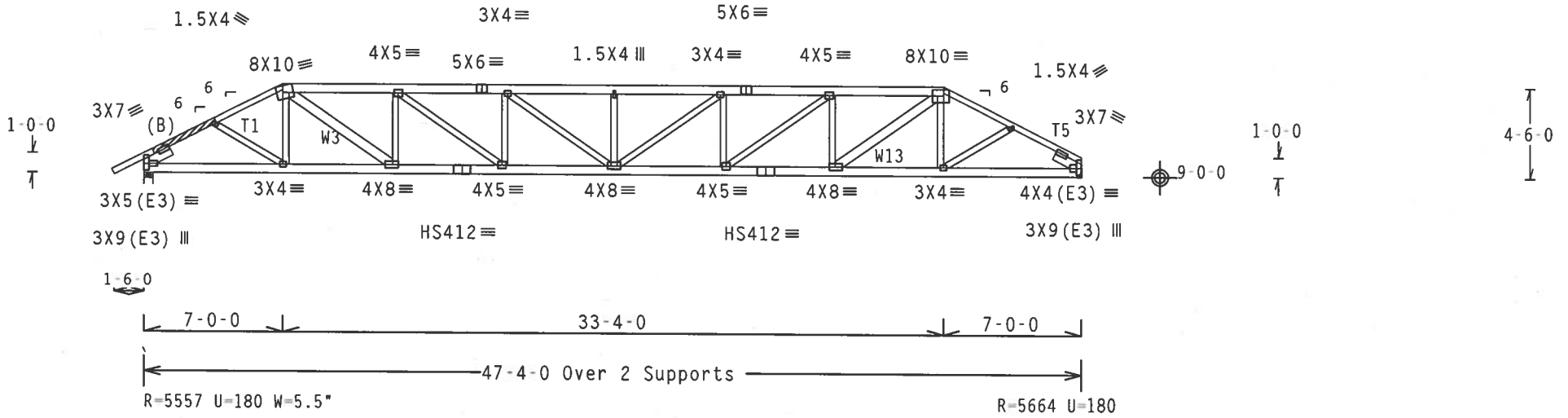
#1 hip supports 7-0-0 jacks with no webs.

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

Calculated vertical deflection is 0.54" due to live load and 0.73" due to dead load at X = 23-8-0.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

(B) (1) 2x4X3-6-0 SP #2 Dense Top chord scab centered 2-1-4 from left end. Attach to one face of chord with (2) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" 0.C., staggered 3".



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

IMPORTANTFURNISH 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/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) 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 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 of Authorization # 567

JAMES F. COLLINS, JR. LICENSE No. 52712 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46513
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226034
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119756
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

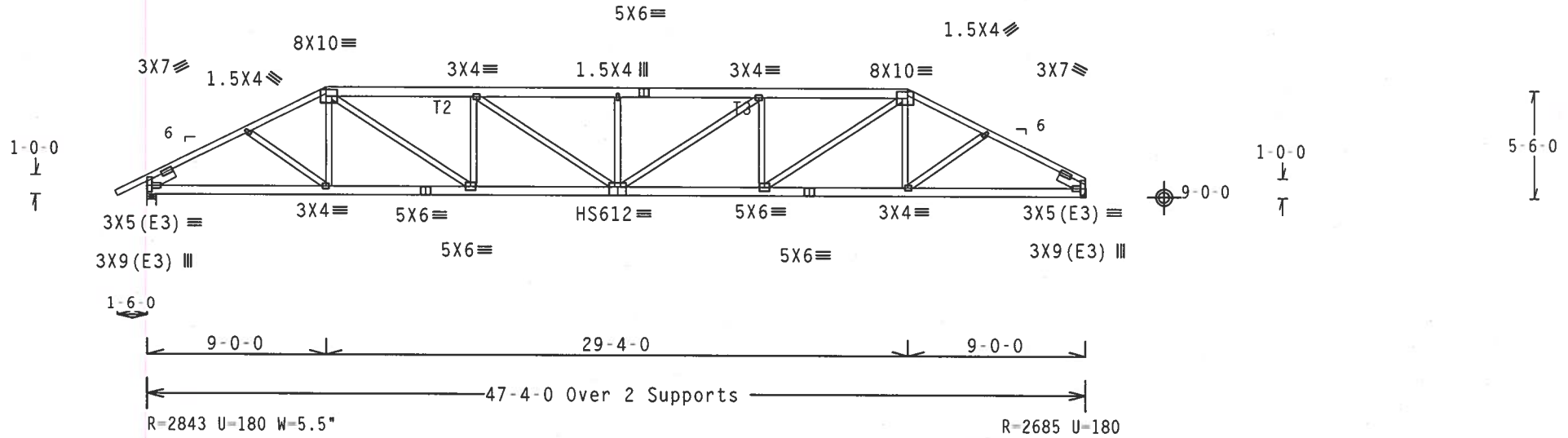
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	47.33
BC	120	0.00	47.33



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 1P QTY 1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15, 06

TC LL	30.0 PSF	REF R487-- 46514
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226036
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119770
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.733'
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.733'

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

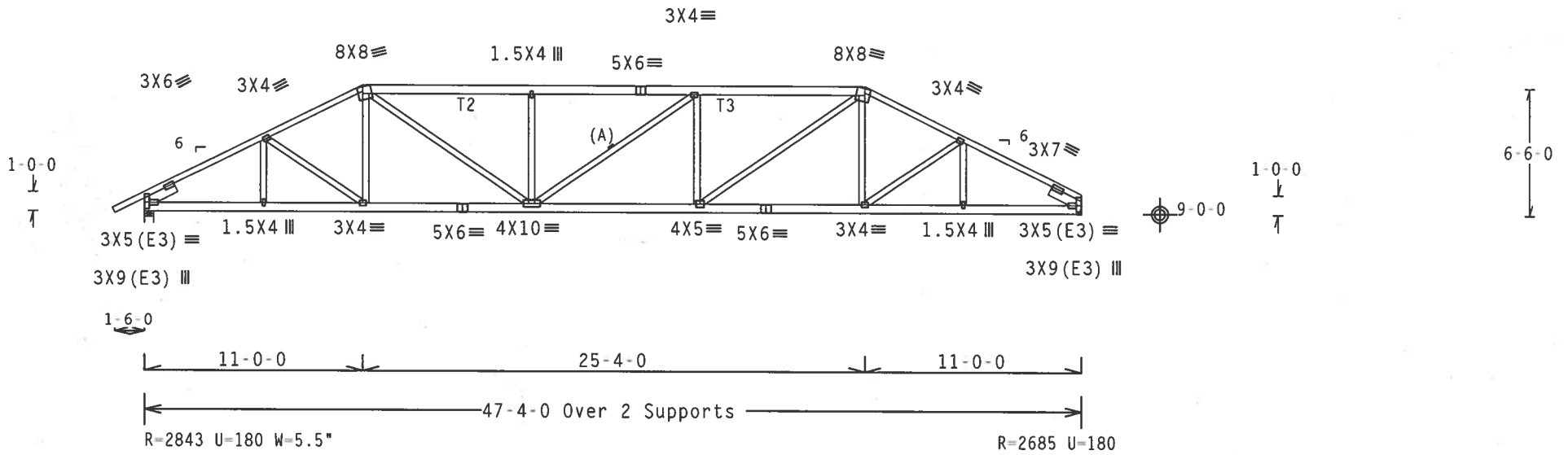
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	47.33
BC	120	-0.00	47.33

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE

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

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JAMES F. COLLINS JR. LICENSE No. 52282 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46515
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226037
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119788
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2, B3 2x6 SP #2:
Webs 2x4 SP #3 :W3 2x6 SP #2:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.947'

(A) Continuous lateral bracing equally spaced on member.

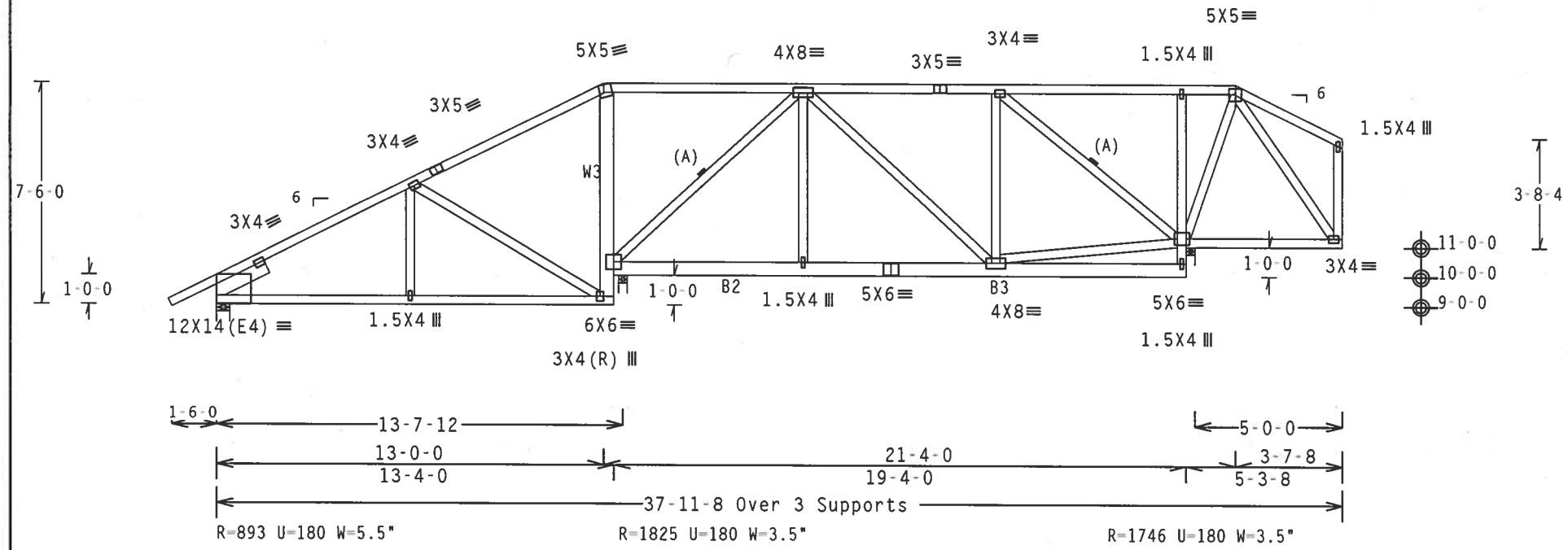
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	37.96
BC	120	0.00	13.33
BC	120	13.10	13.65
BC	85	13.65	32.67
BC	65	32.52	37.96



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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JAMES E. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46516
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226038
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119801
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B2 2x10 SP #1 Dense:
:B3 2x6 SP #2:
Webs 2x4 SP #3 :W3 2x8 SP SS:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.994'

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=7.5 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.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 13-4-0 to 29-9-8.

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

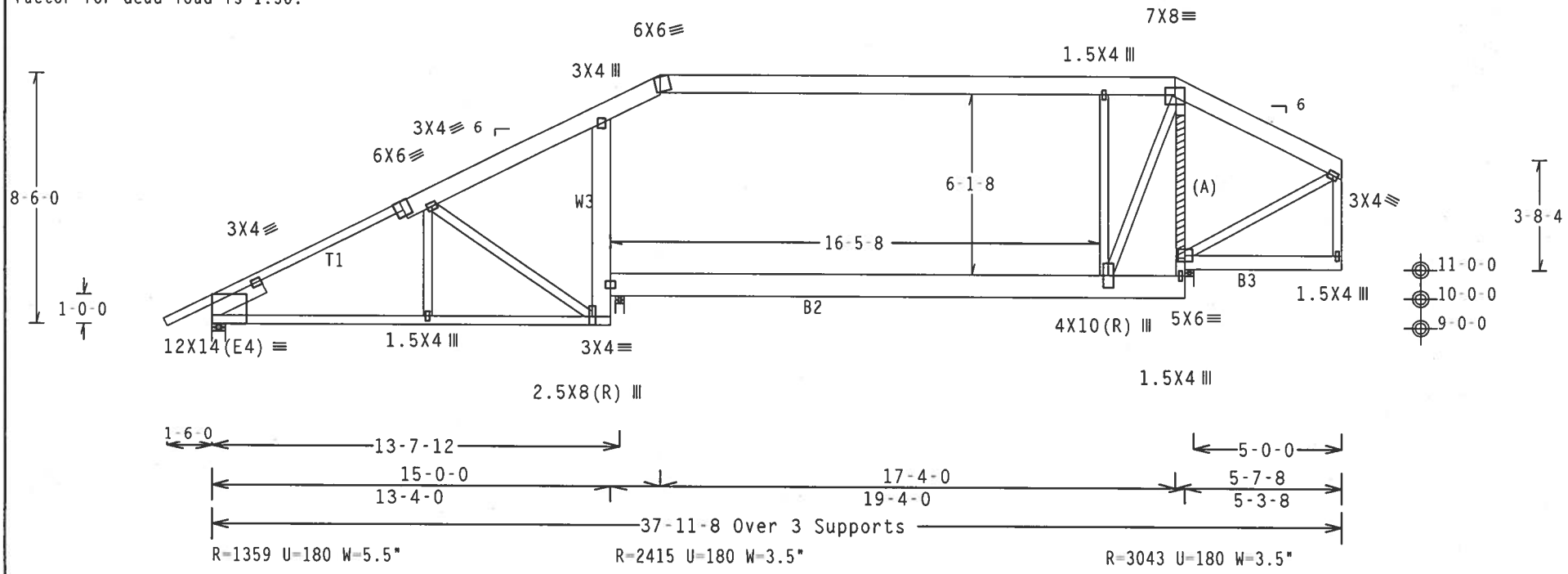
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Box_or_Gun_(0.128"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.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	37.96
BC	120	0.00	13.33
BC	120	13.03	13.65
BC	75	13.65	32.67
BC	65	32.52	37.96



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 1[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46517
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226079
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120226
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B2 2x10 SP #1 Dense:
:B3 2x6 SP #2:
Webs 2x4 SP #3 :W3 2x8 SP SS: :W4 2x6 SP #2:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.994'

(**) 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=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	37.96
BC	120	0.00	13.33
BC	120	13.03	13.65
BC	75	13.65	32.67
BC	65	32.52	37.96

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

2 COMPLETE TRUSSES REQUIRED

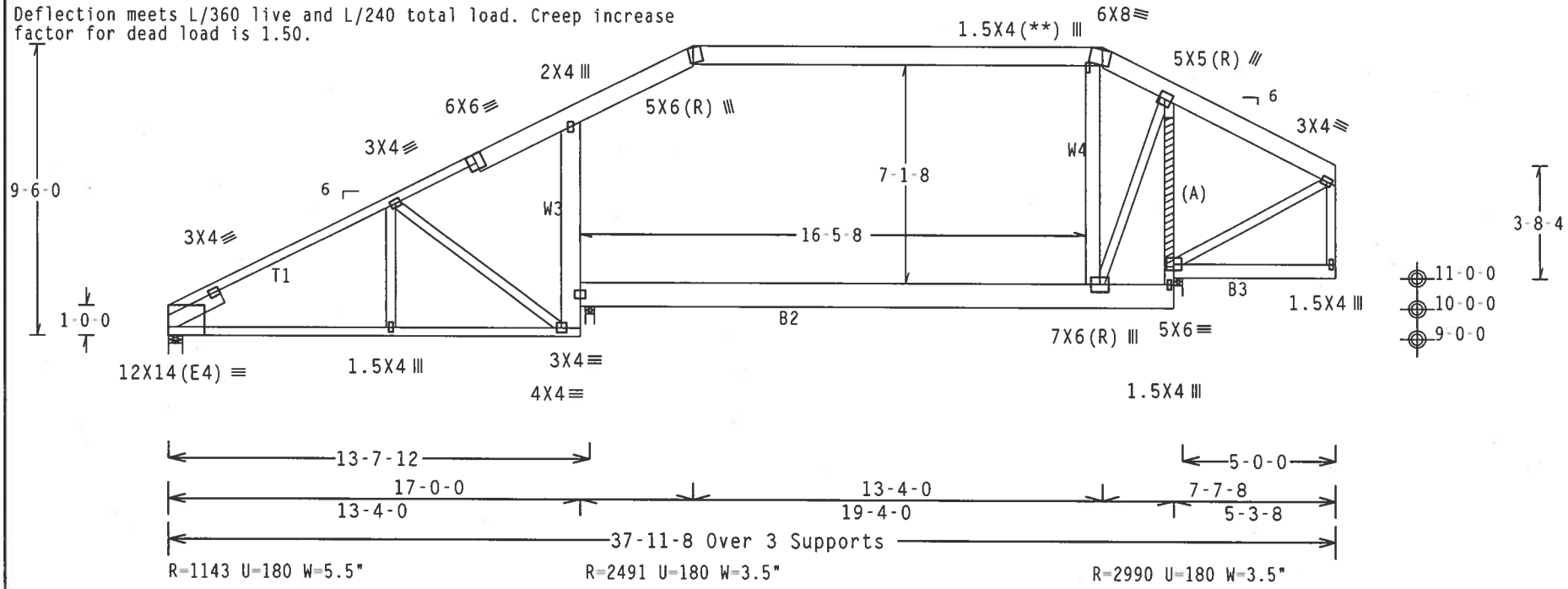
Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Right end vertical not exposed to wind pressure.

(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.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 13-4-0 to 29-9-8.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
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Certificate of Authorization # 567

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JAMES F. CULLANE, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46518
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226052
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119828
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x8 SP SS
Bot chord 2x10 SP #1 Dense :B3 2x6 SP #2:
Webs 2x4 SP #3 :W4 2x6 SP #2: :W6 2x8 SP SS:

End verticals not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 120" OC.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-3-8 to 22-3-8.

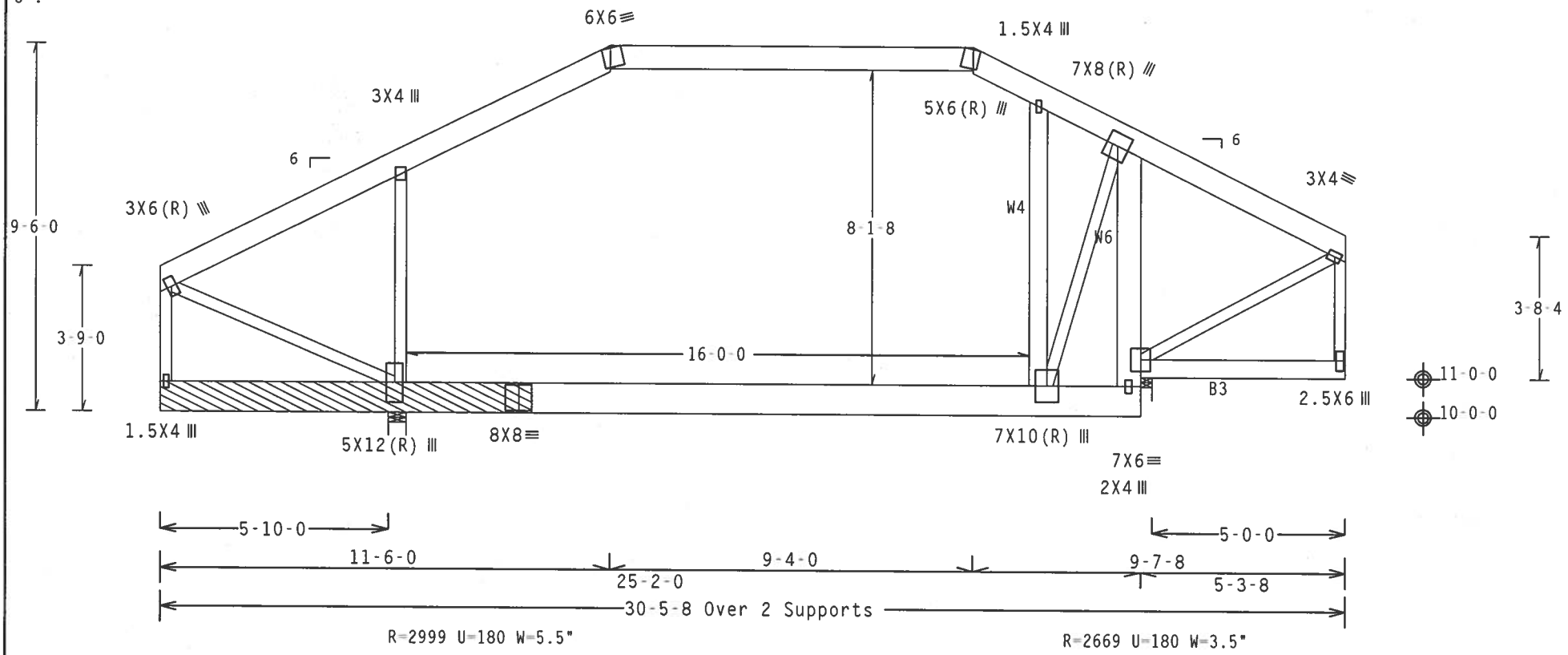
(1) 2x10X9-6-0 SP #1 Dense Bottom chord scab centered 4-9-0 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".

110 mph wind, 16.63 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.24" due to live load and 0.36" due to dead load.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 1
QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 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.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 567

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46519
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226039
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119845
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x8 SP SS
Bot chord 2x10 SP #1 Dense :B3 2x4 SP #2 Dense:
:B4 2x6 SP #2:
Webs 2x4 SP #3 :W7 2x6 SP #2: :W9 2x8 SP SS:

Calculated horizontal deflection is 0.18" due to live load and 0.28" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-3-8 to 22-3-8.

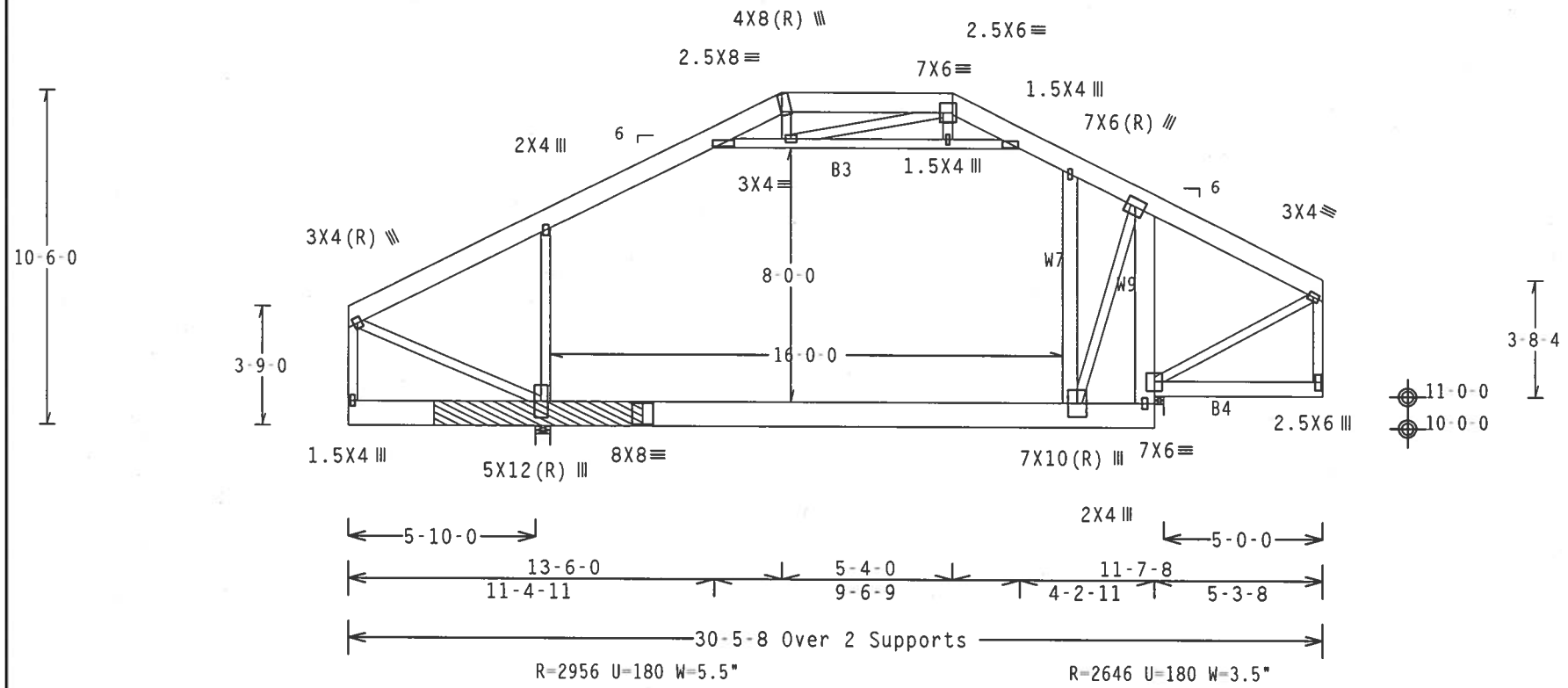
(1) 2x10X6-6-0 SP #1 Dense Bottom chord scab centered 5-11-0 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".

110 mph wind, 17.13 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

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

TC LL	30.0 PSF	REF	R487-- 46520
TC DL	15.0 PSF	DATE	08/14/06
BC DL	10.0 PSF	DRW	HCUSR487 06226040
BC LL	0.0 PSF	HC-ENG	TCE/ADR
TOT.LD.	55.0 PSF	SEQN-	119881
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZR487 Z03

ALPINE

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

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JAMES F. COLLINS JR. LICENSE No 62212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

Top chord 2x8 SP SS
Bot chord 2x10 SP #1 Dense :B3 2x4 SP #2 Dense:
:B4 2x6 SP #2:
Webs 2x4 SP #3 :W6 2x6 SP #2:
:W8 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.17" due to live load and 0.28" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-3-8 to 22-3-8.

(1) 2x10X9-6-0 SP #1 Dense Bottom chord scab centered 4-5-0 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".

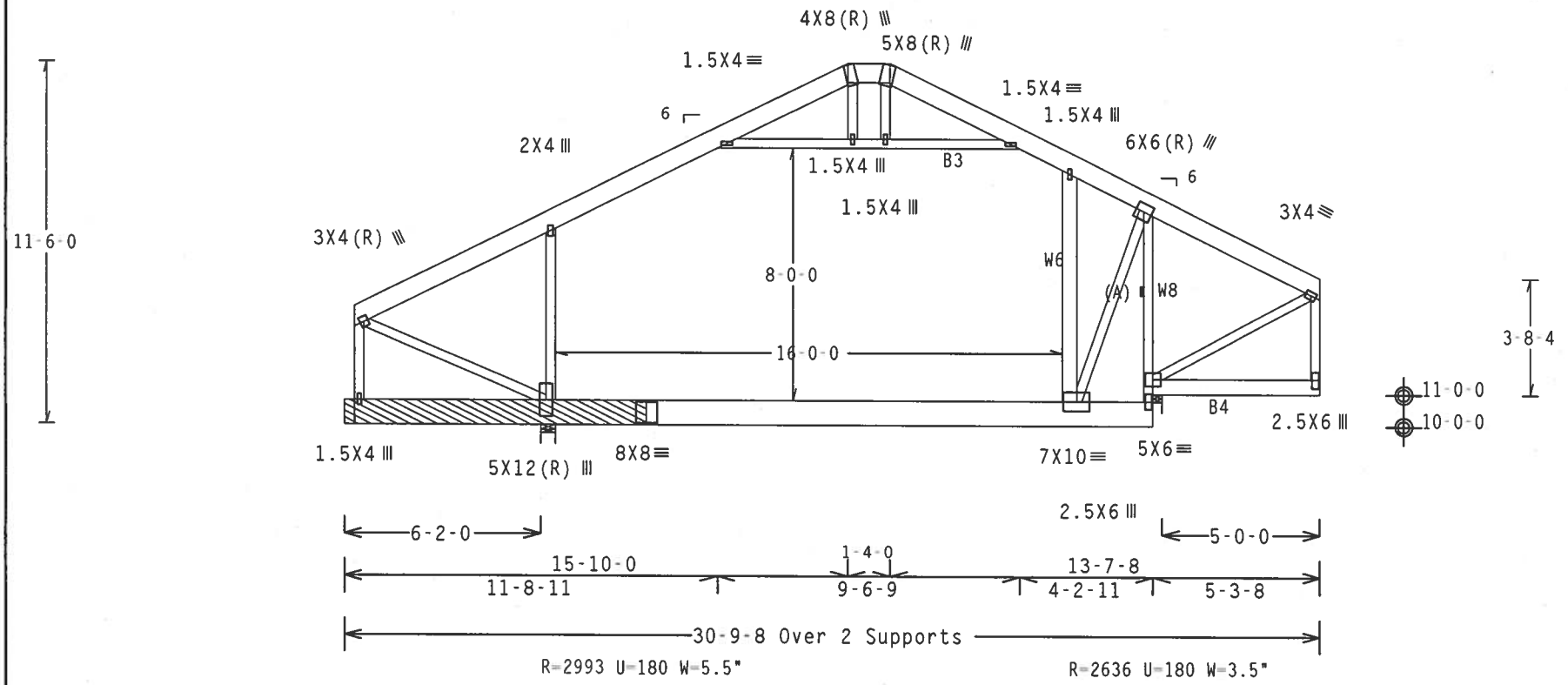
110 mph wind, 17.63 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

PLT TYP. Wave

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

TC LL	30.0 PSF
TC DL	15.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	55.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487-- 46521
DATE	08/14/06
DRW	HCUSR487 06226041
HC-ENG	TCE/ADR
SEQN-	119886
JREF-	1SZR487 Z03

ALPINE

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

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
Bot chord 2x10 SP #1 Dense :B3, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

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

TC	From	94 PLF	at -1.63	to	94 PLF	at 18.13
TC	From	116 PLF	at 18.13	to	116 PLF	at 23.23
TC	From	116 PLF	at 23.23	to	116 PLF	at 34.13
TC	From	94 PLF	at 34.13	to	94 PLF	at 42.29
BC	From	4 PLF	at -1.63	to	4 PLF	at 0.00
BC	From	20 PLF	at 0.00	to	20 PLF	at 18.13
BC	From	120 PLF	at 18.13	to	120 PLF	at 34.13
BC	From	40 PLF	at 34.13	to	20 PLF	at 42.29
BC		76 LB Conc. Load at 17.83				
BC		73 LB Conc. Load at 34.42				

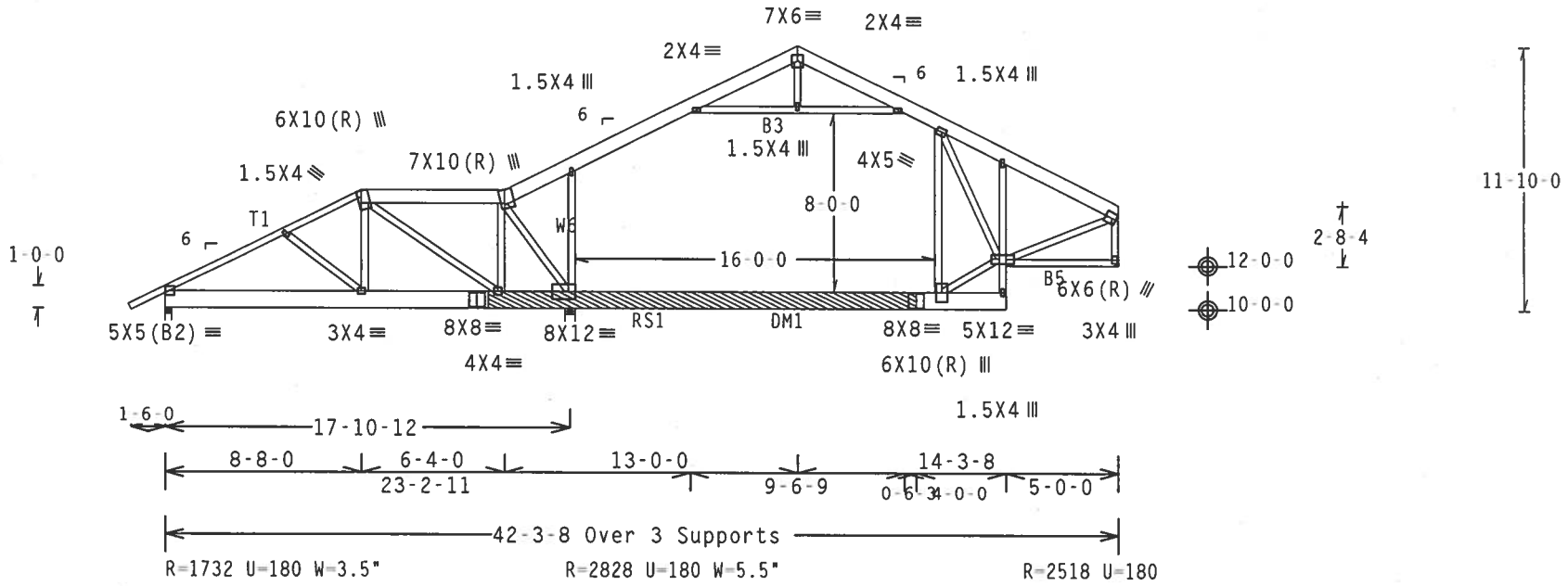
110 mph wind, 16.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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

(1) 2x10X19-0-0 SP #1 Dense Bottom chord scab centered 23-9-8 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE

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

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46522
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226060
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119908
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
Bot chord 2x10 SP #1 Dense :B3, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W5 2x4 SP #2 Dense:

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

TC	From	94 PLF	at -1.63	to	94 PLF	at 18.13
TC	From	116 PLF	at 18.13	to	116 PLF	at 23.23
TC	From	116 PLF	at 23.23	to	116 PLF	at 32.19
TC	From	138 PLF	at 32.19	to	138 PLF	at 32.77
TC	From	116 PLF	at 32.77	to	116 PLF	at 34.42
TC	From	94 PLF	at 34.42	to	94 PLF	at 42.29
BC	From	4 PLF	at -1.63	to	4 PLF	at 0.00
BC	From	20 PLF	at 0.00	to	20 PLF	at 17.83
BC	From	120 PLF	at 17.83	to	120 PLF	at 34.13
BC	From	40 PLF	at 34.13	to	20 PLF	at 42.29
BC	57 LB Conc. Load at 17.83					
BC	96 LB Conc. Load at 34.13					

110 mph wind, 16.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

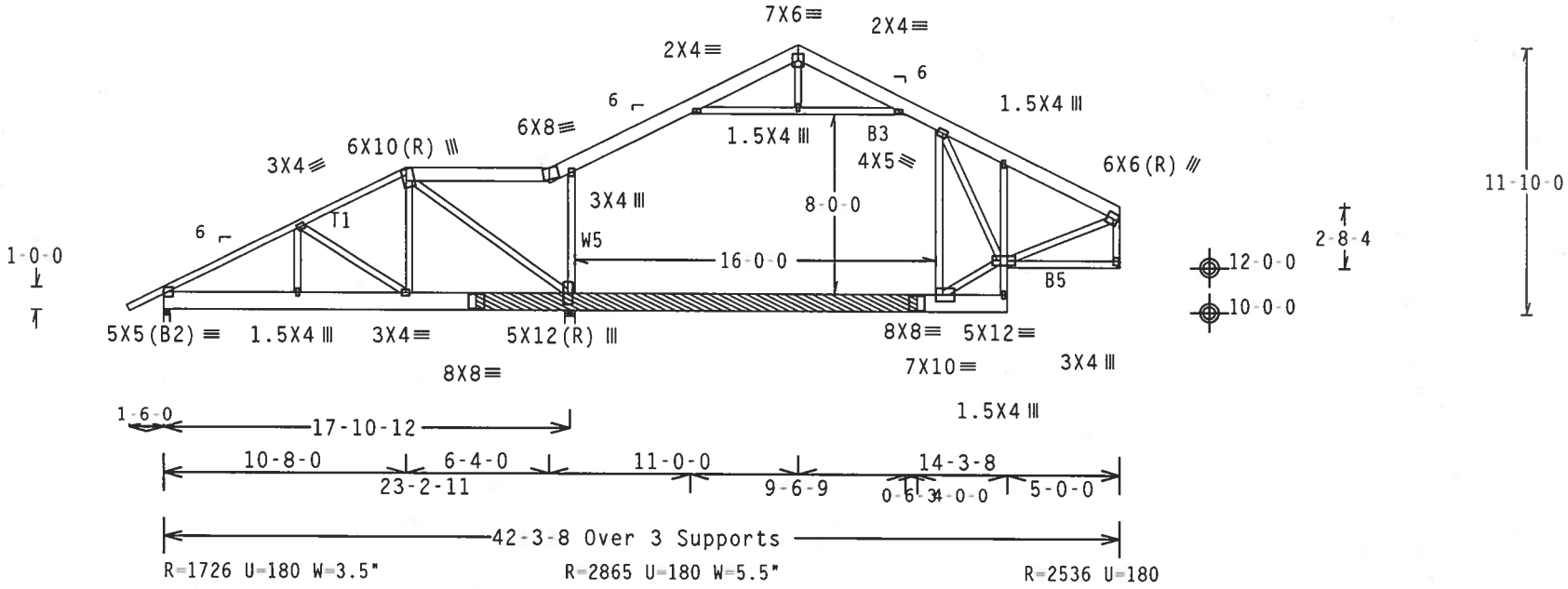
Right end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.09" due to live load and 0.17" due to dead load.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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

(1) 2x10X19-6-0 SP #1 Dense Bottom chord scab centered 23-6-8 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17
QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

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

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JAMES F. COLLINS JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF	R487-- 46523
TC DL	15.0 PSF	DATE	08/14/06
BC DL	10.0 PSF	DRW	HCUSR487 06226043
BC LL	0.0 PSF	HC-ENG	TCE/ADR
TOT.LD.	55.0 PSF	SEQN-	119924
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SZR487 Z03

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
:T2 2x6 SP #2: :T3 2x10 SP #1 Dense:
Bot chord 2x10 SP #1 Dense :B3, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

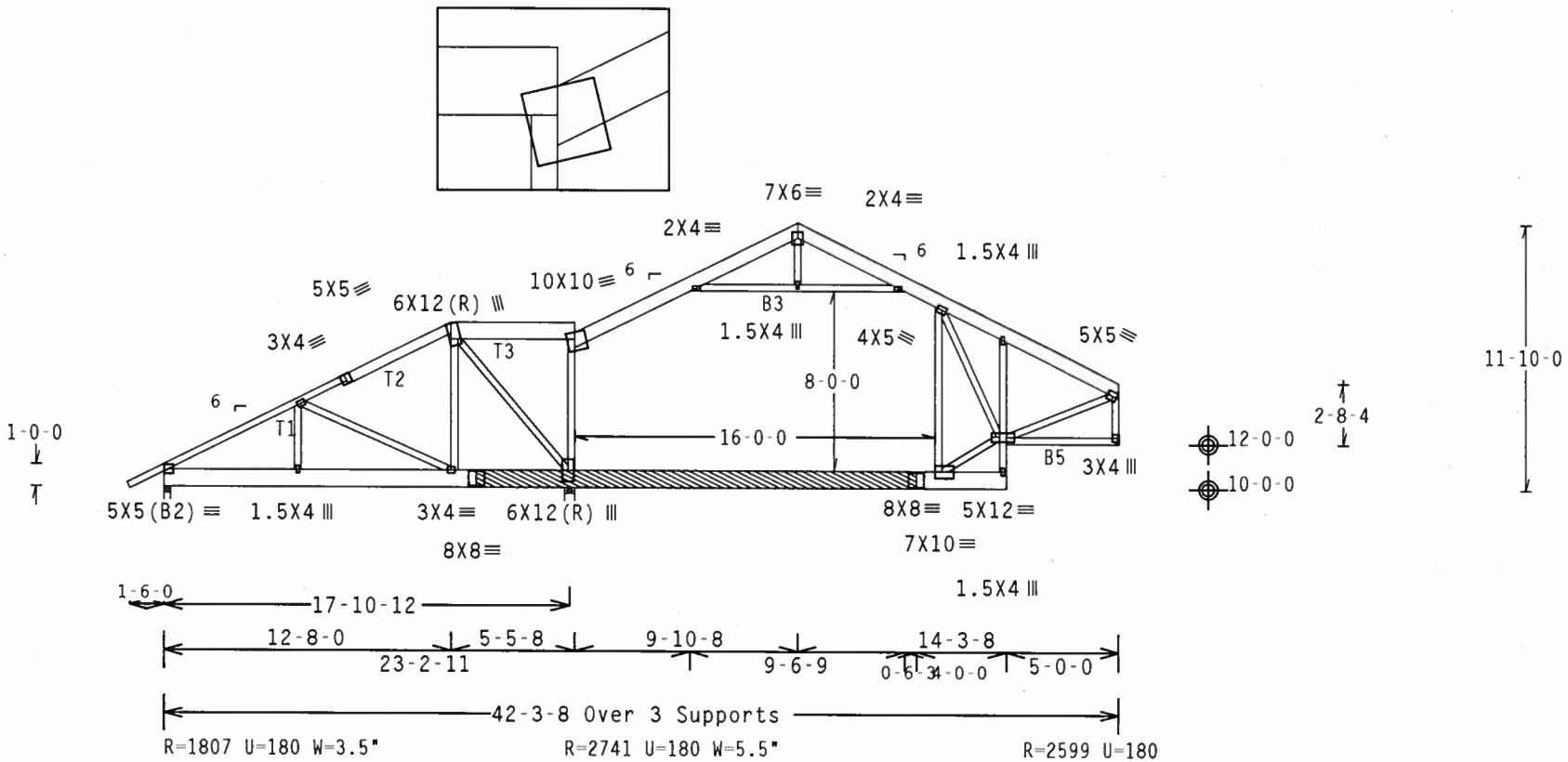
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 18-1-8 to 34-1-8.

(1) 2x10X19-6-0 SP #1 Dense Bottom chord scab centered 23-6-8 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.1

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15, 06

TC LL	30.0 PSF	REF R487-- 46524
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226044
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119945
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
:T2 2x6 SP #2:
Bot chord 2x10 SP #1 Dense :B3, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

(A) Continuous lateral bracing equally spaced on member.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 18-1-8 to 34-1-8.

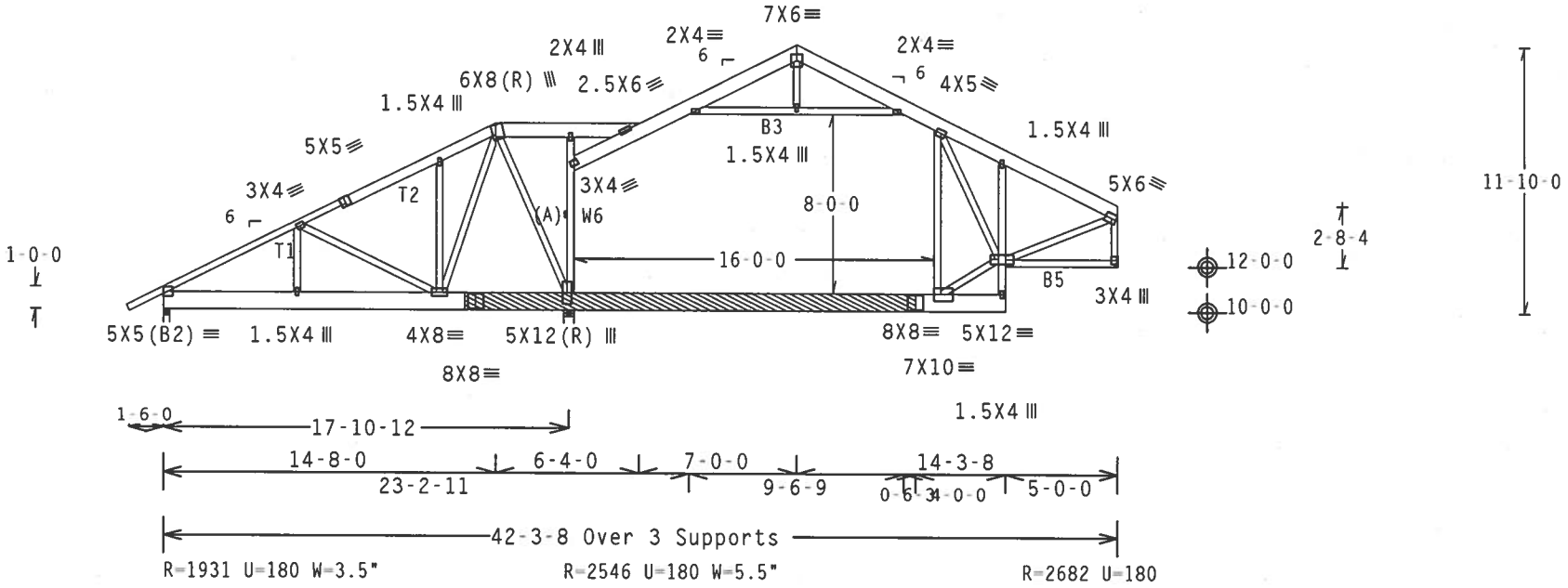
(1) 2x10X20-0-0 SP #1 Dense Bottom chord scab centered 23-3-8 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".

110 mph wind, 16.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 17

QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46525
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226046
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119965
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x8 SP SS :T1 2x4 SP #2 Dense:
:T2 2x6 SP #2:
Bot chord 2x10 SP #1 Dense :B3, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.17" due to live load and 0.22" due to dead load.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

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

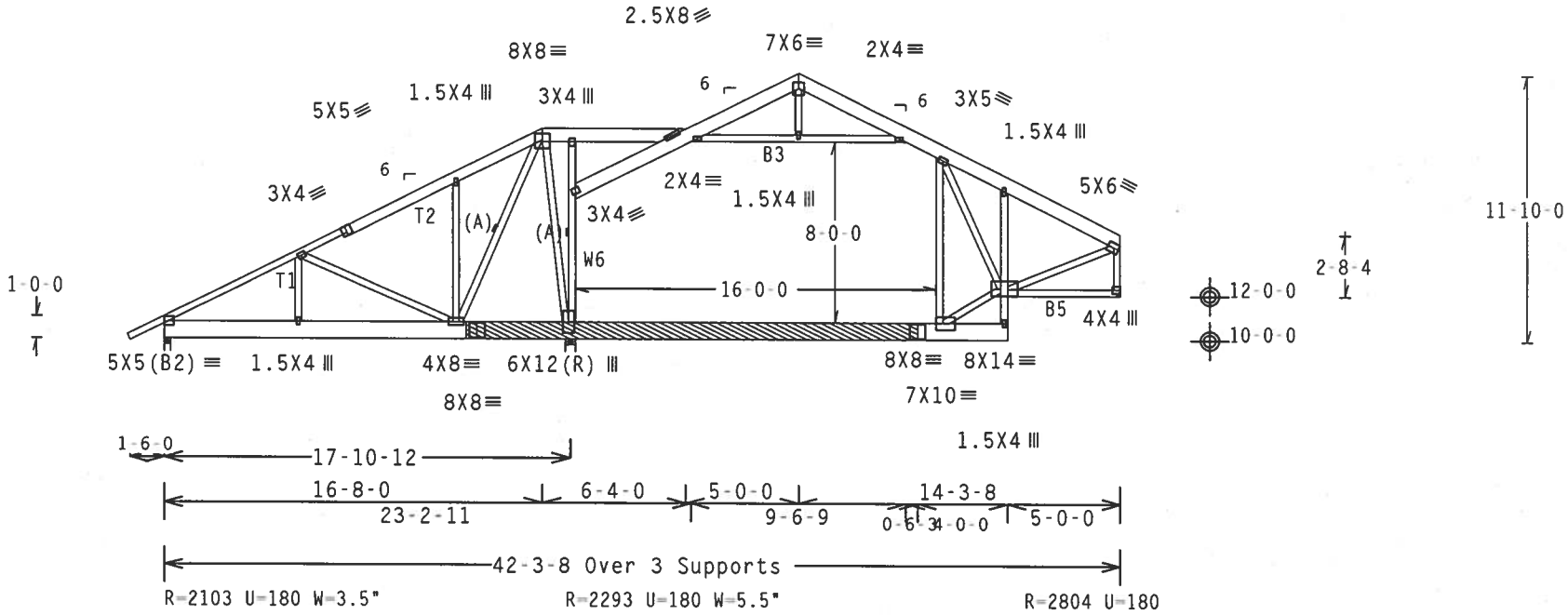
110 mph wind, 16.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 18-1-8 to 34-1-8.

(1) 2x10X20-0-0 SP #1 Dense Bottom chord scab centered 23-3-8 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails @ 6" O.C., staggered 3".



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

TC LL	30.0 PSF	REF R487-- 46526
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226047
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119982
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

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

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 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.

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2: :T5 2x8 SP SS:
Bot chord 2x10 SP #1 Dense :B3, B5 2x4 SP #2 Dense:
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	0.00
TC	24	0.10	0.13
TC	24	0.00	42.29
BC	58	0.10	17.83
BC	58	17.98	24.71
BC	58	17.83	33.29
BC	58	24.71	32.62
BC	58	33.29	33.29
BC	58	32.62	32.62
BC	58	33.29	37.29
BC	62	37.15	42.29

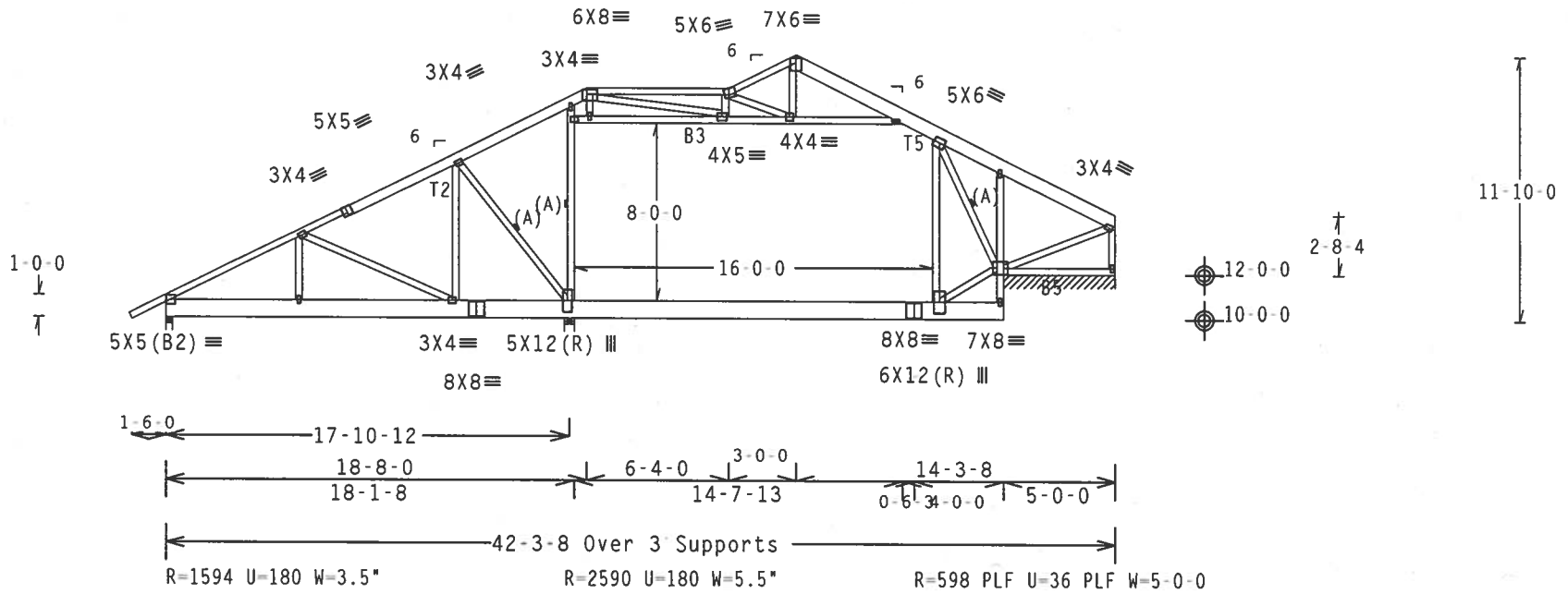
110 mph wind, 16.01 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 18-1-8 to 34-1-8.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46527
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226048
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119998
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

Top chord 2x6 SP #1 Dense :T1 2x4 SP #2 Dense:
:T4, T5 2x8 SP SS:
Bot chord 2x10 SP SS :B1 2x8 SP SS:
:B3 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W5, W15, W16 2x4 SP #2 Dense:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.916'
:Rt Bearing Leg 2x8 SP #1 Dense:

110 mph wind, 15.76 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 18-1-8 to 34-1-8.

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

Calculated vertical deflection is 0.51" due to live load and 0.83" due to dead load at X = 17-10-0.

Bearing blocks: Nail type: 12d_Box_or_Gun_(0.128"x3.25"._min.)_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
1	0.000'	1	12"	6	Match Truss

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

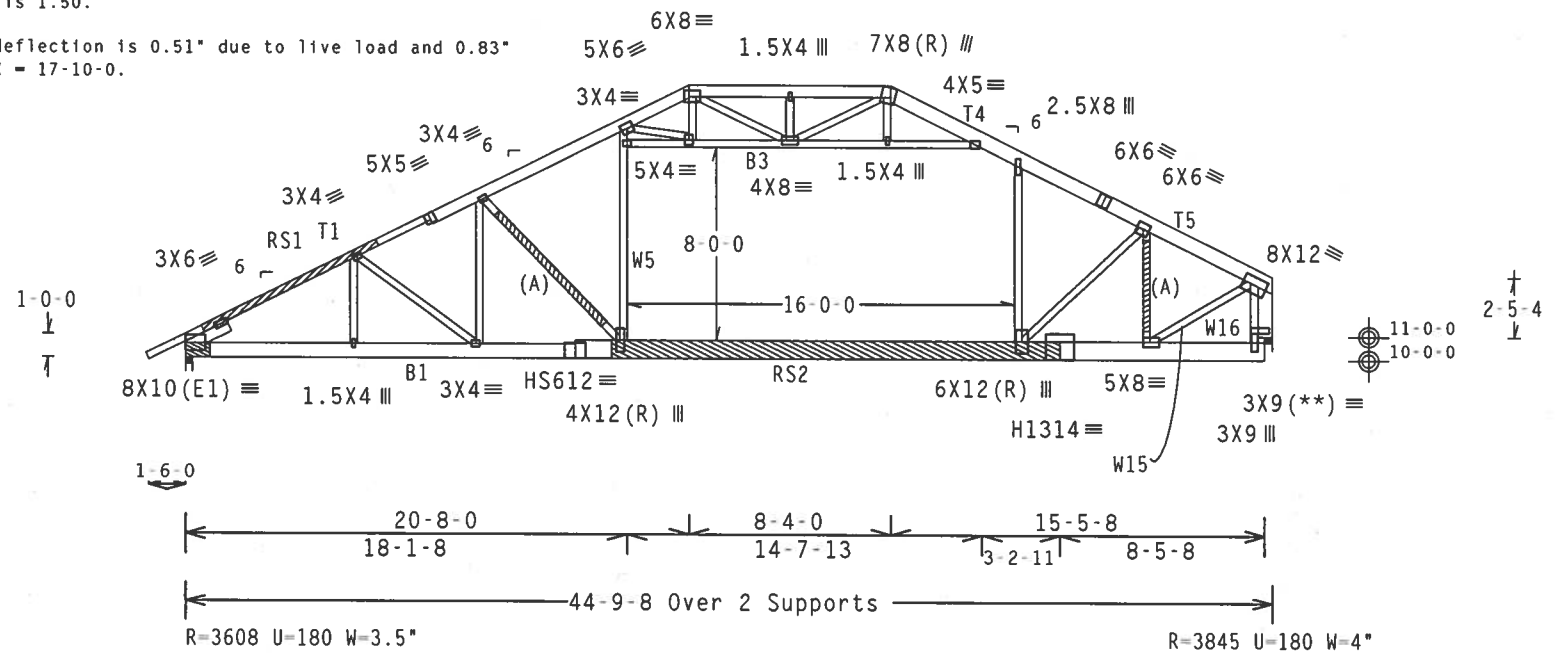
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Calculated horizontal deflection is 0.23" due to live load and 0.37" due to dead load.

RS1 (1) 2x4X8-0-0 SP #2 Dense Top chord scab centered 4-4-5 from left end. Attach to one face of chord with (2) rows of 12d_Box_or_Gun_(0.128"x3.25"._min.)_nails @ 6" O.C., staggered 3".

RS2 (1) 2x10X18-6-0 SP SS Bottom chord scab centered 26-9-0 from left end. Attach to one face of chord with (5) rows of 12d_Box_or_Gun_(0.128"x3.25"._min.)_nails @ 6" O.C., staggered 3".

THIS TRUSS HAS BEEN DESIGNED TO BE SUPPORTED AT LOCATIONS SHOWN.
THIS TRUSS HAS NOT BEEN DESIGNED FOR ANY INTERIOR BEARING(S).



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

QTY:5 FL/-/4/-/-/R/-

Scale =.125"/Ft.

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

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46528
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226049
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	55.0 PSF	SEQN- 122842
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

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

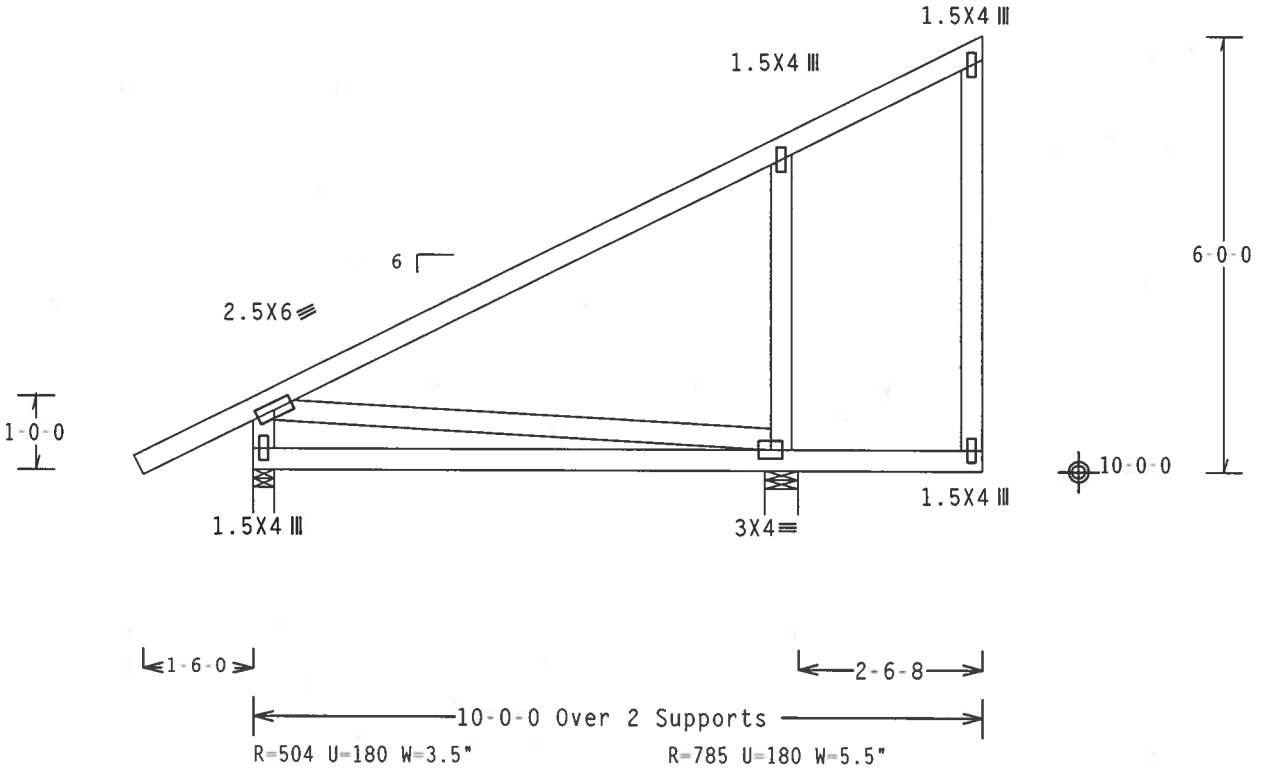
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	10.00
BC	120	0.00	10.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:3 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
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JAMES F. COLLINS JR
LICENSE
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46529
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226080
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119355
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

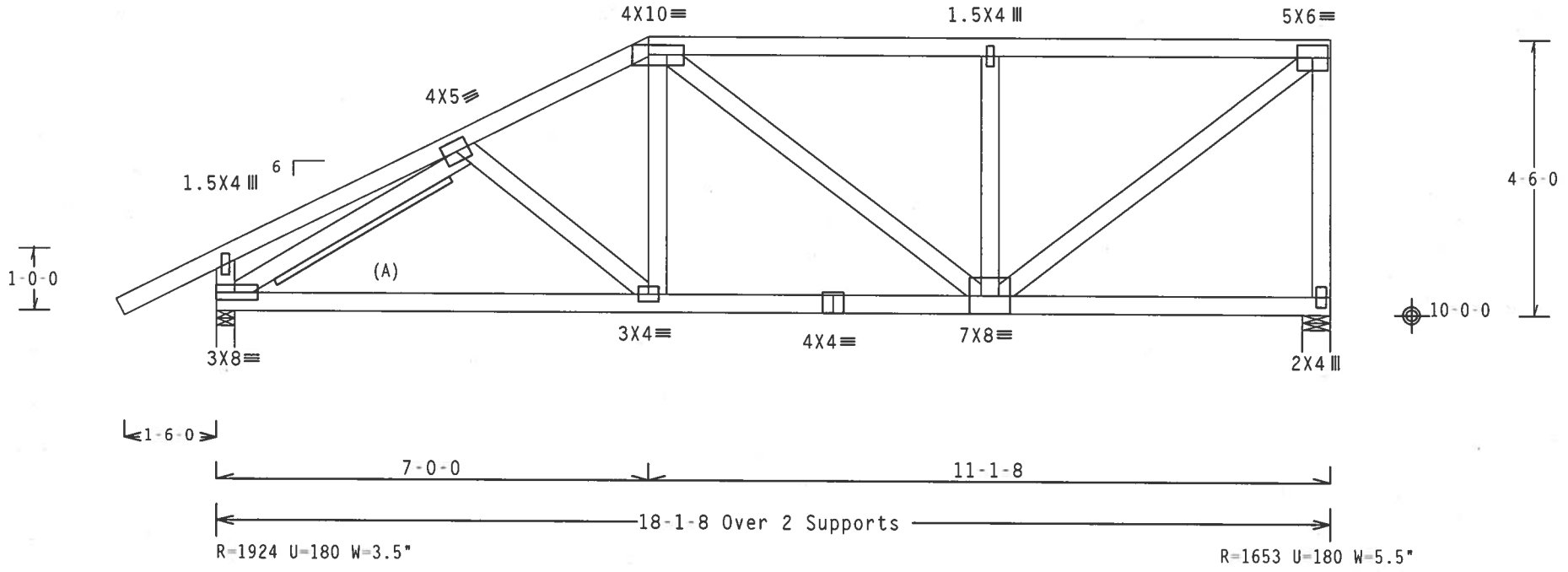
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	18.13
BC	120	0.00	18.13

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 94 PLF at -1.63 to 94 PLF at 18.13
BC - From 4 PLF at -1.63 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 18.13
TC - 247 LB Conc. Load at 7.06, 9.06, 11.06
BC - 517 LB Conc. Load at 7.00
BC - 54 LB Conc. Load at 9.06, 11.06

Right end vertical not exposed to wind pressure.

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

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 1
QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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JAMES E. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46530
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226081
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119350
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense :T4, T5 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W14 2x4 SP #2 Dense:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.593'
:Rt Splice Block 2x4 SP #3:

SPECIAL LOADS
-------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF	at 0.00	to	94 PLF	at 25.51
TC - From	34 PLF	at 25.51	to	34 PLF	at 25.56
TC - From	126 PLF	at 25.56	to	126 PLF	at 25.65
TC - From	196 PLF	at 25.65	to	196 PLF	at 47.33
BC - From	20 PLF	at 0.00	to	20 PLF	at 25.56
BC - From	44 PLF	at 25.56	to	44 PLF	at 47.33

BC - 2753 LB Conc. Load at 25.56

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

Calculated vertical deflection is 0.42" due to live load and 0.59" due to dead load at X = 25-11-2.

3 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @ 6" o.c.
Bot Chord: 1 Row @ 3" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

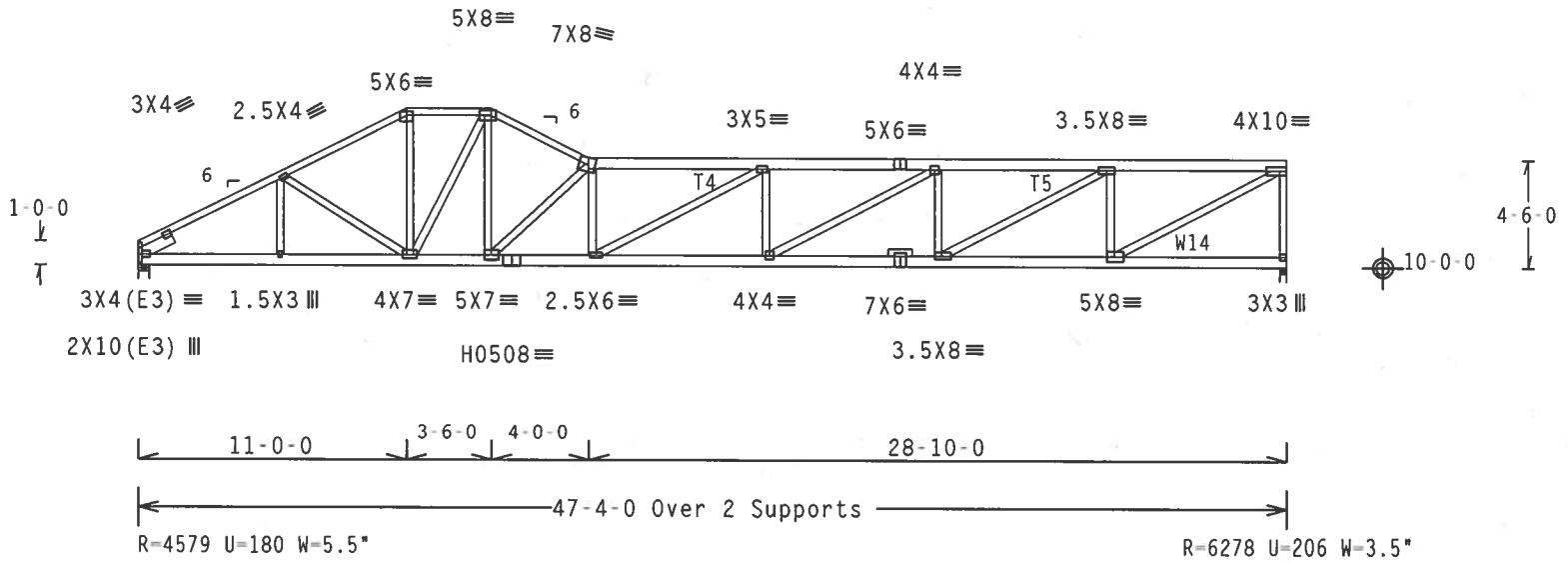
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	47.33
BC	120	0.00	47.33

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.25.0411 1 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46531
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226057
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	55.0 PSF	SEQN- 55500 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - B2)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense :T3, T4 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W3, W12 2x4 SP #2 Dense:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.838'
:Lt Splice Block 2x4 SP #3::Rt Splice Block 2x4 SP #3:

(A) Continuous lateral bracing equally spaced on member.

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

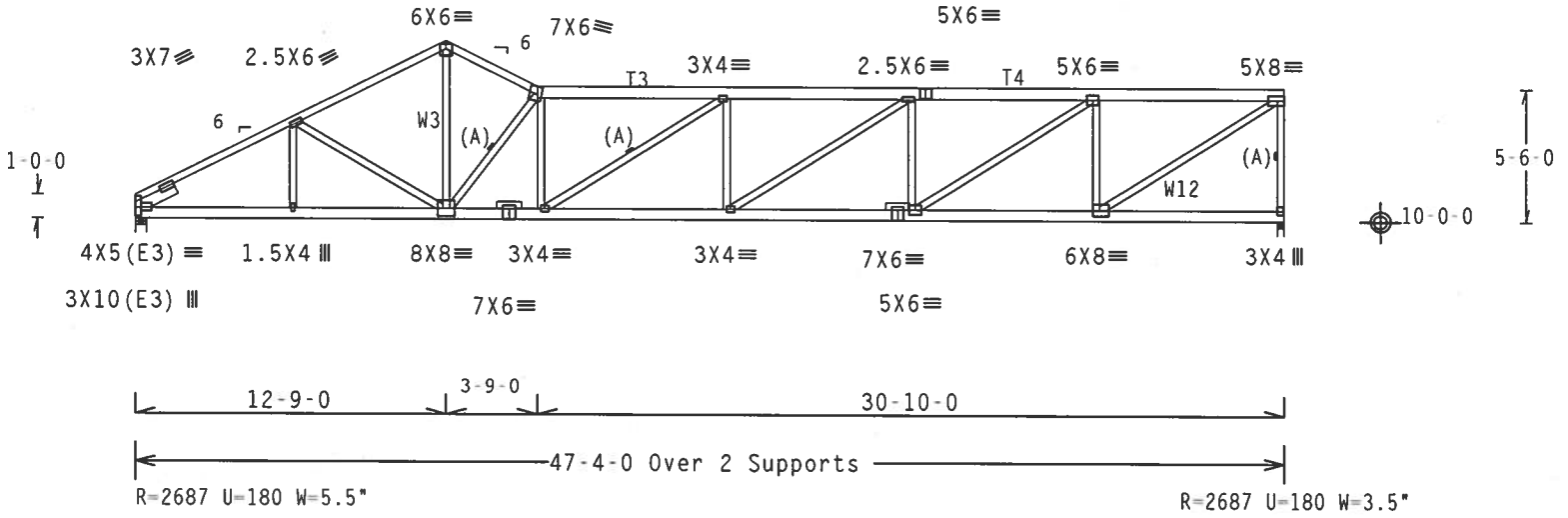
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.25	46.09
BC	120	-1.25	46.09



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE

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

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

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

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46532
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226007
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	55.0 PSF	SEQN- 120692
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

Top chord 2x6 SP #1 Dense :T1, T2 2x4 SP #2 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W3, W13 2x4 SP #2 Dense:
:W12, W14 2x6 SP #2:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.861'

(A) Continuous lateral bracing equally spaced on member.

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

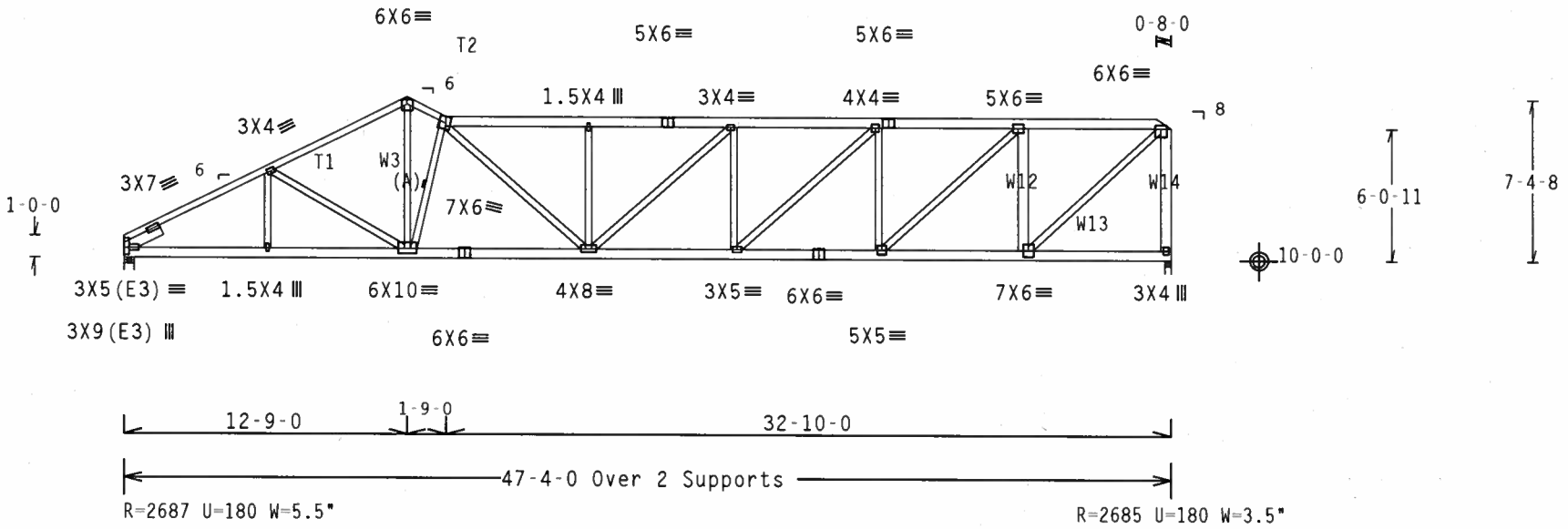
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	47.01
BC	120	0.00	47.33



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 13 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
AUG 14 06

TC LL	30.0 PSF	REF R487-- 46533
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226008
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120078
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.872'

(A) Continuous lateral bracing equally spaced on member.

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

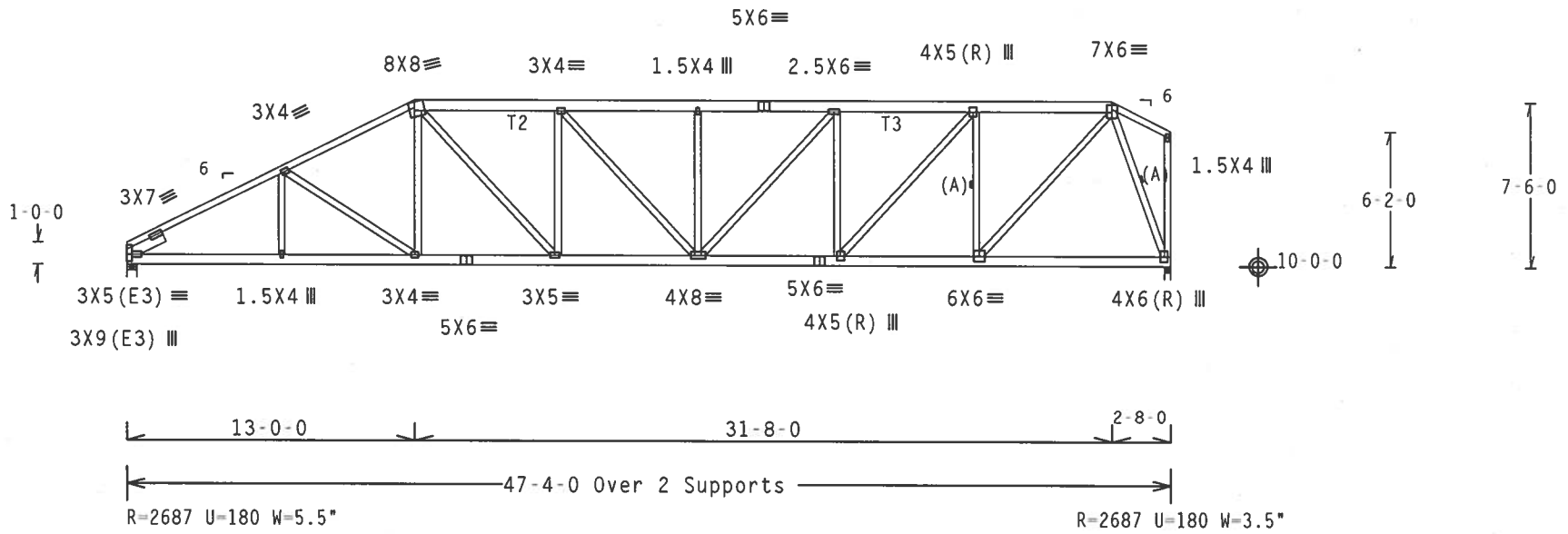
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	47.33
BC	120	0.00	47.33



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230

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

Scale =.125"/Ft.

ALPINE

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46534
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226014
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120087
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense :T3, T4 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 2.152'

(A) Continuous lateral bracing equally spaced on member.

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

(B) (1) 2X4X 8-0-0 SP#2 DENSE SCAB; ATTACH TO ONE FACE OF TRUSS WITH 10d COMMON(0.148"X3.0") NAILS @ 3"OC WITHOUT SPLITTING LUMBER.

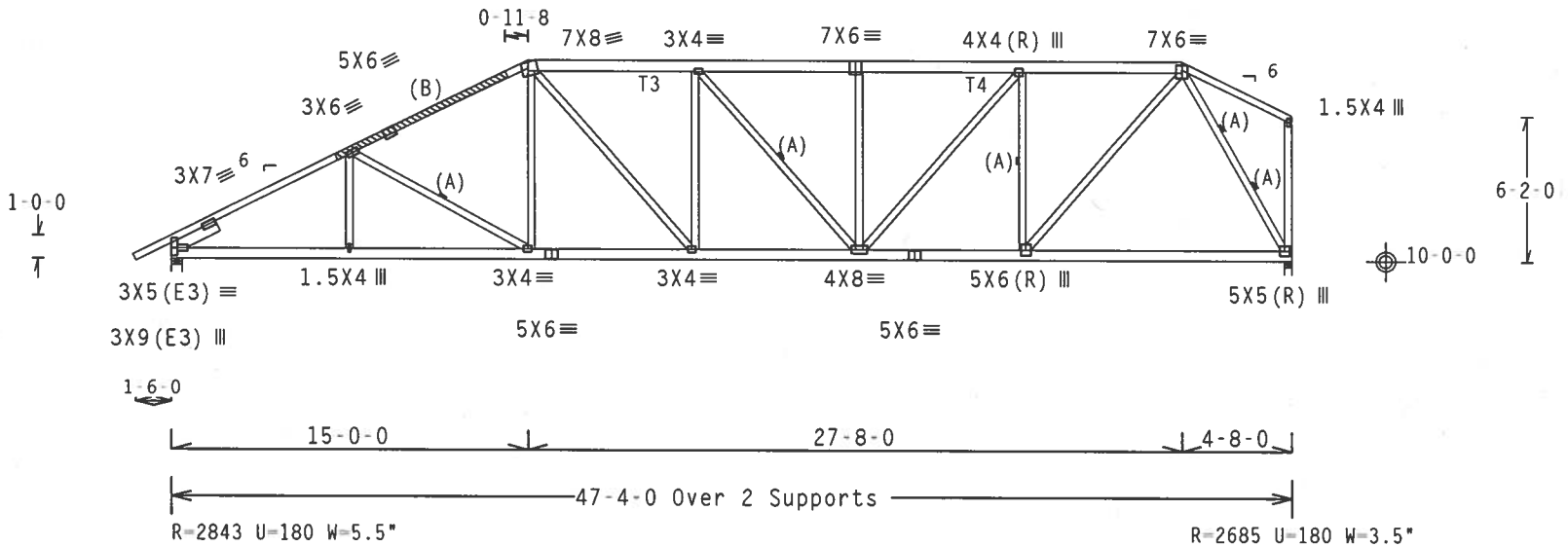
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-2.81	46.09
BC	120	-1.25	46.09

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230

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

Scale =.125"/Ft.

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

JAMES F. COLLINS JR. LICENSE NO. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46535
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226009
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	55.0 PSF	SEQN- 120694
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - B6)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:
:T3, T4 2x6 SP #1 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.642'

(A) Continuous lateral bracing equally spaced on member.

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

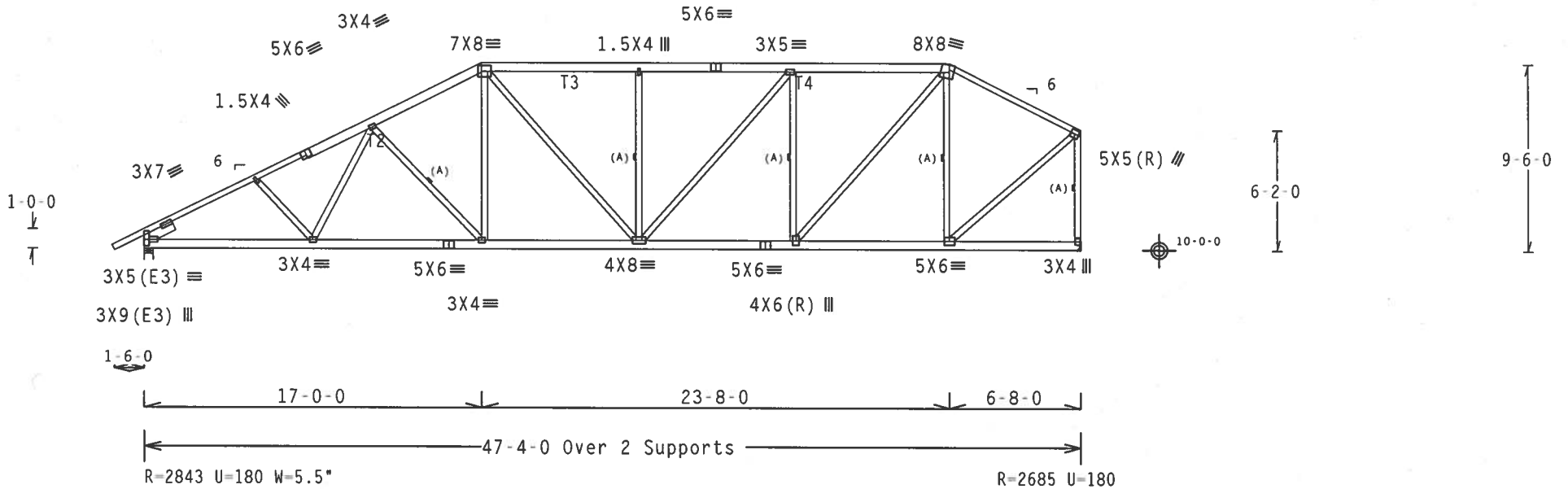
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	47.33
BC	120	0.00	47.33



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cg/RT=1.00(1.25)/10(0) 7.24.1230

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

Scale -.125"/Ft.

ALPINE

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

TC LL	30.0 PSF	REF R487-- 46536
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226010
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120108
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x6 SP #1 Dense :T1, T4 2x4 SP #2 Dense:
Bot chord 2x6 SP #2
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.693'

(A) Continuous lateral bracing equally spaced on member.

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

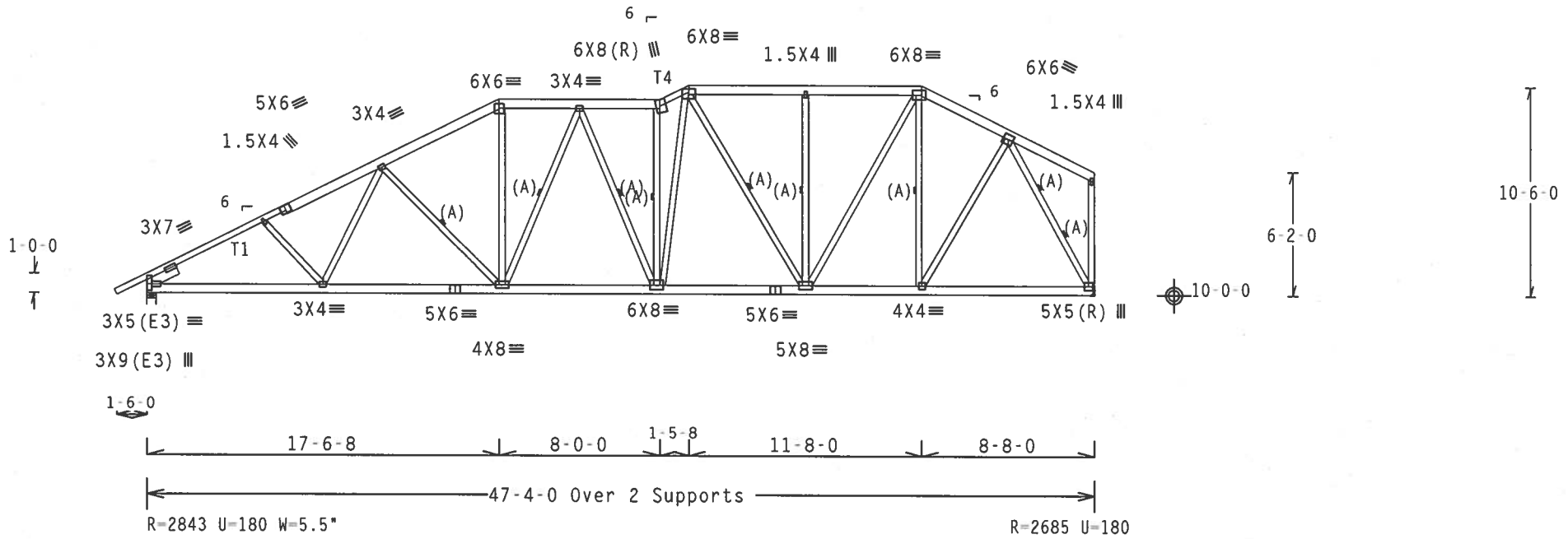
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.34 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	47.33
BC	120	0.00	47.33



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.13 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

ALPINE

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

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JAMES F. COLLINS JR. LICENSE No.52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

TC LL	30.0 PSF	REF R487-- 46537
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226011
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120119
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x6 SP #1 Dense :T1 2x4 SP #2 Dense:
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.506'

(A) Continuous lateral bracing equally spaced on member.

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

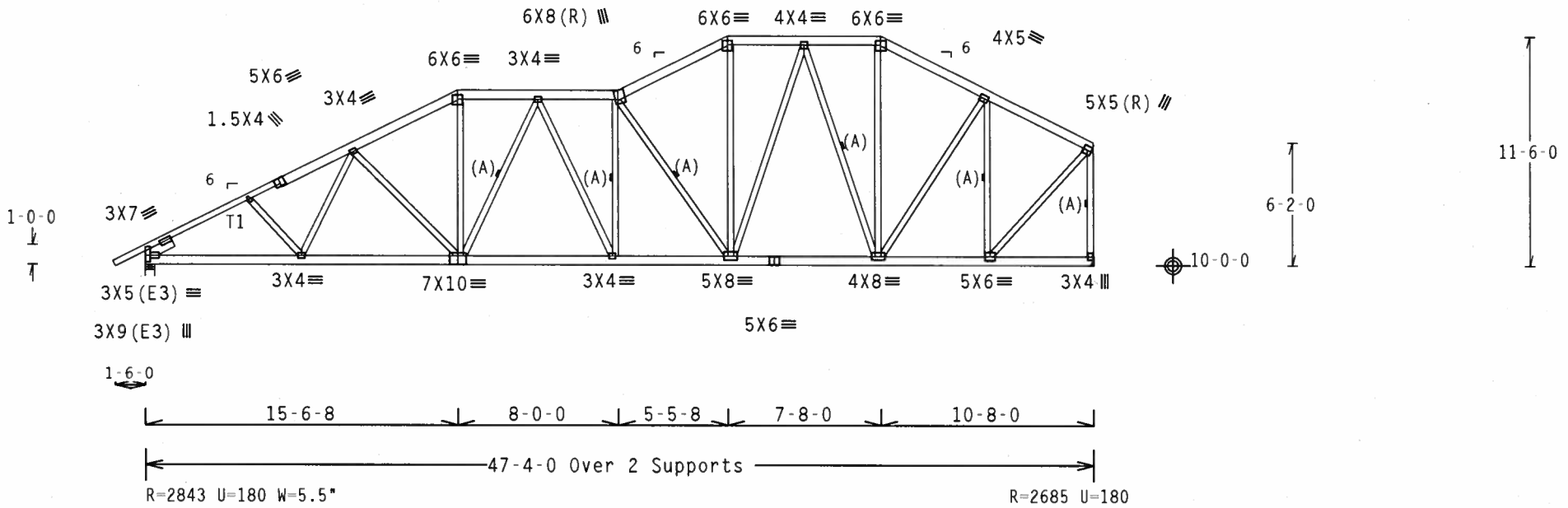
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.84 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 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:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	47.33
BC	120	0.00	47.33



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46538
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226012
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120130
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x6 SP #1 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Stubbed Wedge 2x8 SP #1 Dense:
:Rt Stubbed Wedge 2x8 SP #1 Dense:

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

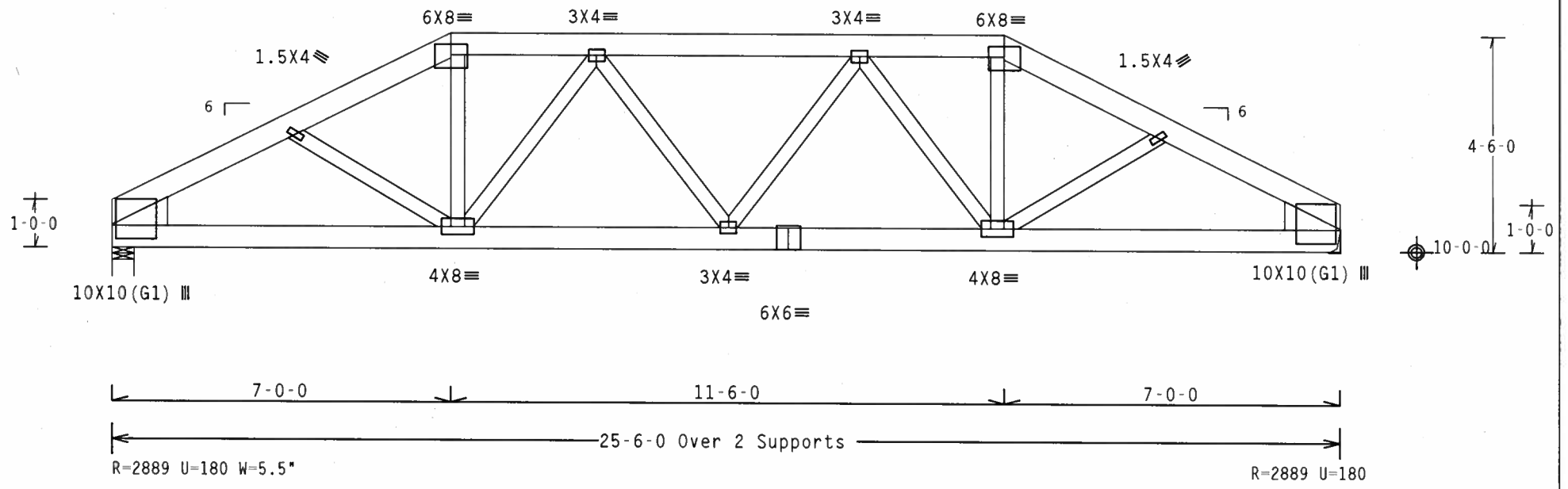
Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-0-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 1-0-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 1-0-0 overhang.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	25.50
BC	120	0.00	25.50

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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JAMES F. COLLINS, JR. LICENSED No. 52211 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46539
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226016
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119556
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

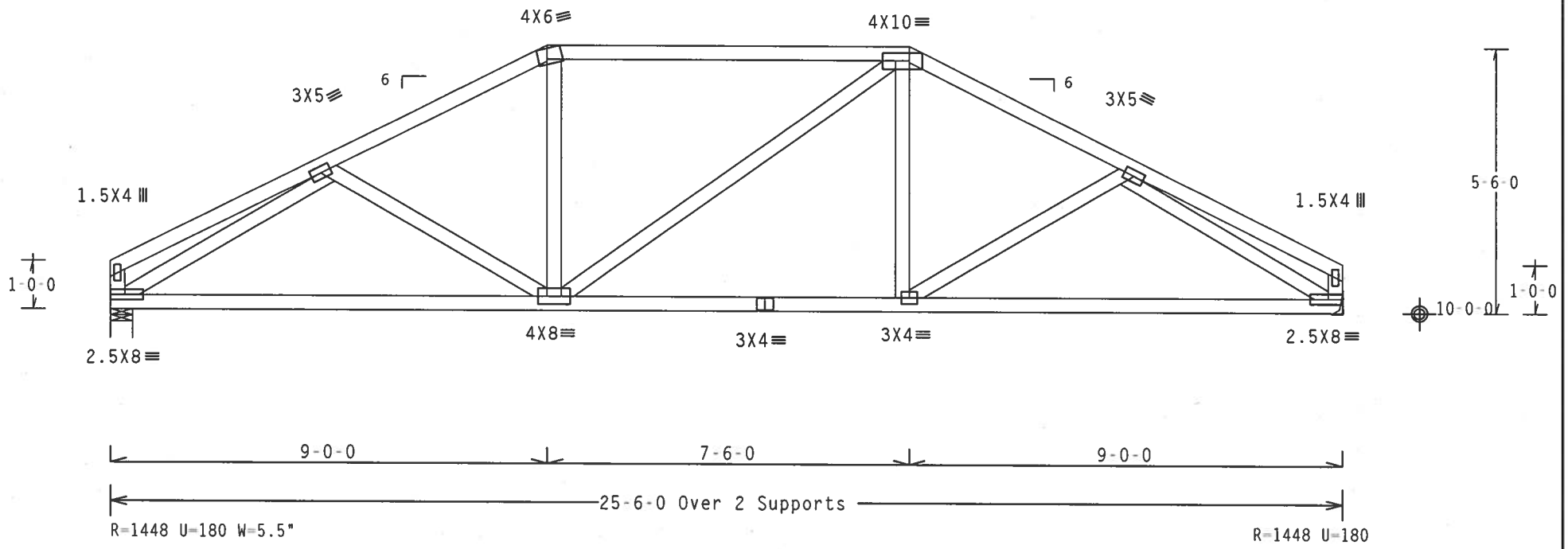
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	25.50
BC	120	0.00	25.50

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

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

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JAMES F. COLLINS JR. LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46540
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226017
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119568
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

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

TC	From	94 PLF	at	-1.63	to	94 PLF	at 7.00
TC	From	194 PLF	at	7.00	to	194 PLF	at 11.33
TC	From	60 PLF	at	11.33	to	60 PLF	at 22.58
BC	From	4 PLF	at	-1.63	to	4 PLF	at 0.00
BC	From	20 PLF	at	0.00	to	20 PLF	at 7.00
BC	From	44 PLF	at	7.00	to	44 PLF	at 11.33
BC	From	54 PLF	at	11.33	to	54 PLF	at 22.58
BC	676 LB Conc. Load at 7.00						

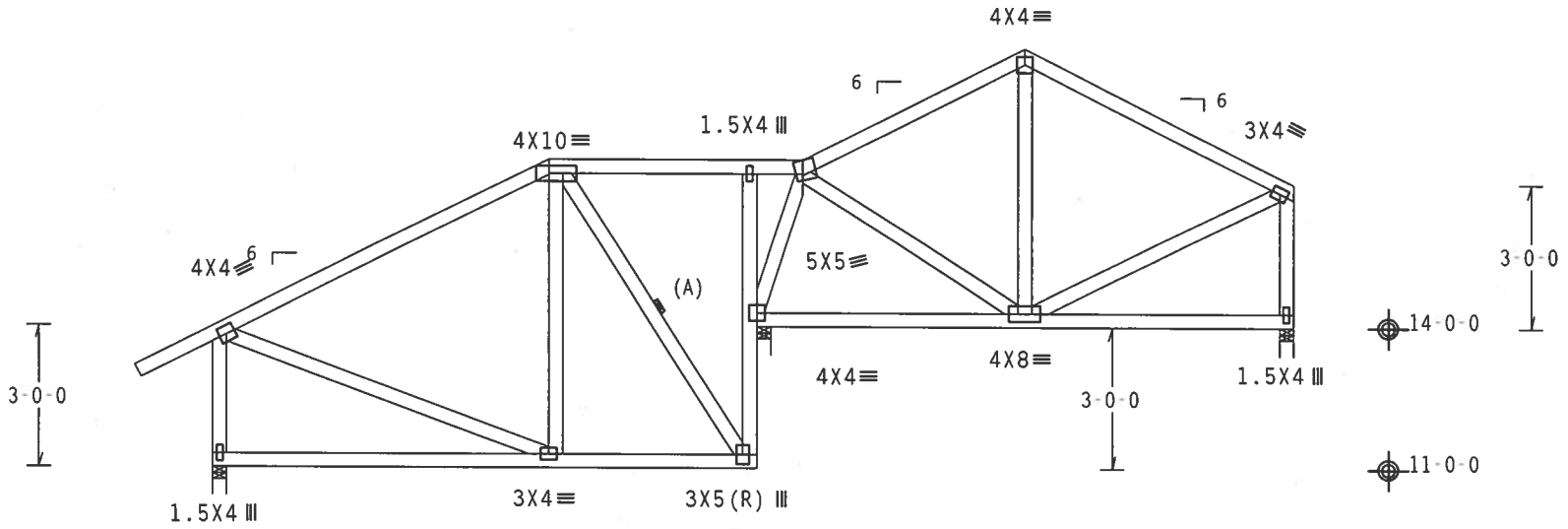
110 mph wind, 16.50 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

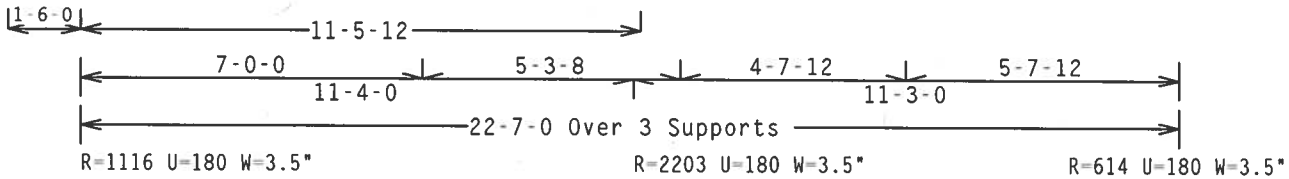
(A) Continuous lateral bracing equally spaced on member.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	22.58
BC	120	0.00	11.33
BC	120	11.19	22.58

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY-1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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

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JAMES F. COLLINS LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46541
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226057
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	55.0 PSF	SEQN- 120696
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

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

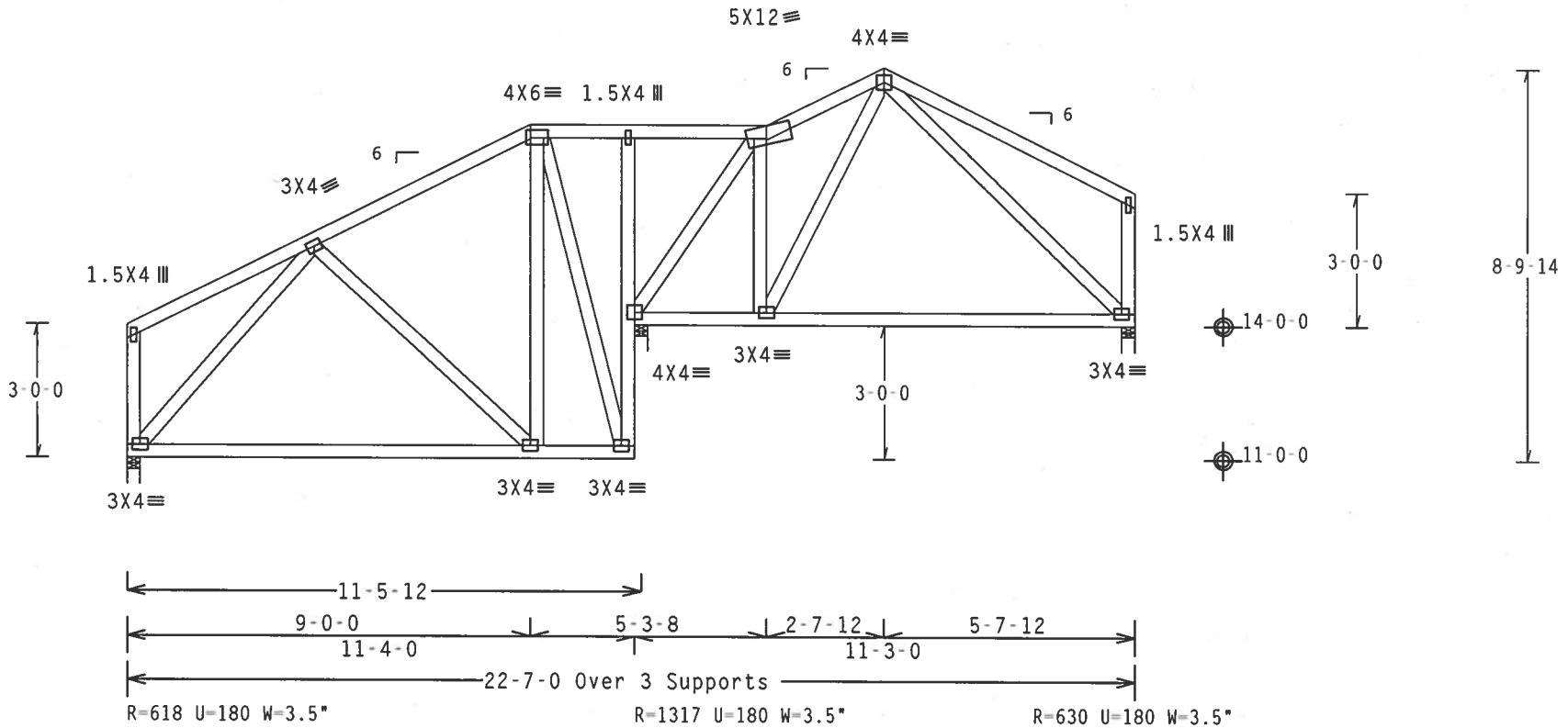
End verticals not exposed to wind pressure.

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

110 mph wind, 16.91 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	22.58
BC	120	0.00	11.33
BC	120	11.19	22.58



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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

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JAMES F. COLLINS, JR. LICENSE No. 52218 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46542
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226059
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120147
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x10 SP #1 Dense
Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 94 PLF at 0.00 to 94 PLF at 11.25
BC - From 20 PLF at 0.00 to 20 PLF at 11.25
BC - 2518 LB Conc. Load at 1.19
BC - 2536 LB Conc. Load at 3.19
BC - 2599 LB Conc. Load at 5.19
BC - 2682 LB Conc. Load at 7.19
BC - 2804 LB Conc. Load at 9.19
BC - 2992 LB Conc. Load at 11.19

110 mph wind, 18.41 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 3 Rows @ 3.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 12d_Box_or_Gun_(0.128"x3.25",_min.)_nails

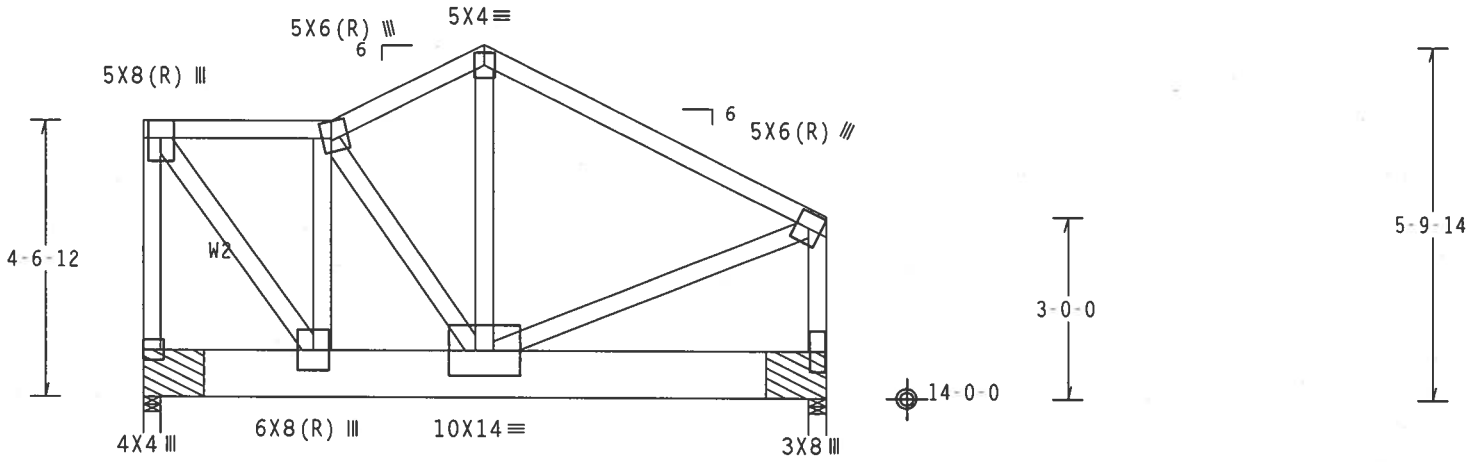
BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
1	0.000'	1	12"	6	Match Truss
2	10.958'	1	12"	24	Match Truss

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

End verticals not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	11.25
BC	120	0.00	11.25



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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Certificate of Authorization # 567

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46543
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226058
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120169
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x6 SP #1 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 90 PLF at 0.00 to 90 PLF at 7.17
BC - From 20 PLF at 0.00 to 20 PLF at 7.17
TC - 794 LB Conc. Load at 2.10, 4.10, 6.10
BC - 705 LB Conc. Load at 1.77
BC - 711 LB Conc. Load at 3.77, 5.77

End verticals not exposed to wind pressure.

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

Truss must be installed as shown with top chord up.

Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

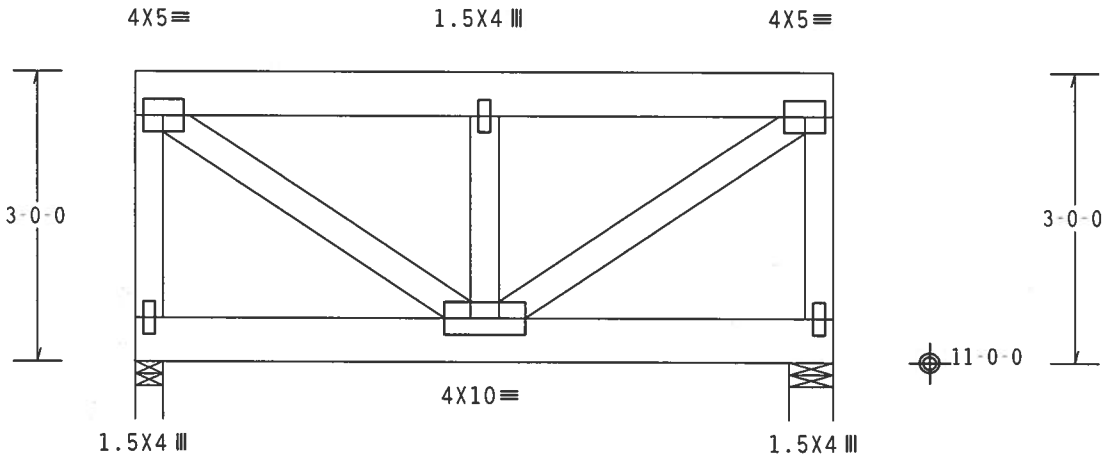
Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @ 4.00" o.c.
Bot Chord: 1 Row @ 5.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

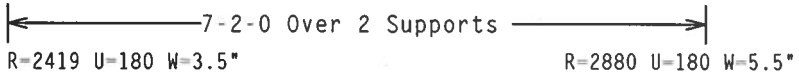
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	7.17
BC	86	0.00	7.17

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cg/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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

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JAMES F. COLLINS JR. LICENSE No. 52012 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46544
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226061
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11258
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 90 PLF at 0.00 to 90 PLF at 6.79
BC - From 20 PLF at 0.00 to 20 PLF at 6.79
BC - 2685 LB Conc. Load at 1.85, 3.85, 5.85

End verticals not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	6.79
BC	81	0.00	6.79

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

Provide connection for concentrated load(s) shown.

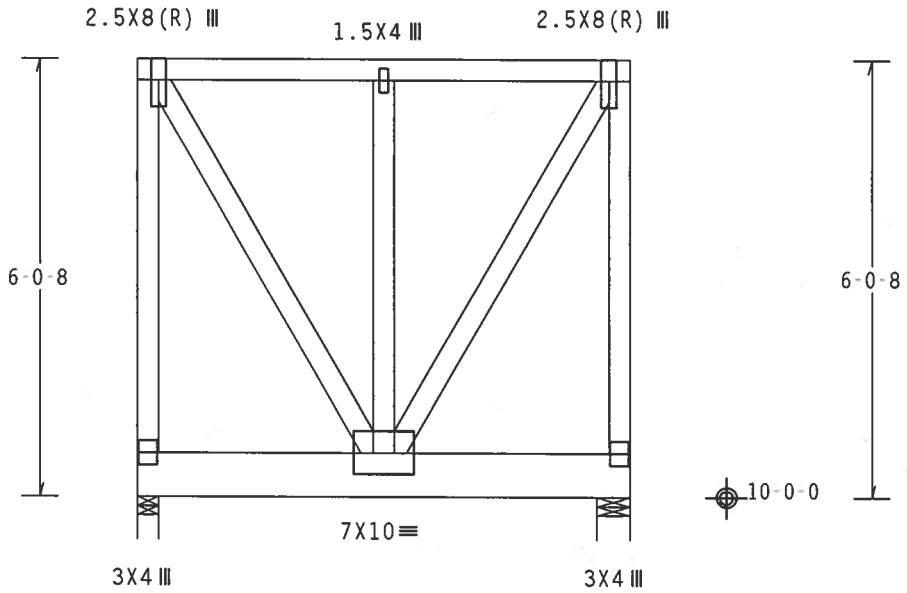
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 3 Rows @ 3.75" 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, 16.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

Truss must be installed as shown with top chord up.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46545
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226015
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120176
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W2, W8 2x4 SP #2 Dense:

SPECIAL LOADS
-------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 90 PLF at 0.00 to 90 PLF at 13.17
BC - From 20 PLF at 0.00 to 20 PLF at 13.17
BC - 737 LB Conc. Load at 1.40, 3.40, 5.40
BC - 711 LB Conc. Load at 7.40, 9.40
BC - 705 LB Conc. Load at 11.40

Max JT VERT DEFL: LL: 0.24" DL: 0.29" recommended camber 1/2"

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

Truss must be installed as shown with top chord up.

Provide connection for concentrated load(s) shown.

3 COMPLETE TRUSSES REQUIRED

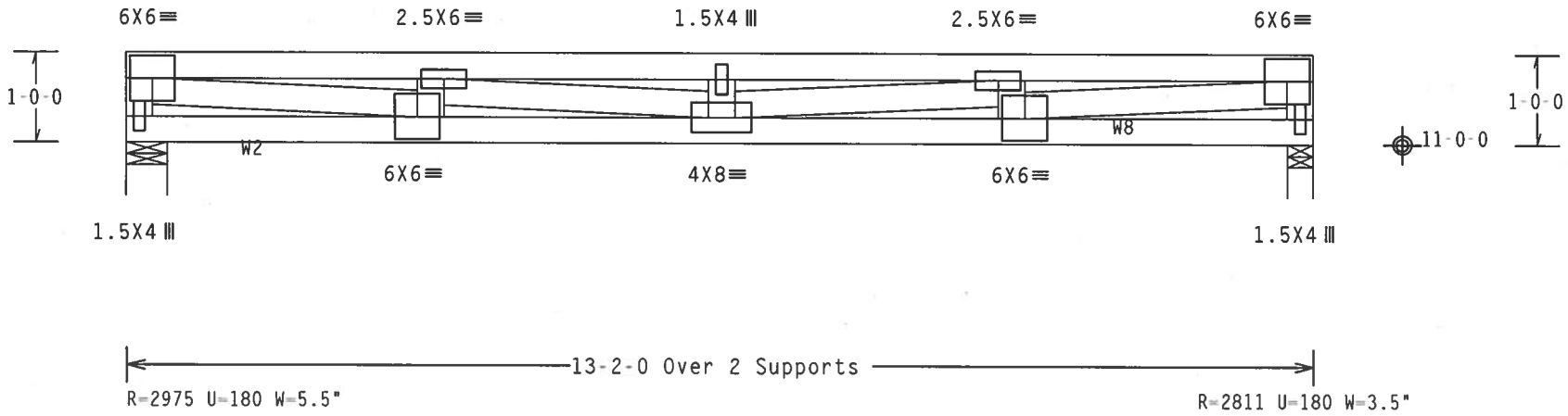
Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	13.17
BC	120	0.00	13.17

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	30.0 PSF	REF R487-- 46546
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226026
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120217
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 90 PLF at 0.00 to 90 PLF at 10.67
BC - From 20 PLF at 0.00 to 20 PLF at 10.67
TC - 170 LB Conc. Load at 0.53, 10.02
TC - 281 LB Conc. Load at 2.53, 8.04
TC - 397 LB Conc. Load at 4.50, 6.04

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

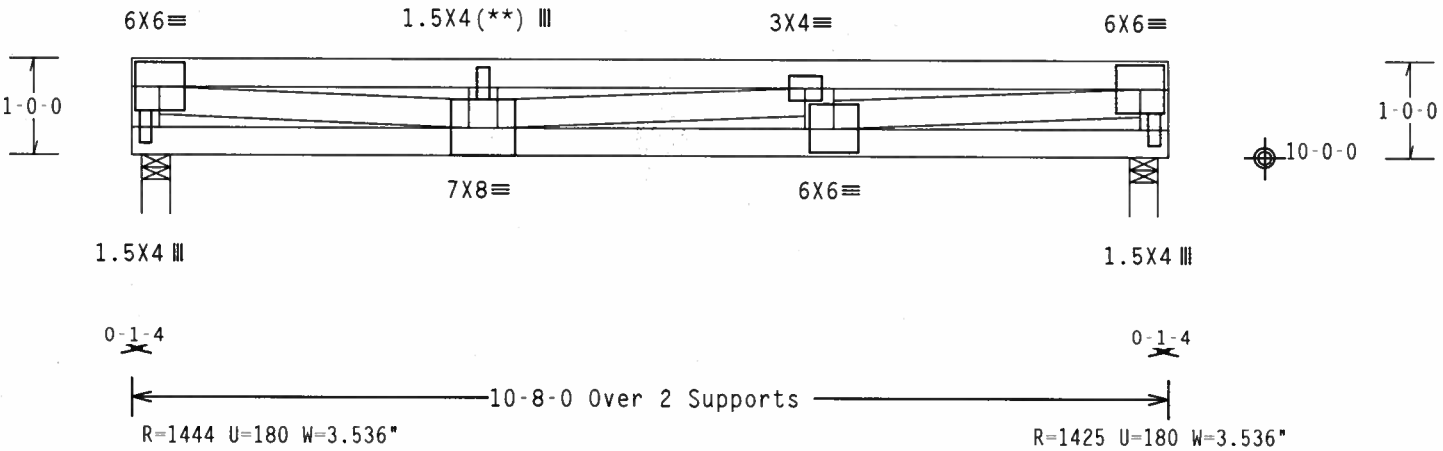
Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @ 7.50" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	10.67
BC	120	0.00	10.67

Truss must be installed as shown with top chord up.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46547
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226028
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119448
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - HJ7)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

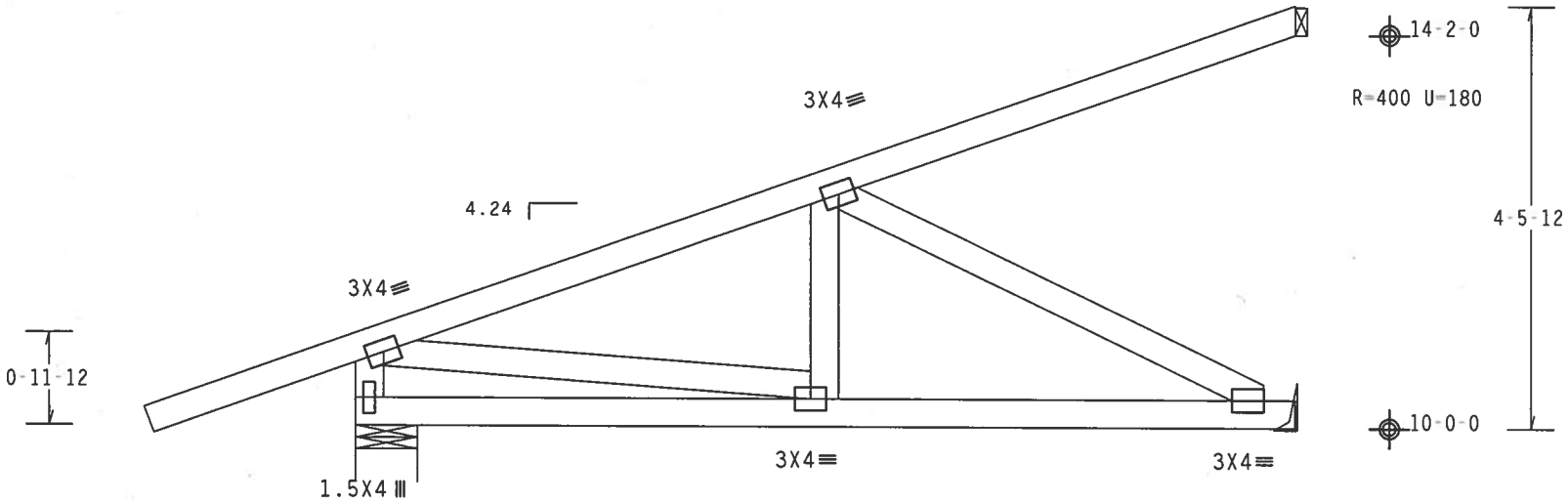
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	2.17	9.90
BC	75	0.00	9.90

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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

Provide (3) 0.162x3.5" 16d Common toe-nails at Top Chord.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 1

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

Scale =.5"/Ft.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46548
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226018
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119325
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

Calculated horizontal deflection is 0.13" due to live load and 0.17" due to dead load.

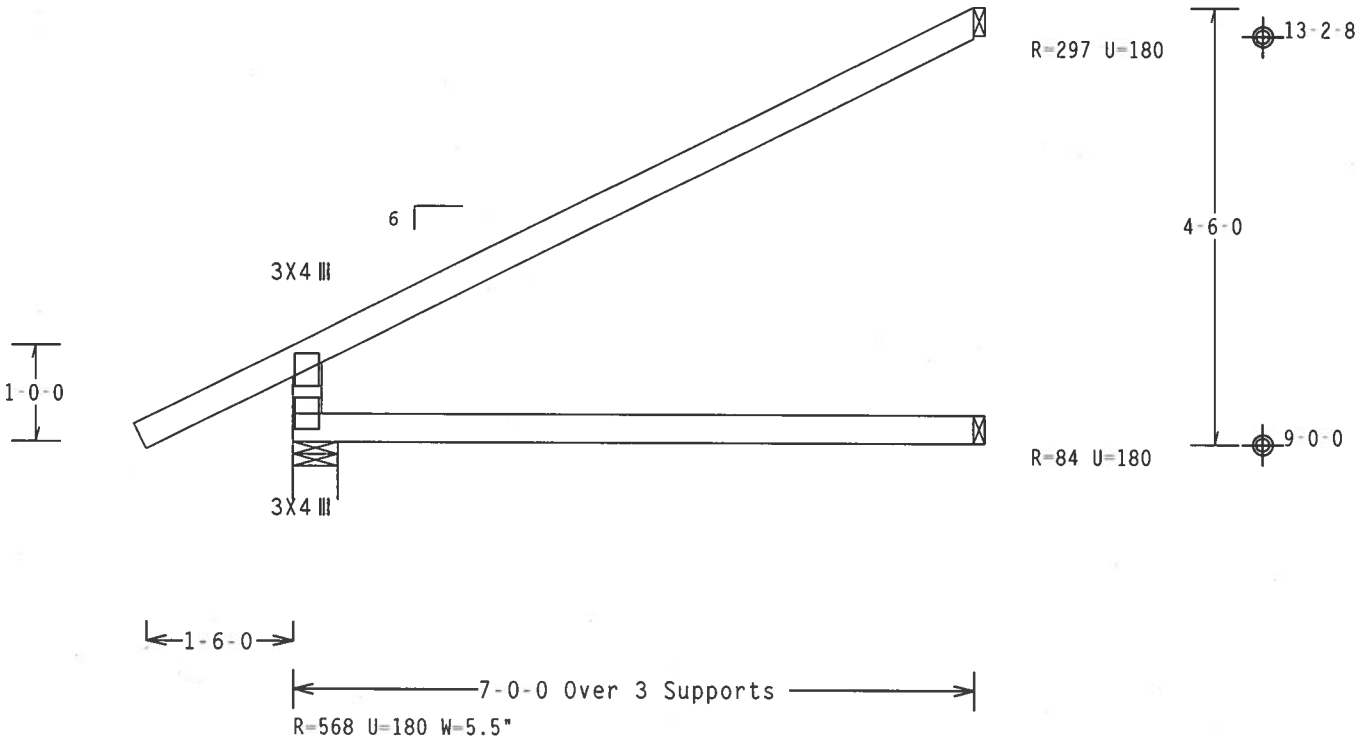
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	7.00
BC	84	0.00	7.00

Provide (3) 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
Cg/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:35 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46549
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226021
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119167
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

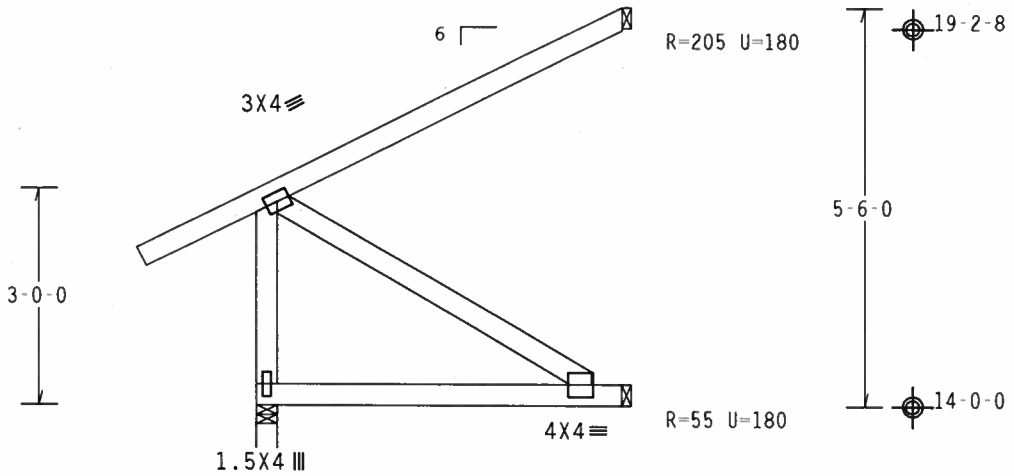
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 17.84 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	5.00
BC	60	0.00	5.00

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
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY: 2 FL/-/4/-/-/R/- Scale =.375"/Ft.

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FL Certificate of Authorization # 567

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

JAMES F. COLLINS LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 19 06

TC LL	30.0 PSF	REF R487-- 46550
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226084
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119261
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

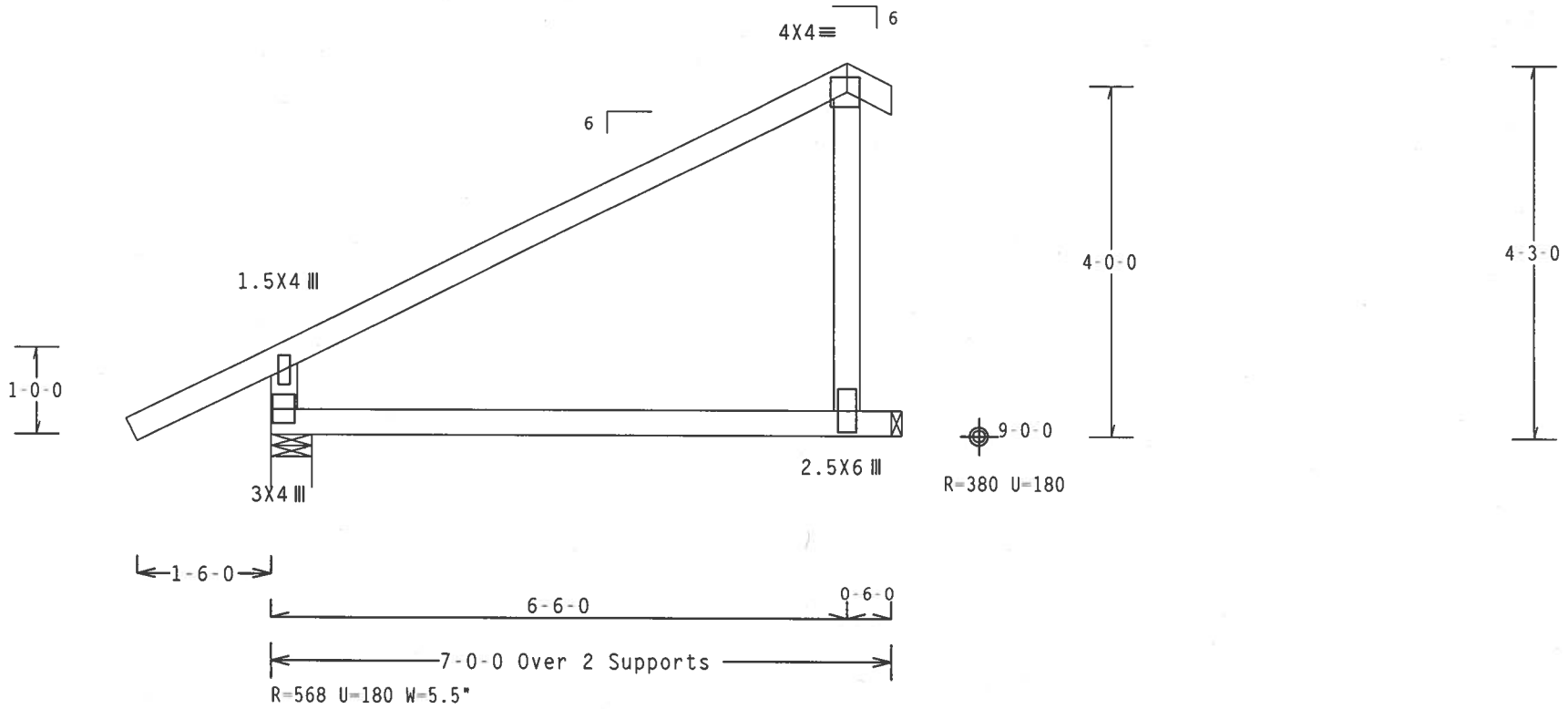
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	7.00
BC	84	0.00	7.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

Provide (3) 0.162x3.5" 16d Common toe-nails at Bottom Chord.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 1[illegible] QTY:4

FL/-/4/-/-/R/- Scale =.5"/Ft.

TC LL	30.0 PSF	REF R487-- 46551
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226056
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120194
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

JAMES F. COLLINS, JR. LICENSE No.52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	5.46
BC	64	0.15	5.46

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=7.5 psf, wind BC DL=5.0 psf.

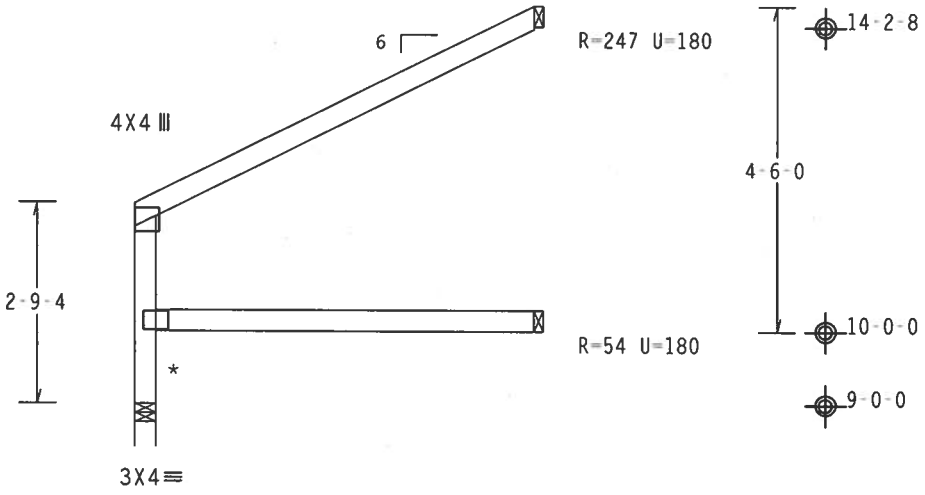
Calculated horizontal deflection is 0.31" due to live load and 0.26" due to dead load.

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

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

Left end vertical not exposed to wind pressure.

* DROP LEG IS NOT DESIGNED TO RESIST ANY LATERAL LOADING FROM WIND PRESSURE. MOMENT CONNECTION BETWEEN END VERTICAL AND WALL TO BE PROVIDED BY BUILDING DESIGNER.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:3 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52012 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46552
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226062
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119340
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

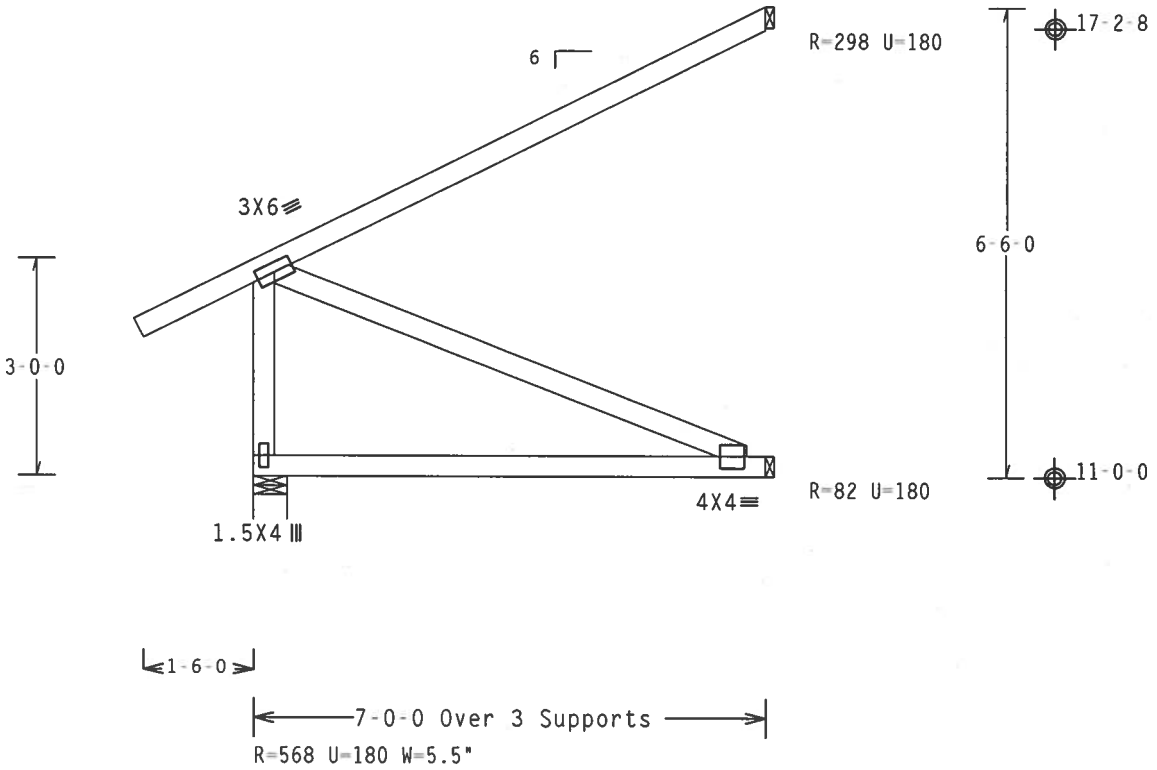
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.34 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	7.00
BC	75	0.00	7.00

Provide (3) 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
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:3 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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JAMES E. ROLLINS, JR. LICENSE No. 62212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46553
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226069
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119283
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

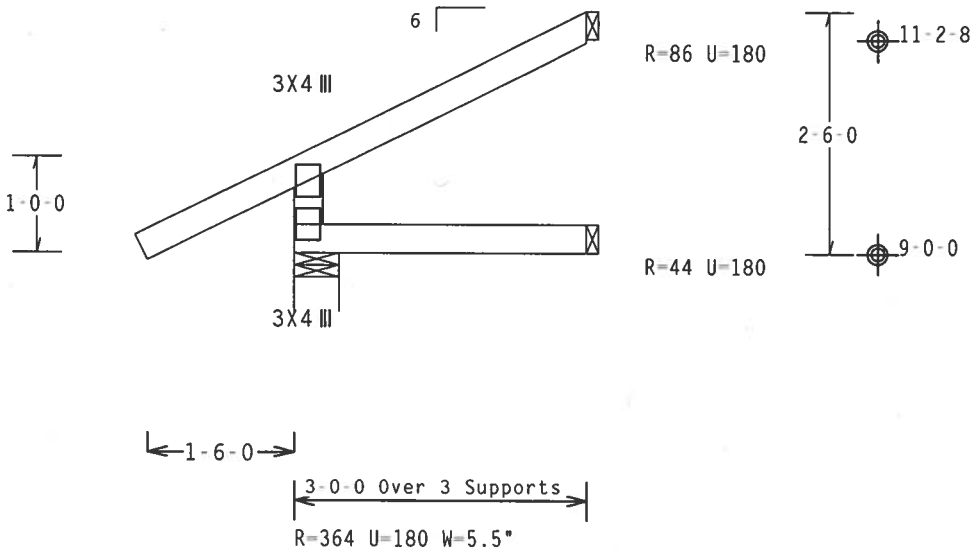
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	3.00
BC	36	0.00	3.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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1950 Marley Drive
Haines City, FL 33844
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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46554
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226045
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119212
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

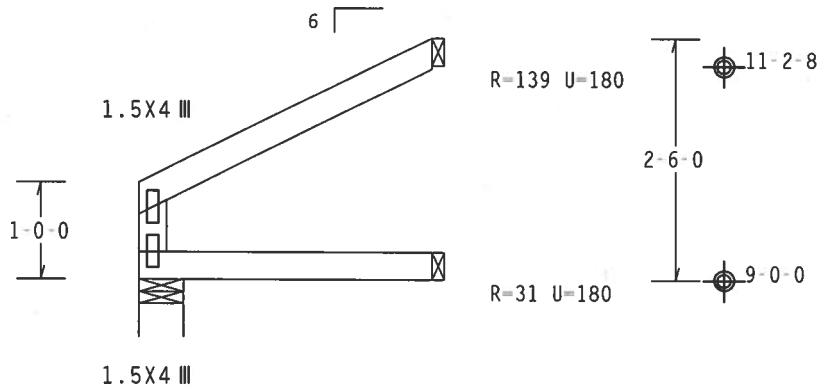
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

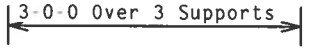
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	3.00
BC	36	0.00	3.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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





R=170 U=180 W=5.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:3 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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

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JAMES F. COLLINS JR LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

TC LL	30.0 PSF	REF R487-- 46555
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226054
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119216
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

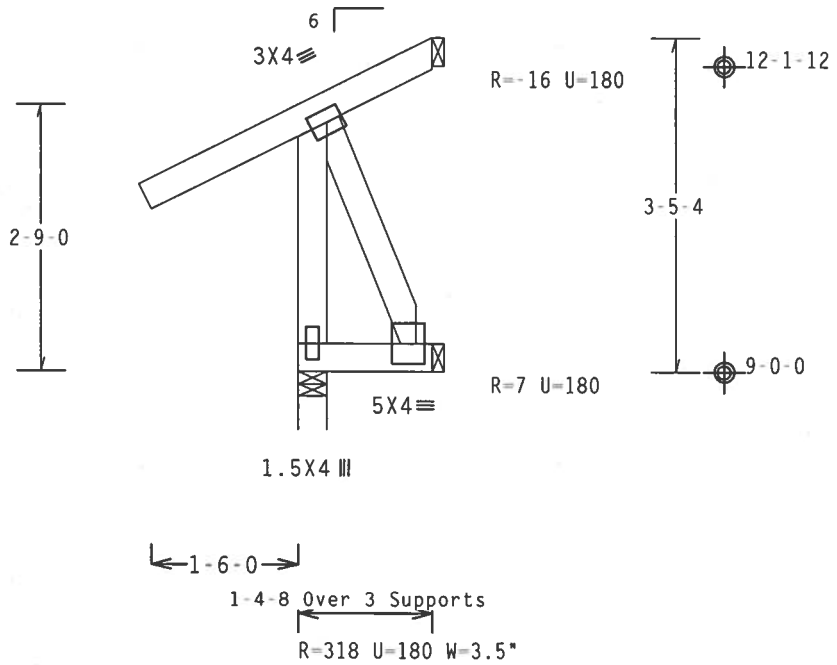
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	1.38
BC	16	0.00	1.38

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) 7.24.1230.1

PLT TYP. Wave

QTY:3 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS, JR. LICENSED No. E22172 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46556
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226005
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119205
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

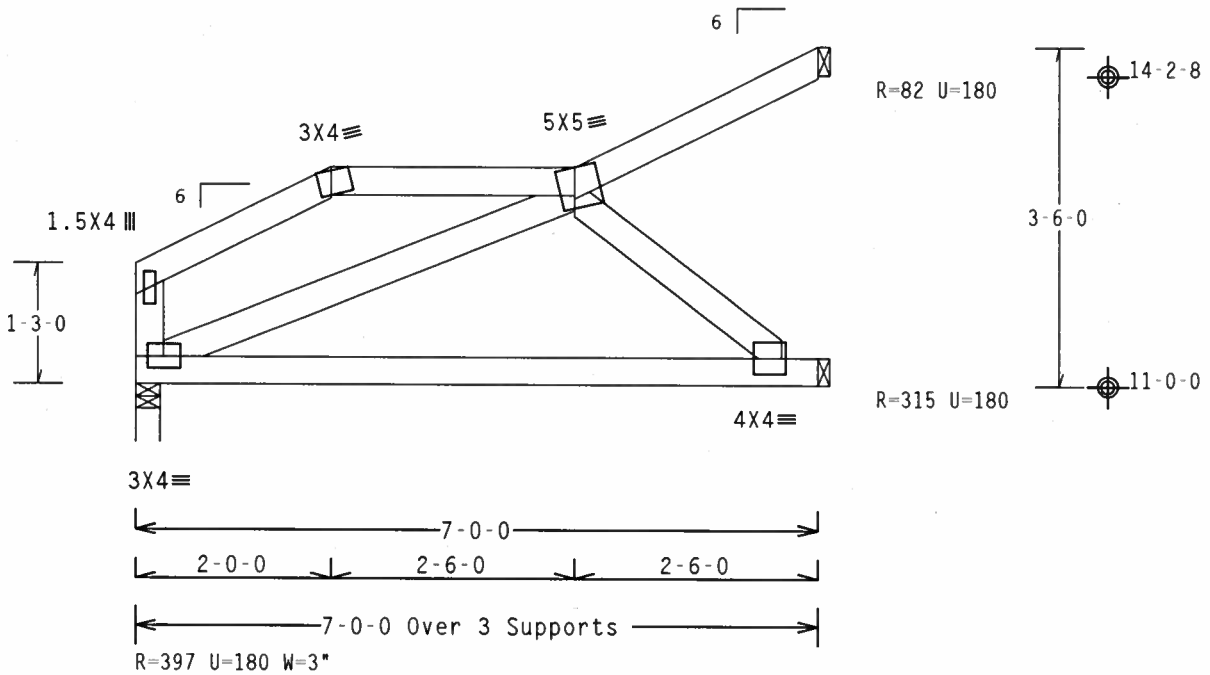
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	7.00
BC	75	0.00	7.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 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) 7.24.1230.1

PLT TYP. Wave QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 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.

JAMES F. COLLINS JR. LICENSE No. 52210 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15, 06

TC LL	30.0 PSF	REF R487-- 46557
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226074
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119390
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

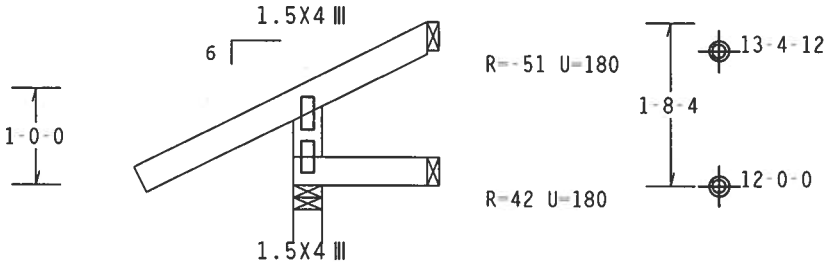
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

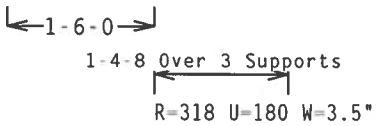
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	1.38
BC	16	0.00	1.38

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.123
QTY:6 FL/-/4/-/-/R/-
Scale =.5"/Ft.

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

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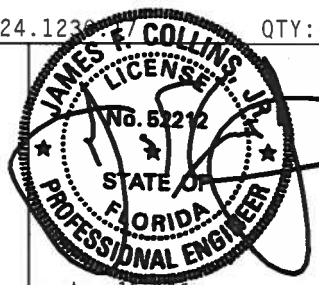


Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46558
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226027
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11263
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

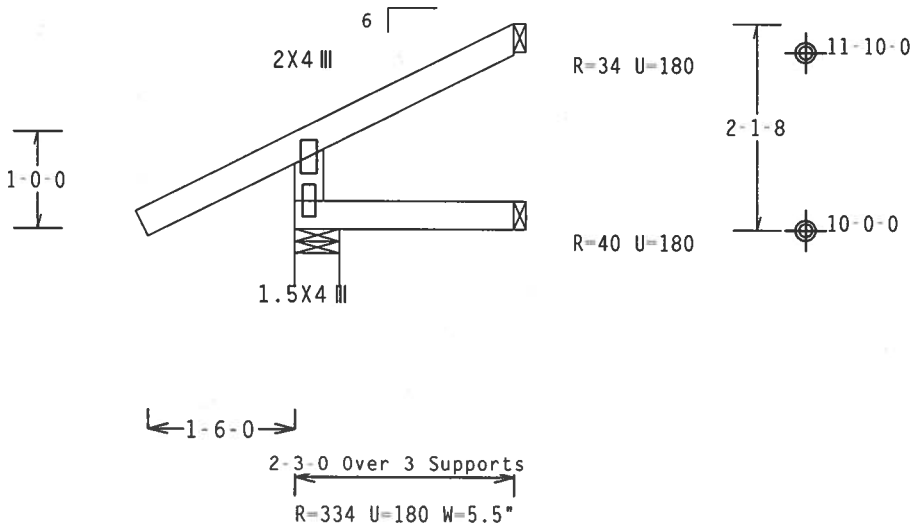
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	2.25
BC	27	0.00	2.25

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.13 QTY:3 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46559
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226030
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119426
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

Left end vertical not exposed to wind pressure.

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

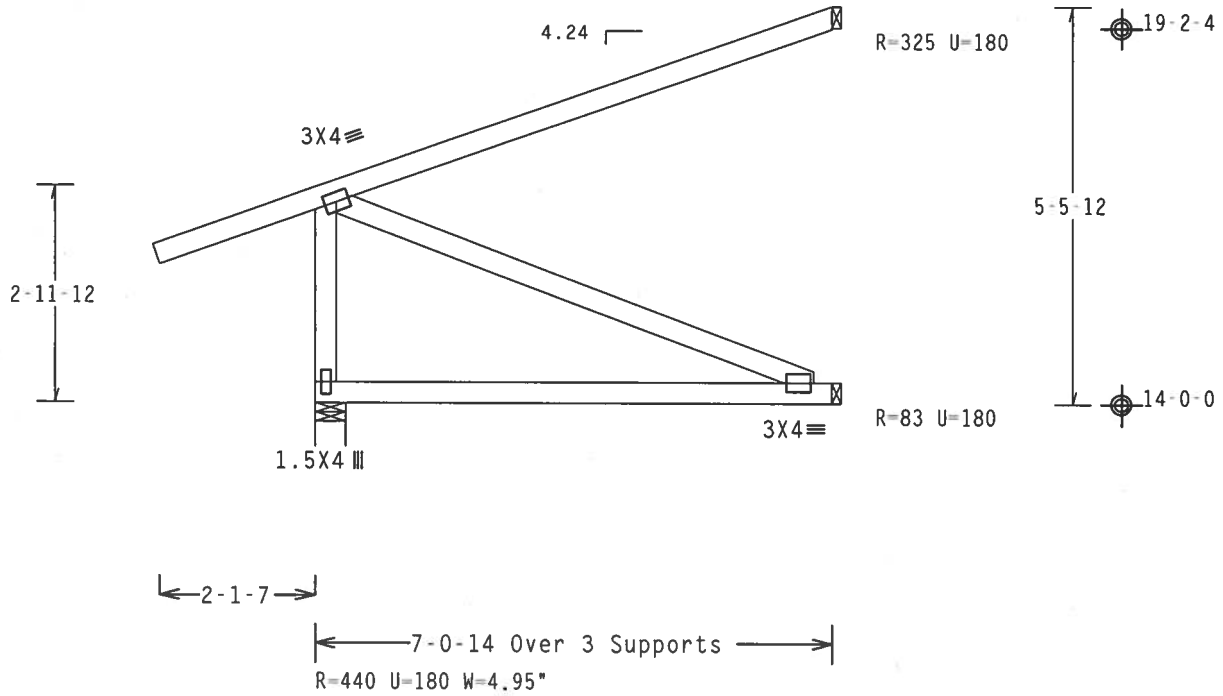
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 17.84 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-2.17	7.07
BC	75	0.00	7.07

Provide (3) 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
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46560
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226083
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119275
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

Left end vertical not exposed to wind pressure.

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

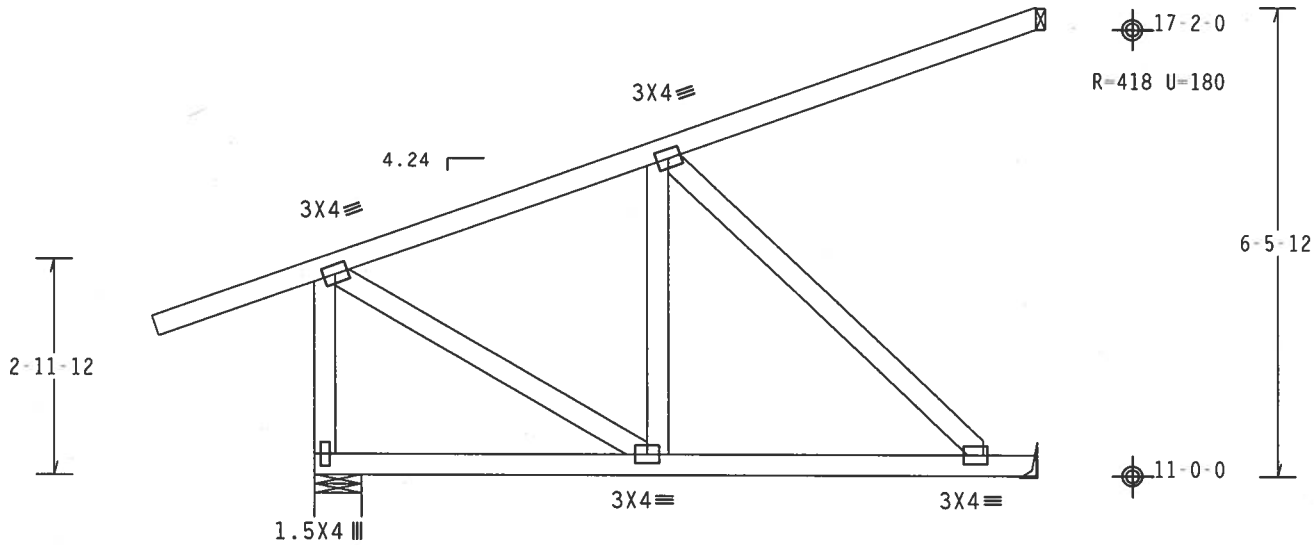
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

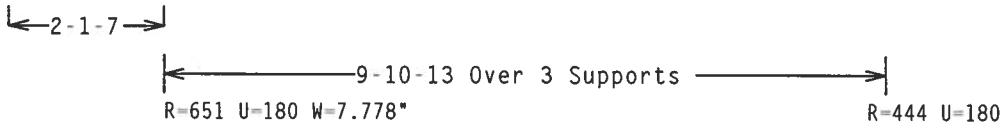
110 mph wind, 15.34 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-2.17	9.90
BC	75	0.00	9.90

Provide (3) 0.162x3.5" 16d Common toe-nails at Top Chord.





Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46561
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226063
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119308
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

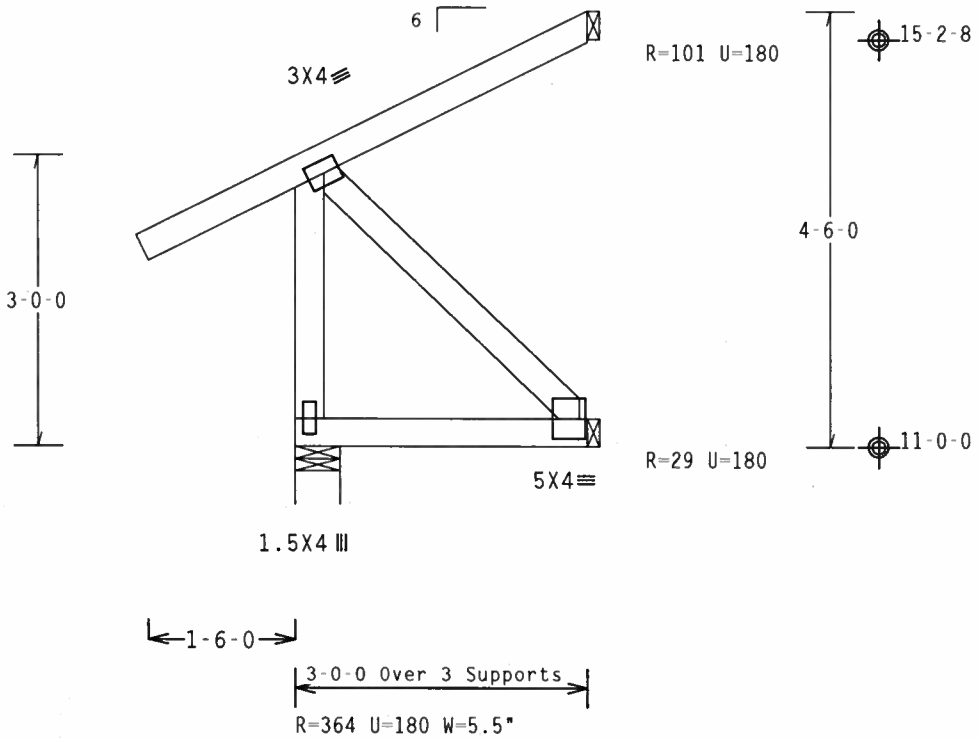
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	3.00
BC	36	0.00	3.00

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
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:6 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46562
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226066
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119255
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

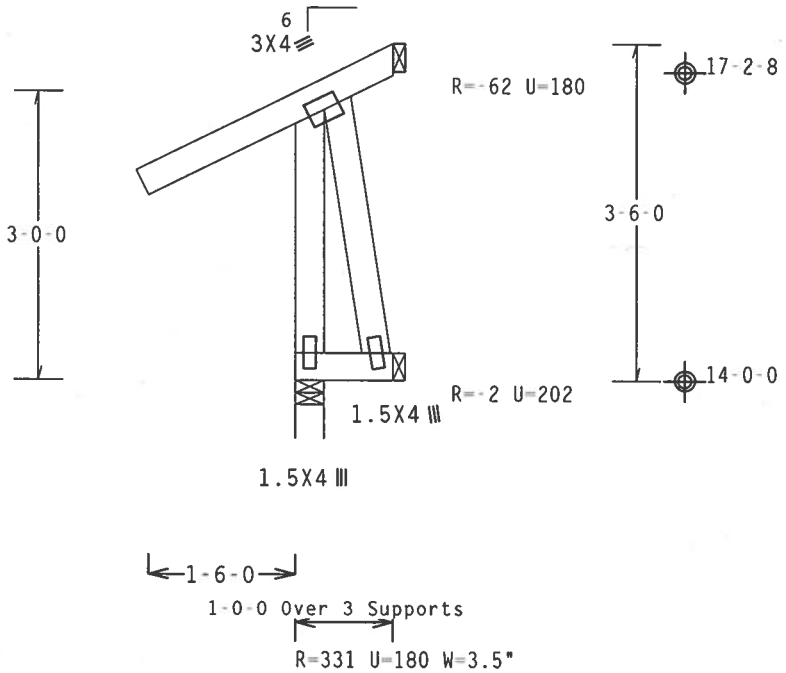
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.84 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	1.00
BC	10	0.00	0.83

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

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:6 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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JAMES F. COLLINS, JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1

TC LL	30.0 PSF	REF R487-- 46563
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226067
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119246
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

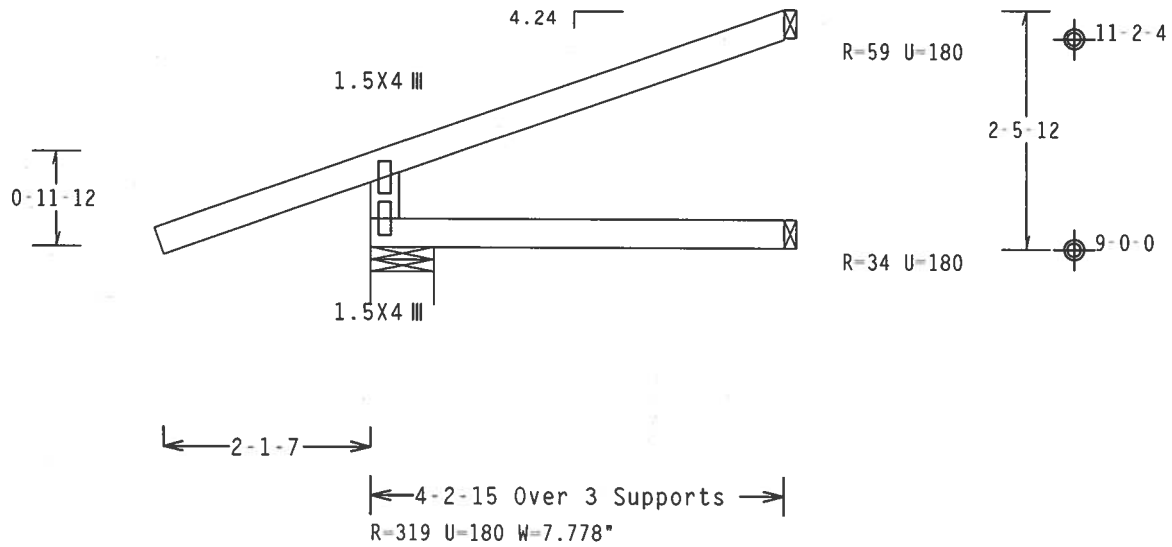
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	2.17	4.24
BC	51	0.00	4.24

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Hipjack supports 3-0-0 setback jacks with no webs.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 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.

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46564
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226024
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119228
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

Left end vertical not exposed to wind pressure.

Hipjack supports 1-4-8 setback jacks with no webs.

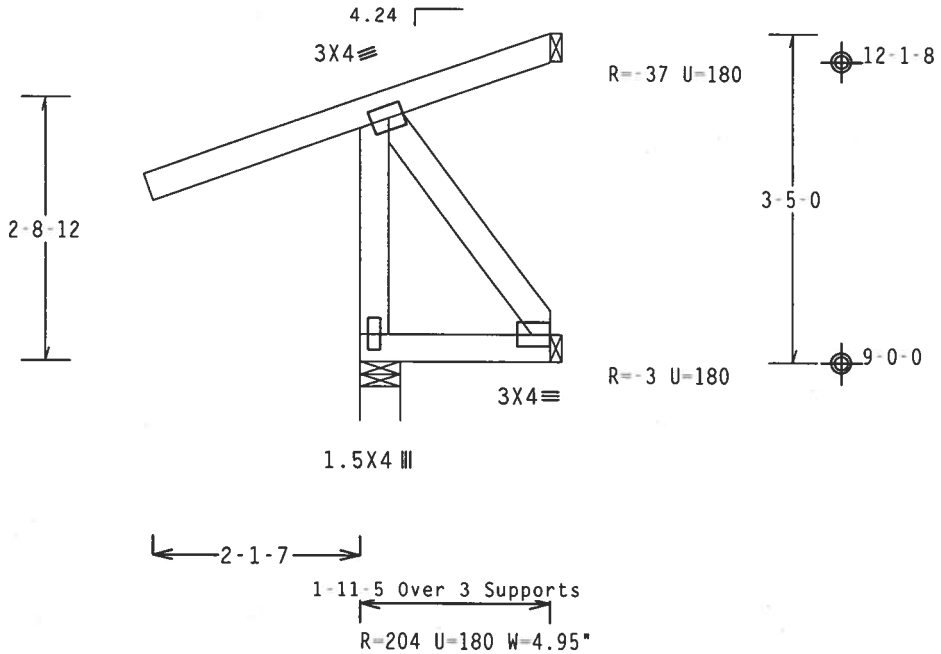
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-2.17	1.94
BC	22	0.00	1.85

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

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

JAMES F. COLLINS LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46565
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226076
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119209
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - HJS)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

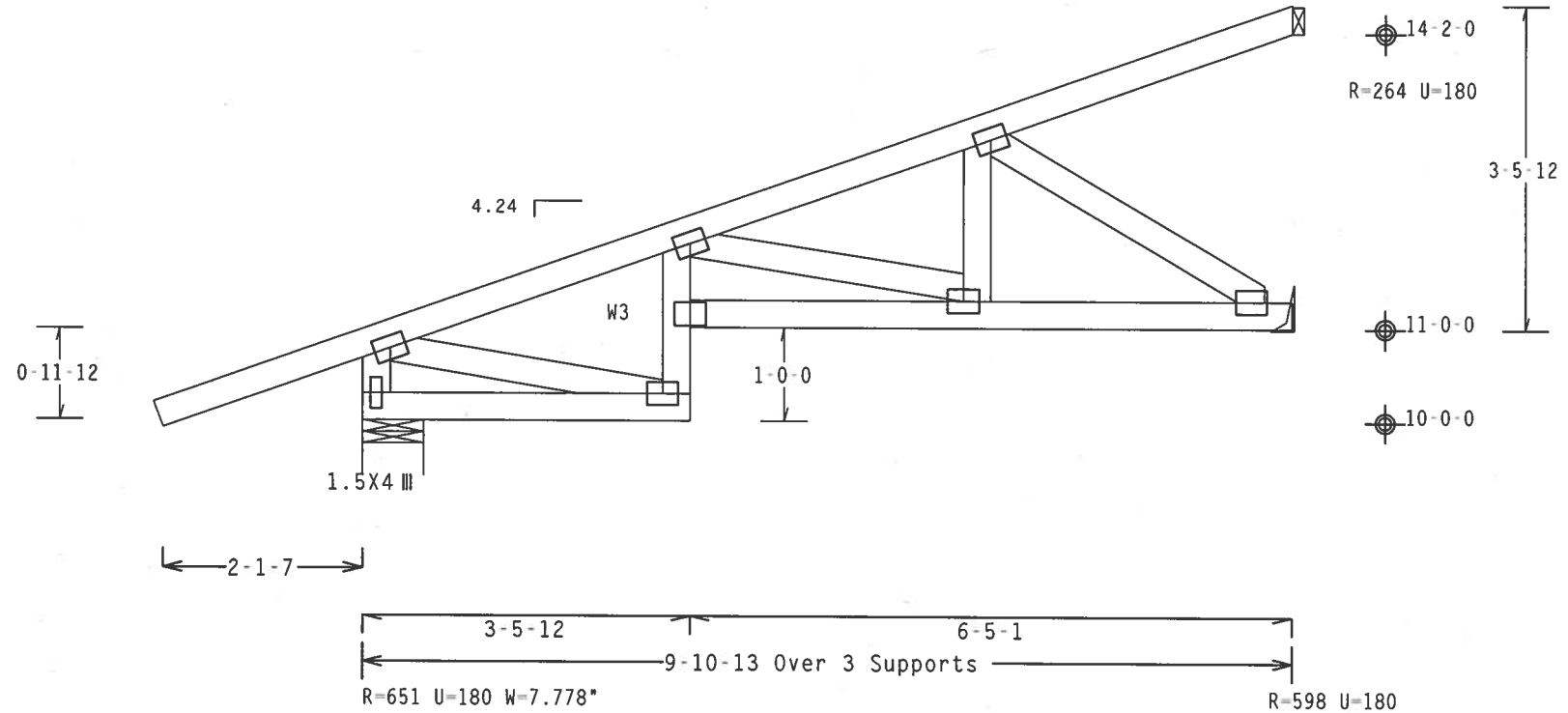
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-2.17	9.90
BC	42	0.00	3.48
BC	42	3.33	3.33
BC	75	3.33	9.90

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES E. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46566
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226070
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 80433 REV
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

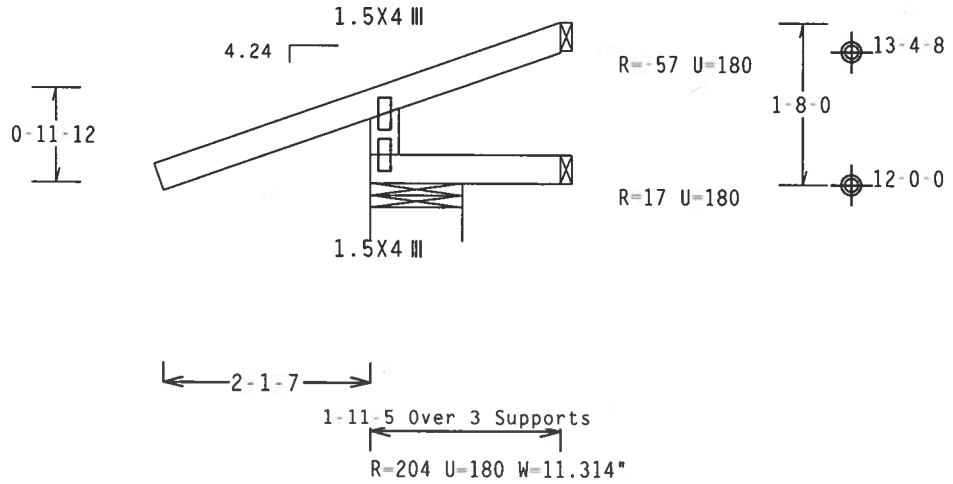
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-2.17	1.94
BC	23	0.00	1.94

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Hipjack supports 1-4-8 setback jacks with no webs.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.13

PLT TYP. Wave

QTY:2 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 14,2006

TC LL	30.0 PSF	REF R487-- 46567
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226025
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11273
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

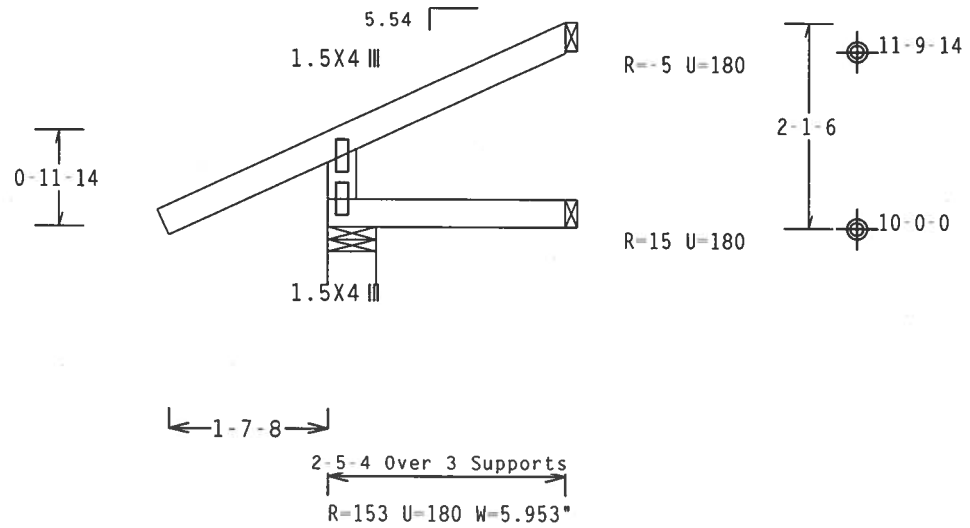
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.69	2.44
BC	29	0.00	2.44

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Hipjack supports 1-8-11 setback jacks with no webs.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS JR. LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46568
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226029
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119432
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

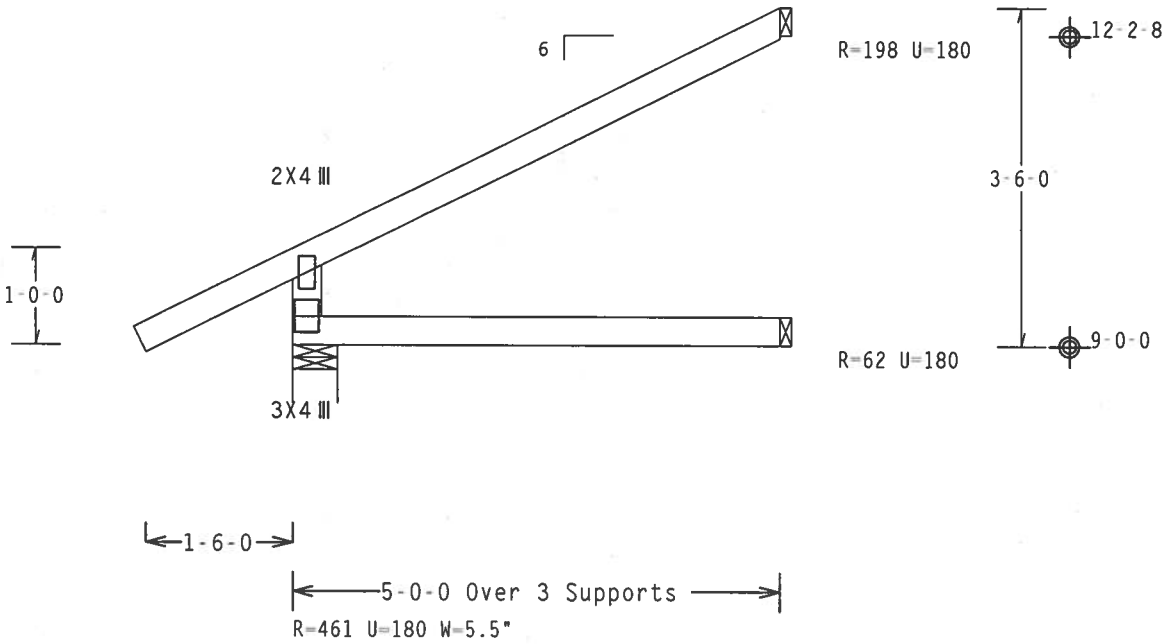
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	5.00
BC	60	0.00	5.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:6 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS JR. LICENSE No. 32212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46569
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226019
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119176
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

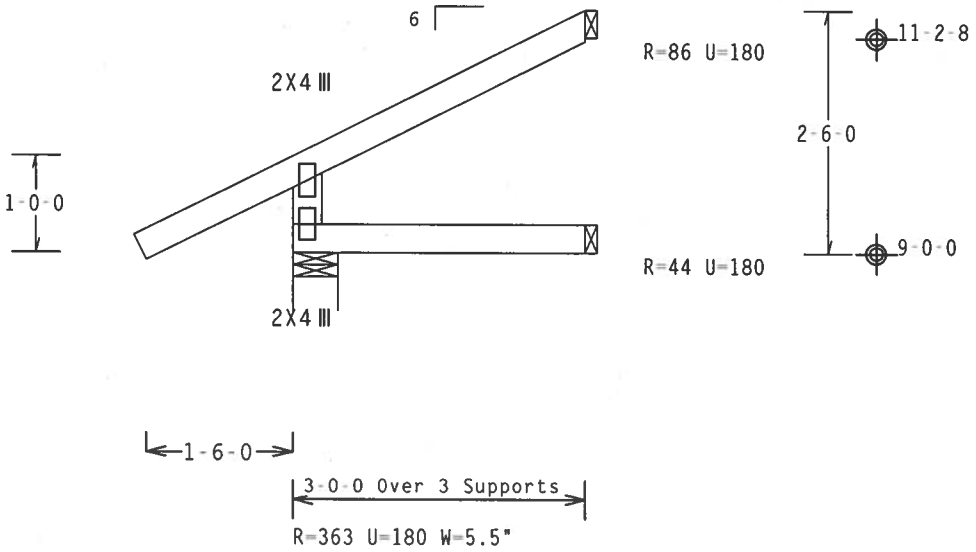
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	3.00
BC	36	0.00	3.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave QTY:8 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46570
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226020
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119183
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

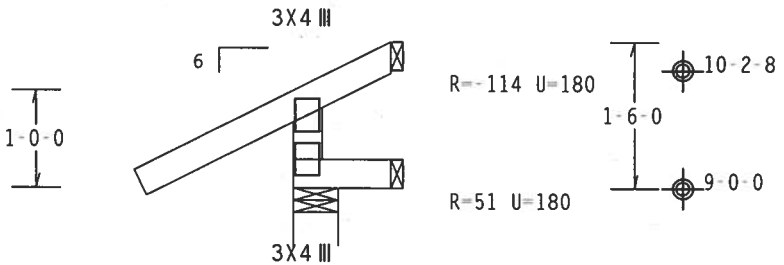
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	1.00
BC	12	0.00	1.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230 13

PLT TYP. Wave

QTY:16 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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

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

JAMES F. COLLINS, JR. LICENSE NO. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46571
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226035
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119188
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

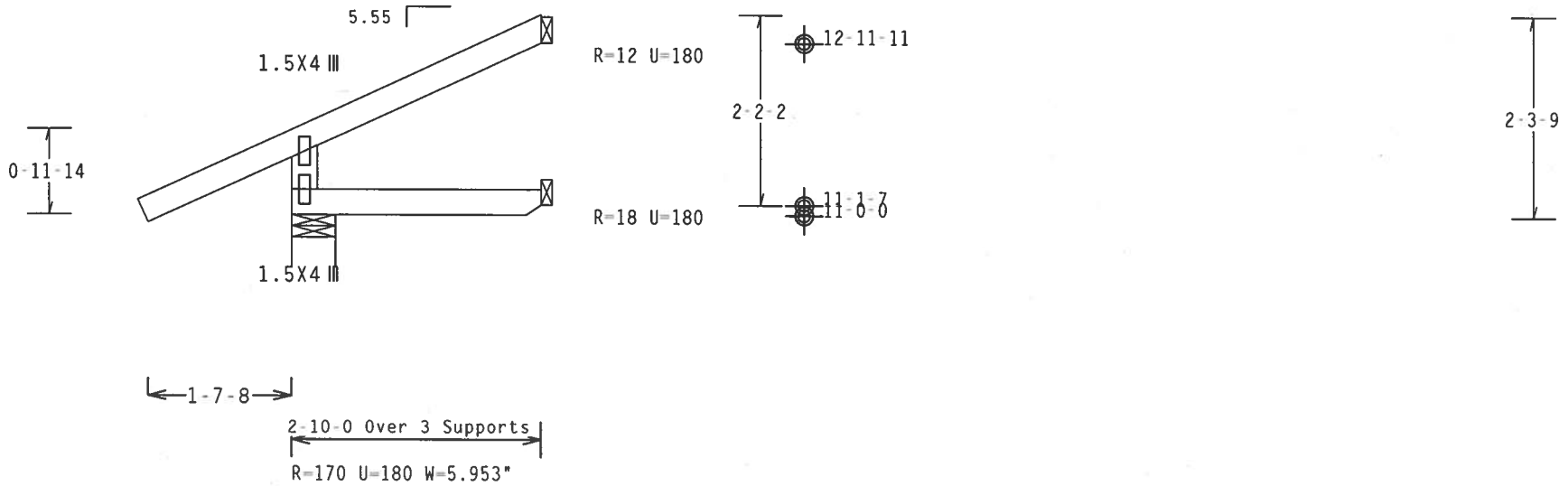
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.69	2.83
BC	34	0.00	2.83

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Hipjack supports 2-0-0 setback jacks with no webs.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46572
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226090
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11191
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.69	5.41
BC	32	0.00	2.66
BC	23	2.66	4.26
BC	14	4.26	5.41

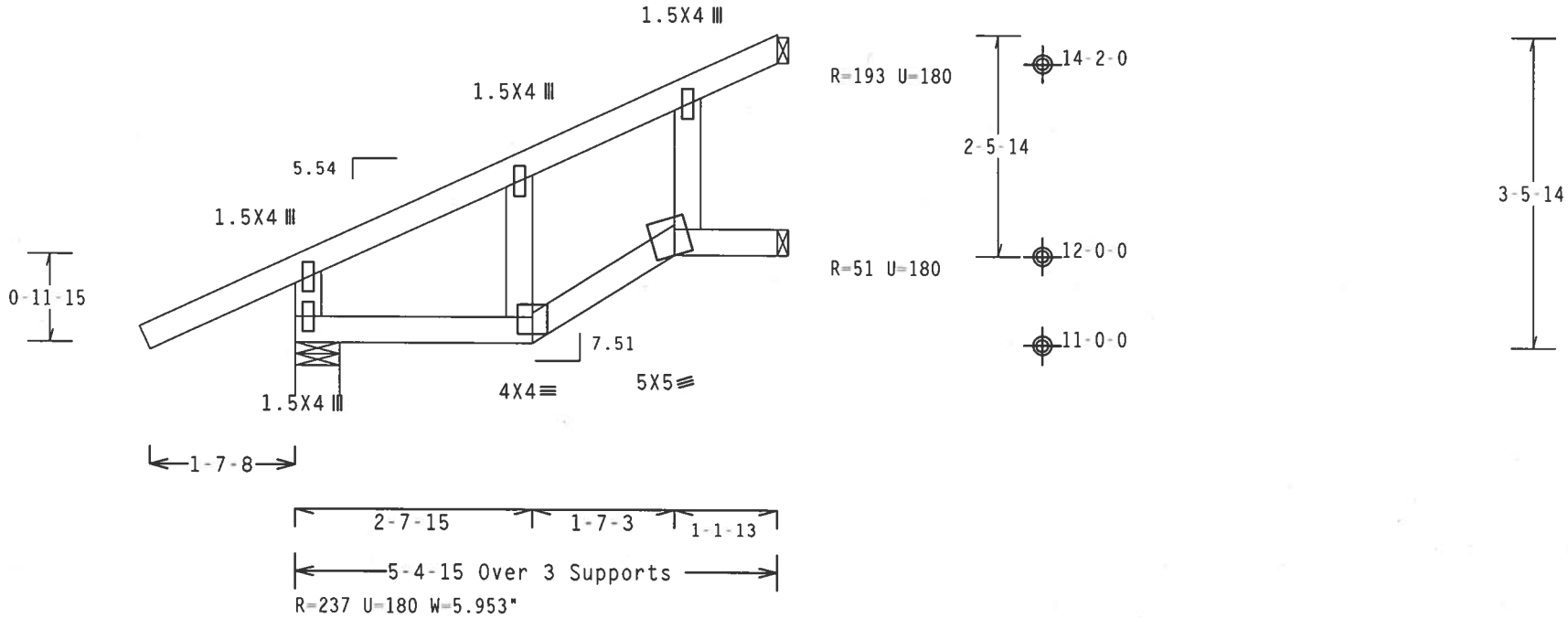
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

Hipjack supports 3-9-15 setback jacks with no webs.

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

Fasten rated sheathing to one face of this frame.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:2 FL/-/4/-/-/R/-

Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No.52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46573
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226091
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11204
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

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

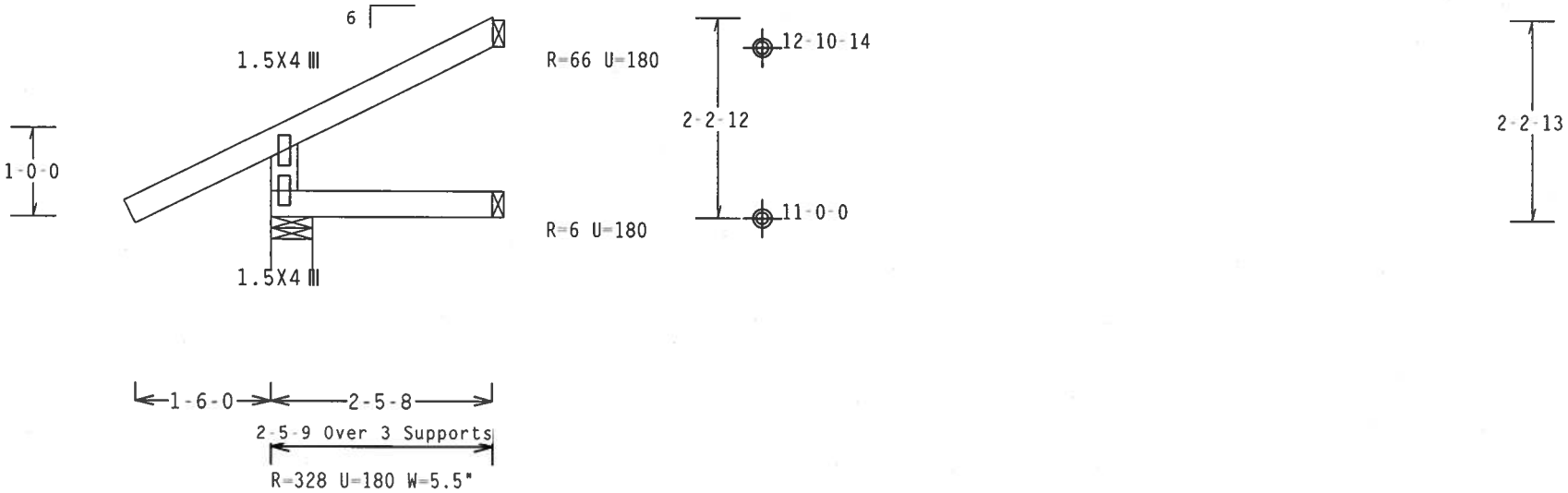
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	2.46
BC	29	0.00	2.46

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52912 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46574
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226003
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11161
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

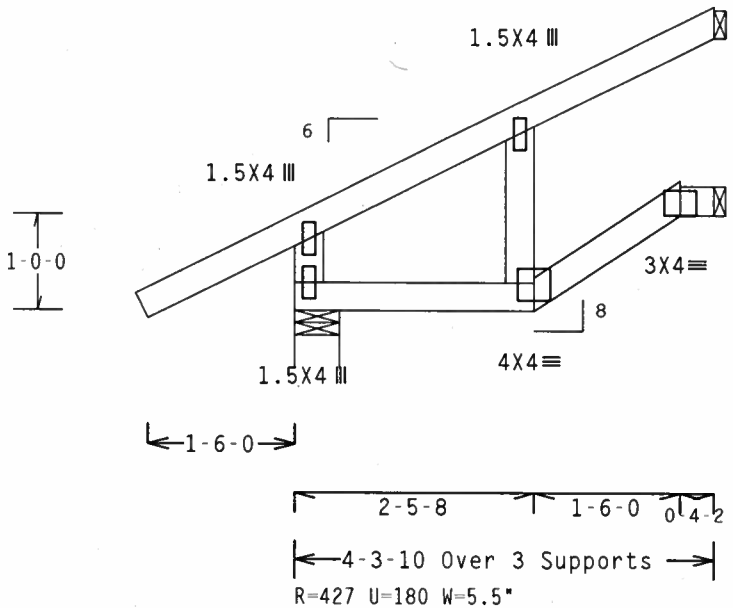
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

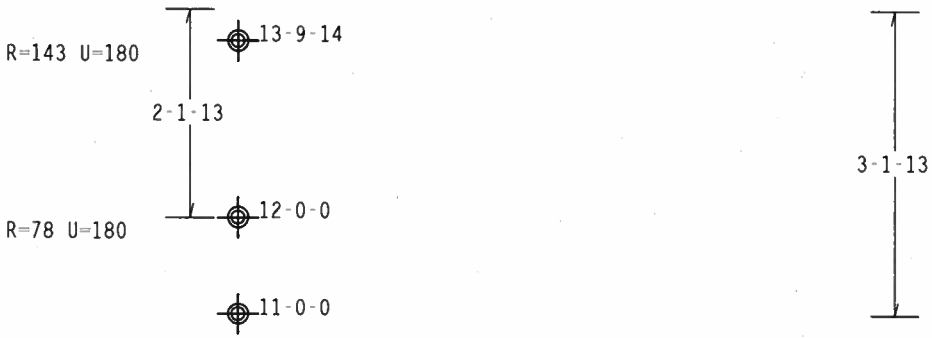
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	4.30
BC	30	0.00	2.46
BC	22	2.46	4.30

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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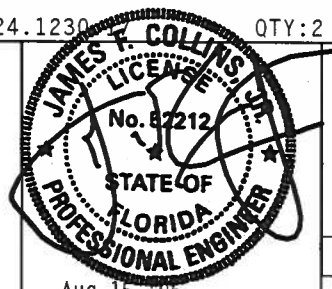


Aug 15 06

TC LL	30.0 PSF	REF R487-- 46575
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226004
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11173
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

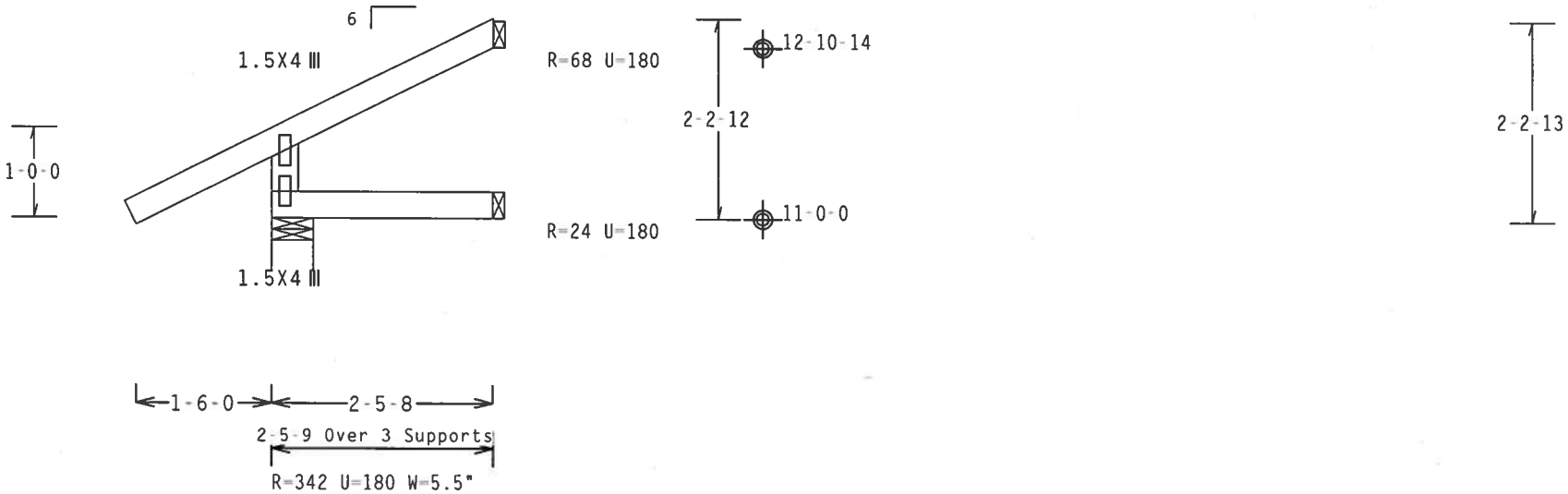
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	2.46
BC	29	0.00	2.46

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

PLT TYP. Wave

QTY:4 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52218 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46576
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226092
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11181
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

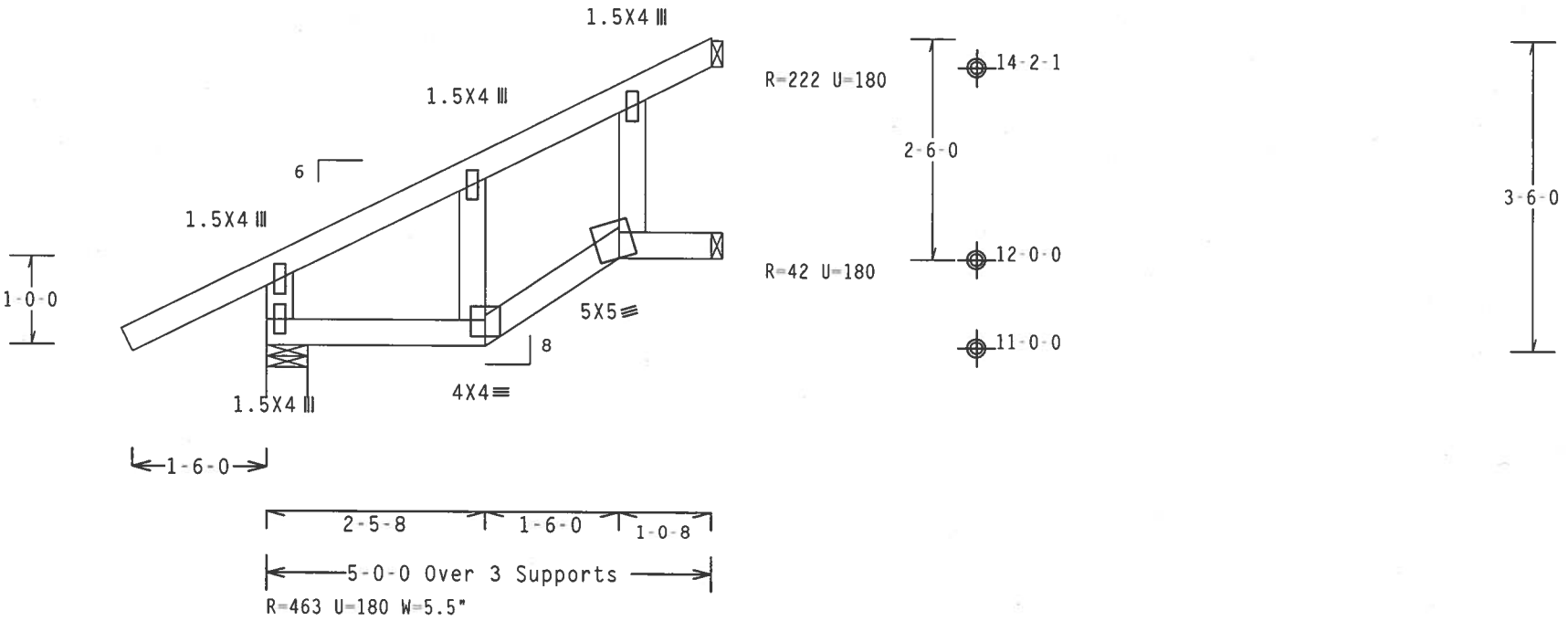
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	5.00
BC	30	0.00	2.46
BC	22	2.46	3.96
BC	13	3.96	5.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46577
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226093
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11209
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

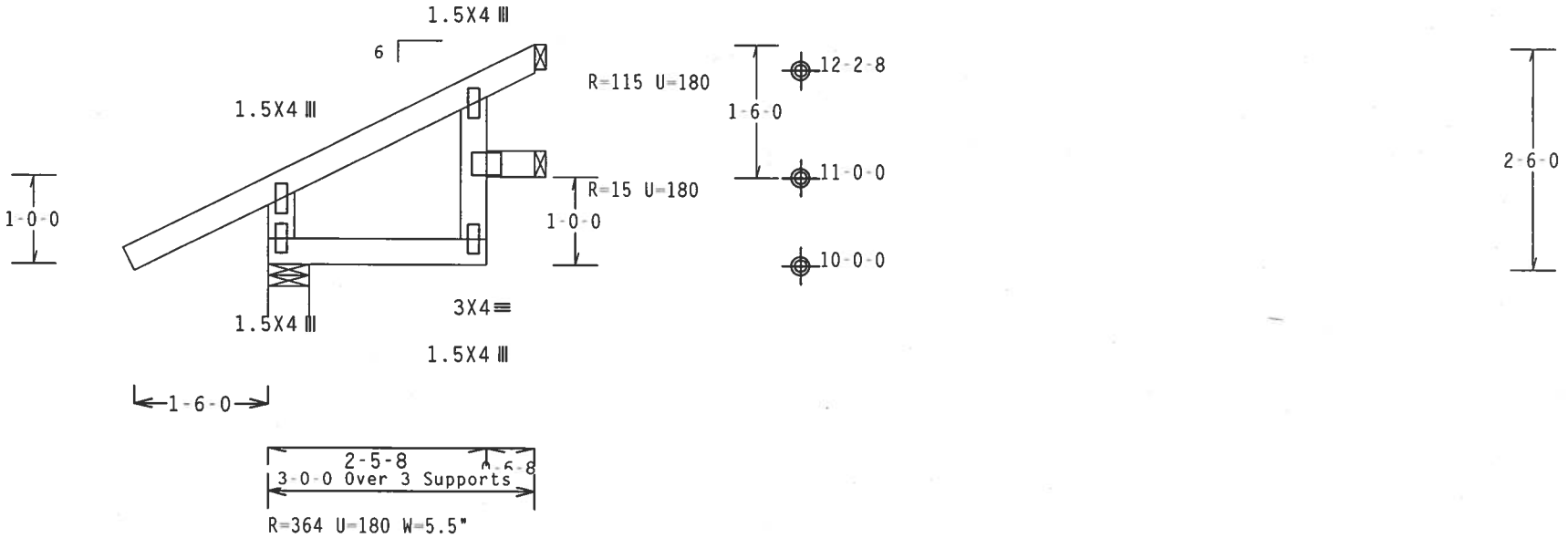
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	3.00
BC	29	0.00	2.46
BC	29	2.31	2.31
BC	8	2.31	3.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.13

PLT TYP. Wave QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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

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

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46578
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226072
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119366
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - J3S2)

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

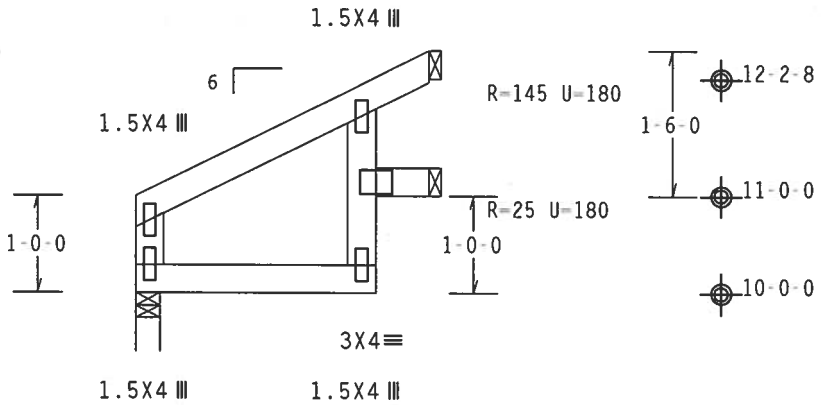
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

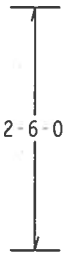
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	3.00
BC	29	0.00	2.46
BC	29	2.31	2.31
BC	8	2.31	3.00

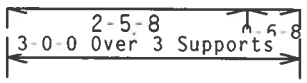
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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







R=170 U=180 W=3"

Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230.3

PLT TYP. Wave QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46579
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226073
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119361
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

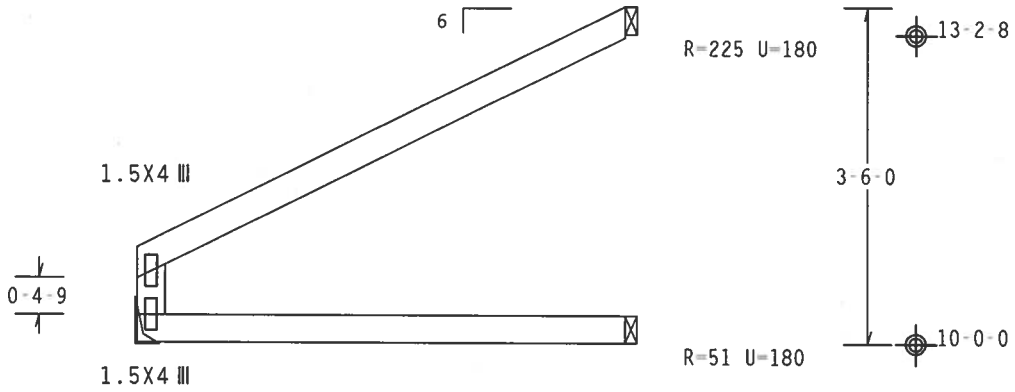
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.08	5.00
BC	58	0.14	5.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 1
QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS LICENSE No.52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 1[illegible]

TC LL	30.0 PSF	REF R487-- 46581
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226022
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119534
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - J5D)

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

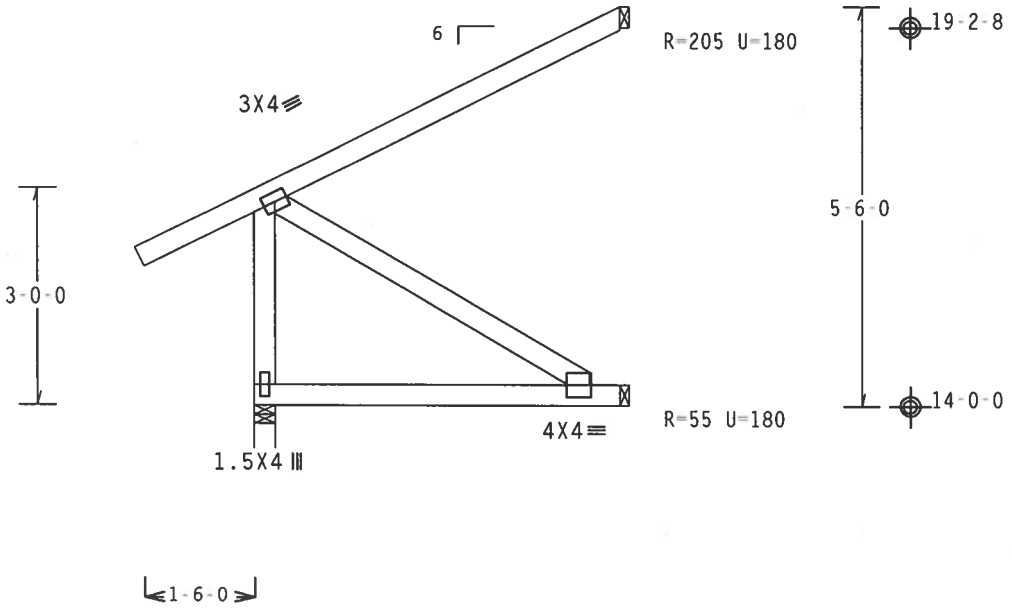
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 17.84 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	5.00
BC	60	0.00	5.00

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
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of [illegible] on # 567

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JAMES F. COLLINS LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46582
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226064
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119267
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

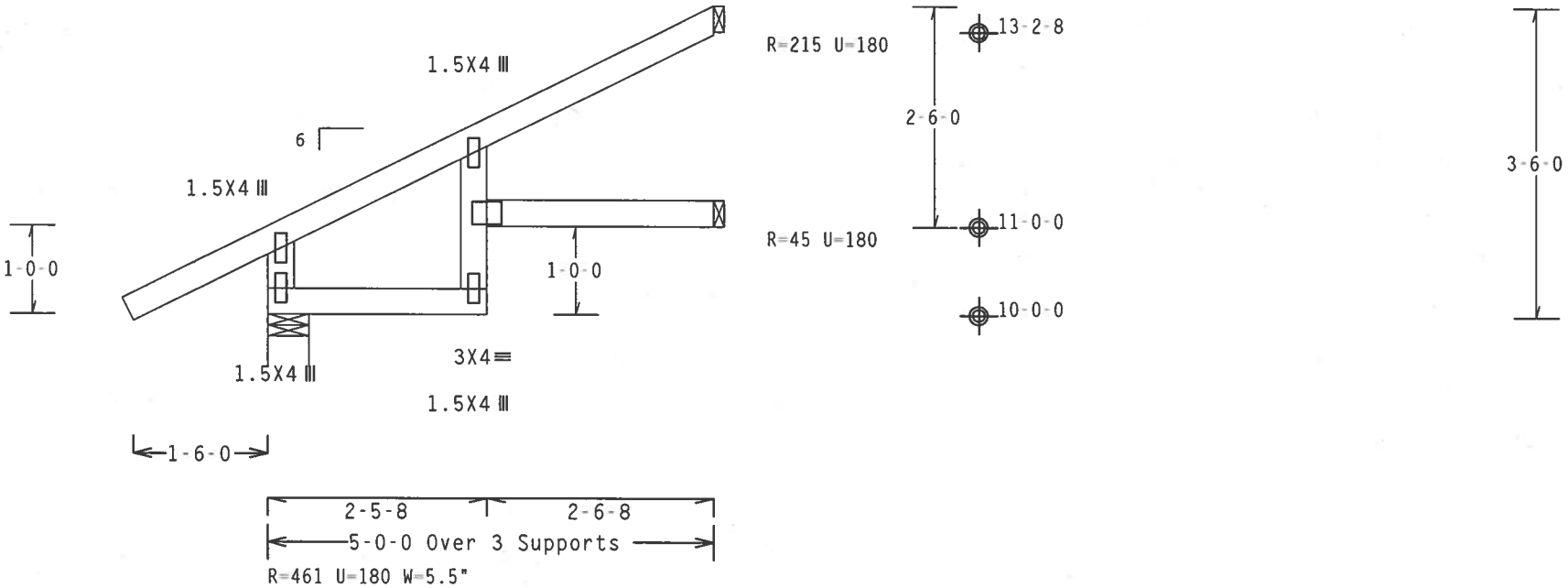
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	5.00
BC	29	0.00	2.46
BC	29	2.31	2.31
BC	32	2.31	5.00

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

PLT TYP. Wave

QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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1950 Marley Drive
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JAMES E. COLLINS LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 17,2006

TC LL	30.0 PSF	REF R487-- 46584
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226071
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119376
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

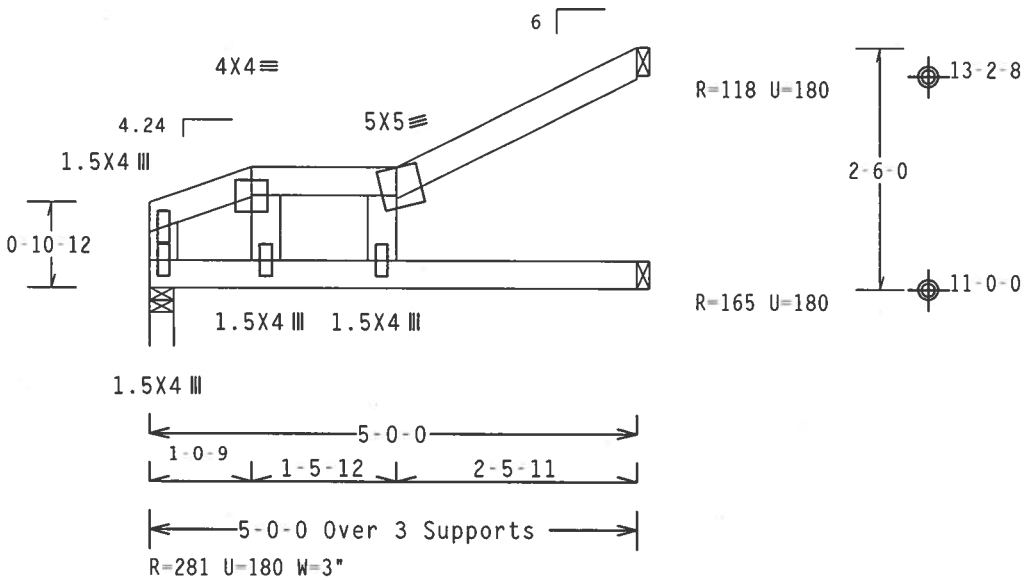
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	5.00
BC	60	0.00	5.00

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46585
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226042
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119399
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - MGC)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:
:Lt Stubbed Wedge 2x6 SP #2:

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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

Provide connection for concentrated load(s) shown.

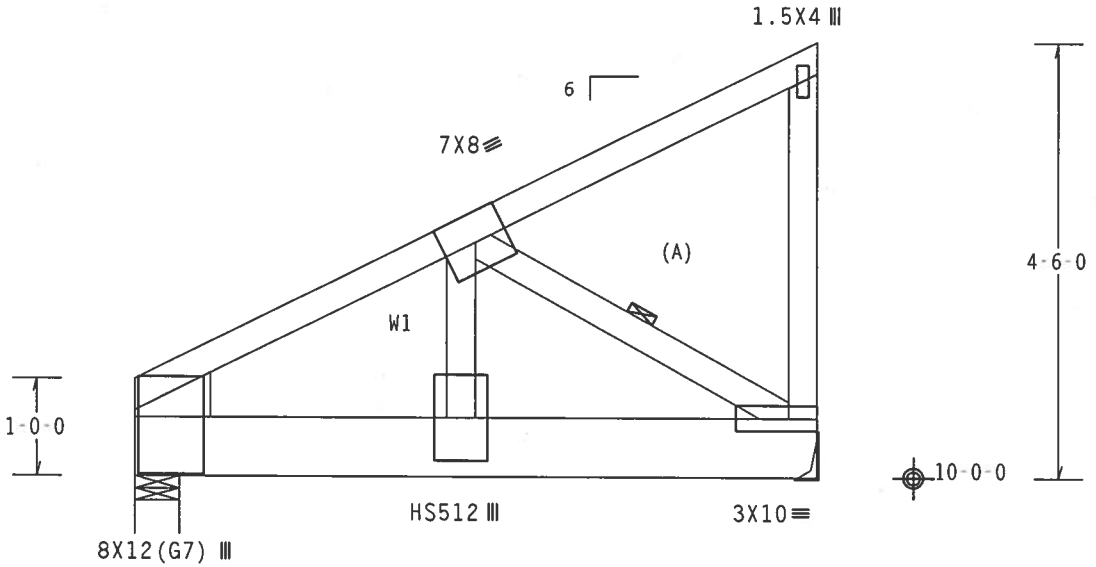
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC	From	94 PLF	at	0.00	to	94 PLF	at 7.00
BC	From	20 PLF	at	0.00	to	20 PLF	at 7.00
BC	283 LB	Conc. Load	at	1.09			
BC	2889 LB	Conc. Load	at	3.06			
BC	1448 LB	Conc. Load	at	5.06			

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	7.00
BC	84	0.00	7.00



7-0-0 Over 2 Supports

R=2662 U=180 W=5.5" R=2753 U=180

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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

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

IMPORTANTFURNISH 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/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 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.

JAMES F. COLLINS JR. LICENSE No. 62212 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	30.0	PSF
TC DL	15.0	PSF
BC DL	10.0	PSF
BC LL	0.0	PSF
TOT.LD.	55.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	

REF	R487-- 46586
DATE	08/14/06
DRW	HCUSR487 06226006
	HC-ENG TCE/ADR
SEQN-	119580
JREF-	1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - K1)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

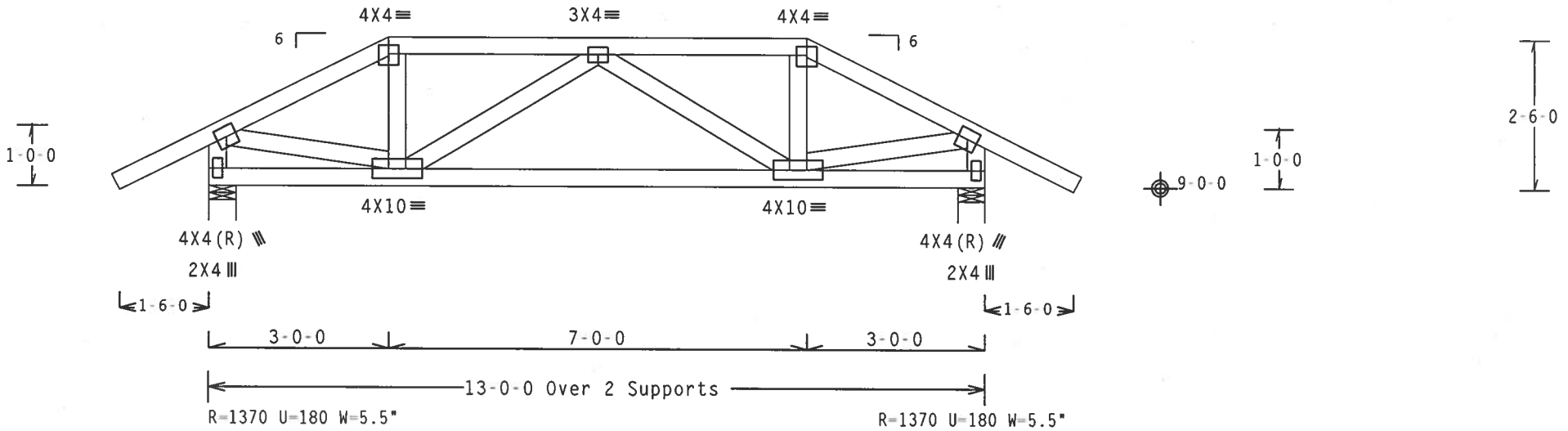
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	14.57
BC	120	0.00	13.00

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF at	-1.63 to	94 PLF at	14.63
BC - From	4 PLF at	-1.63 to	4 PLF at	0.00
BC - From	20 PLF at	0.00 to	20 PLF at	13.00
BC - From	4 PLF at	13.00 to	4 PLF at	14.63
TC -	145 LB Conc. Load at	3.06,	9.94	
TC -	139 LB Conc. Load at	5.06,	6.50,	7.94
BC -	78 LB Conc. Load at	3.06,	9.94	
BC -	31 LB Conc. Load at	5.06,	6.50,	7.94

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

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

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

Scale =.375"/Ft.

ALPINE
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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

TC LL	30.0 PSF	REF R487-- 46587
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226001
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119236
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.584'
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.584'

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	94 PLF	at	-1.63	to	94 PLF at 14.63
BC - From	4 PLF	at	-1.63	to	4 PLF at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF at 13.00
BC - From	4 PLF	at	13.00	to	4 PLF at 14.63

BC - 5664 LB Conc. Load at 7.06
BC - 2685 LB Conc. Load at 9.06, 11.06

Provide connection for concentrated load(s) shown.

2 COMPLETE TRUSSES REQUIRED

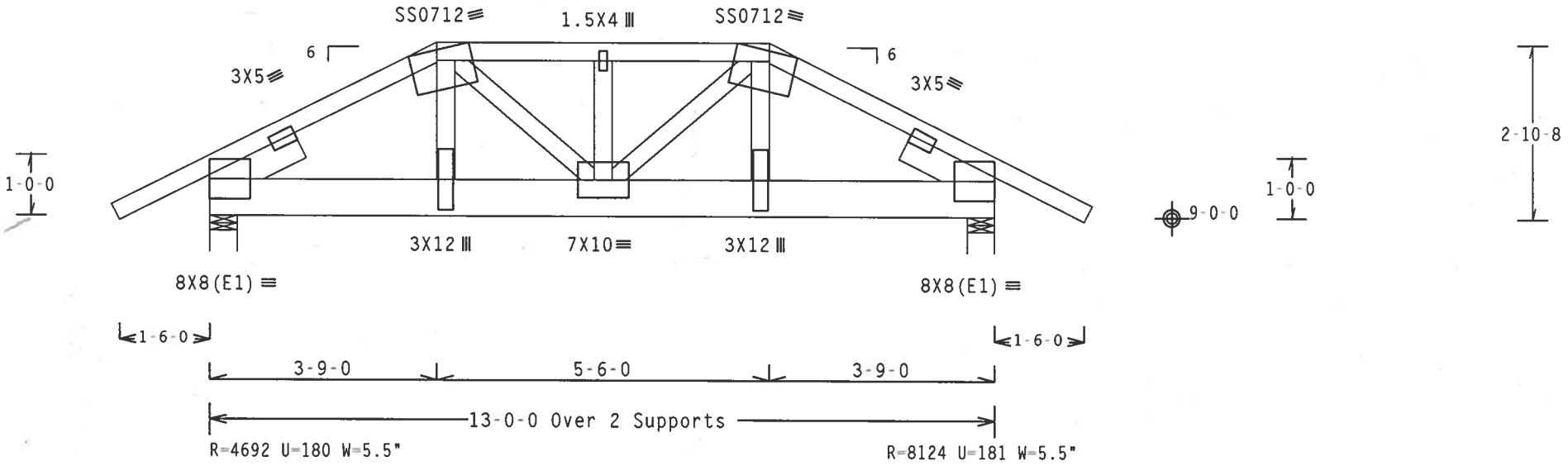
Nailing Schedule: (12d_Box_or_Gun_(0.128"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 3.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	14.57
BC	120	0.00	13.00

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. 18 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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JAMES F. COLLINS, JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46588
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226013
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 120204
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

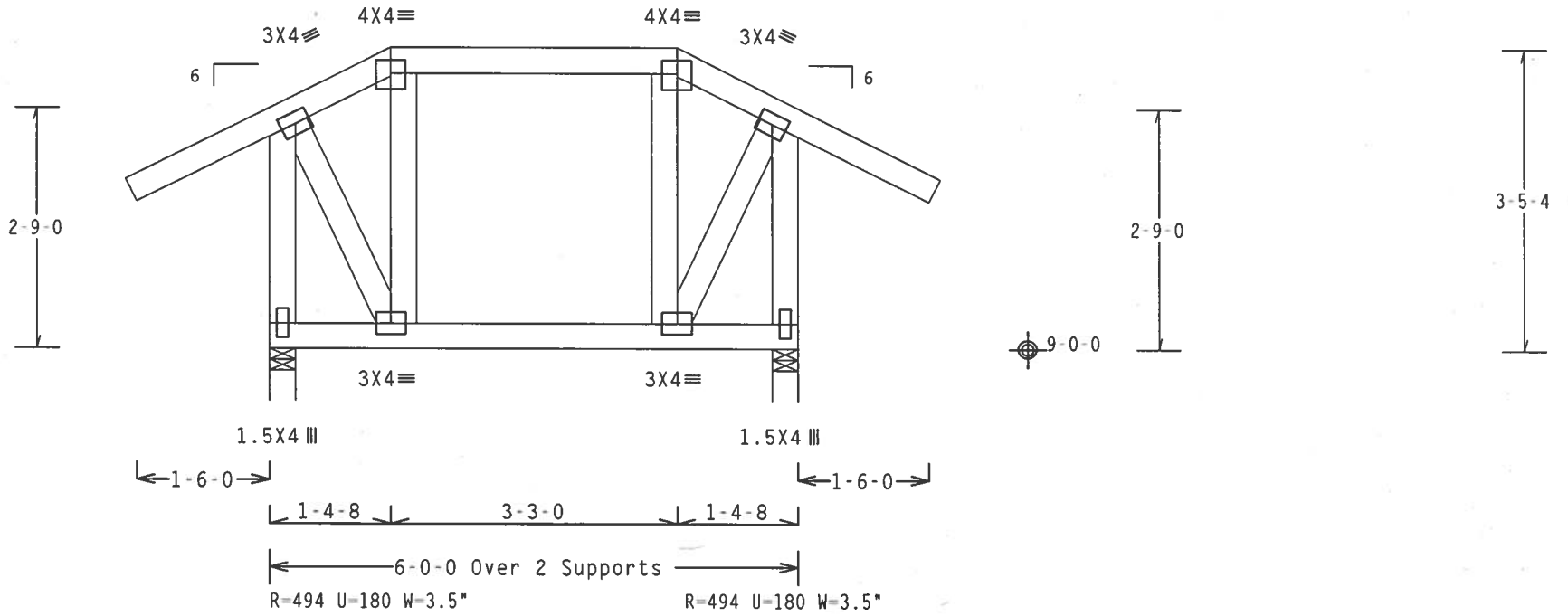
End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	7.57
BC	72	0.00	6.00



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS JR. LICENSED No. 52211 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46589
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226065
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119222
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

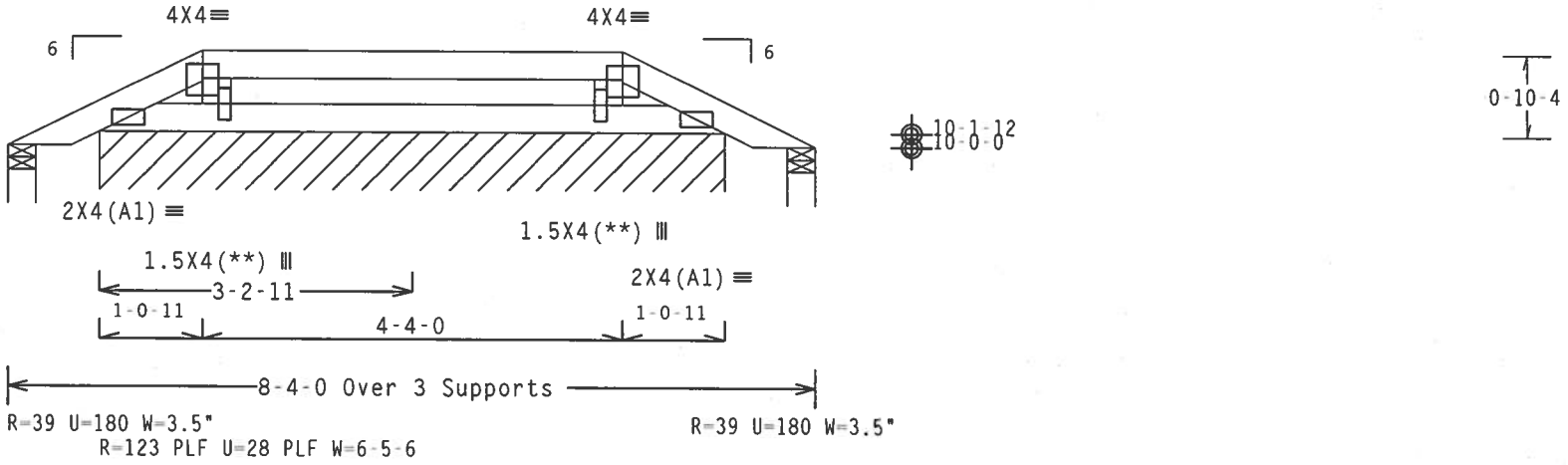
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.33	8.01
BC	74	1.09	7.24

Refer to DWG PIGBACKA0405 or PIGBACKB0405 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

(**) 2 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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230

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

Scale =.5"/Ft.

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 14 06

TC LL	30.0 PSF	REF R487-- 46590
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226055
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119594
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

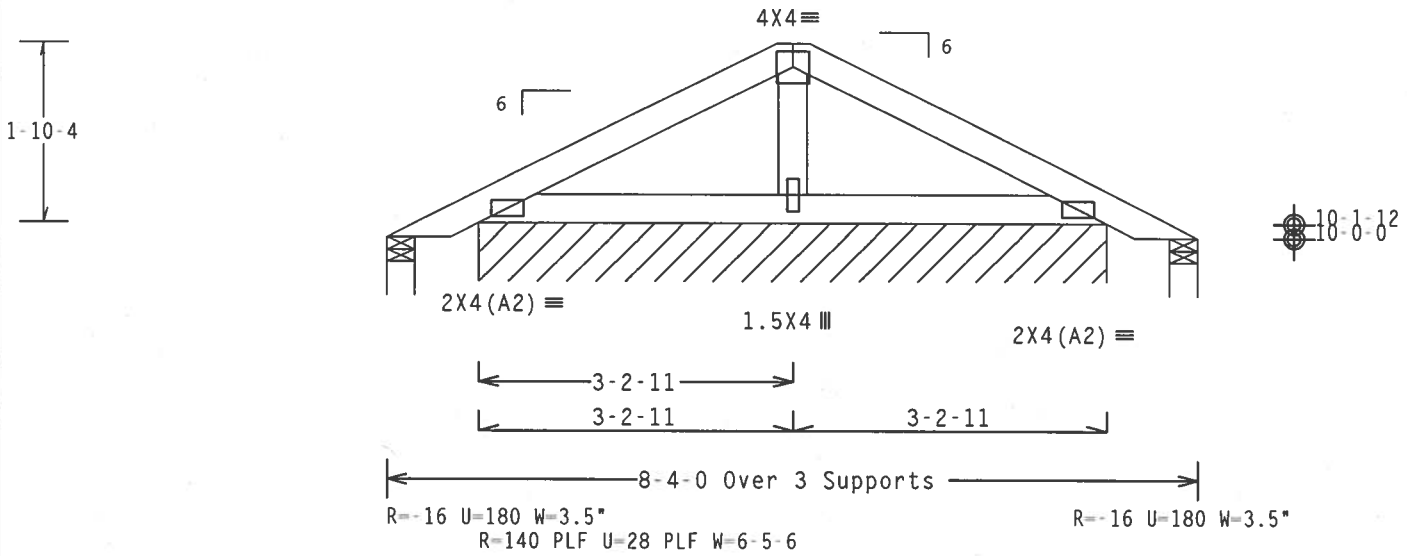
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.33	8.01
BC	74	1.09	7.24

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cg/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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JAMES F. COLLINS, P.E. LICENSE No. 52210 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1

TC LL	30.0 PSF	REF R487-- 46591
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226050
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119603
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.33	8.01
BC	74	1.09	7.24

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=7.5 psf, wind BC DL=5.0 psf.

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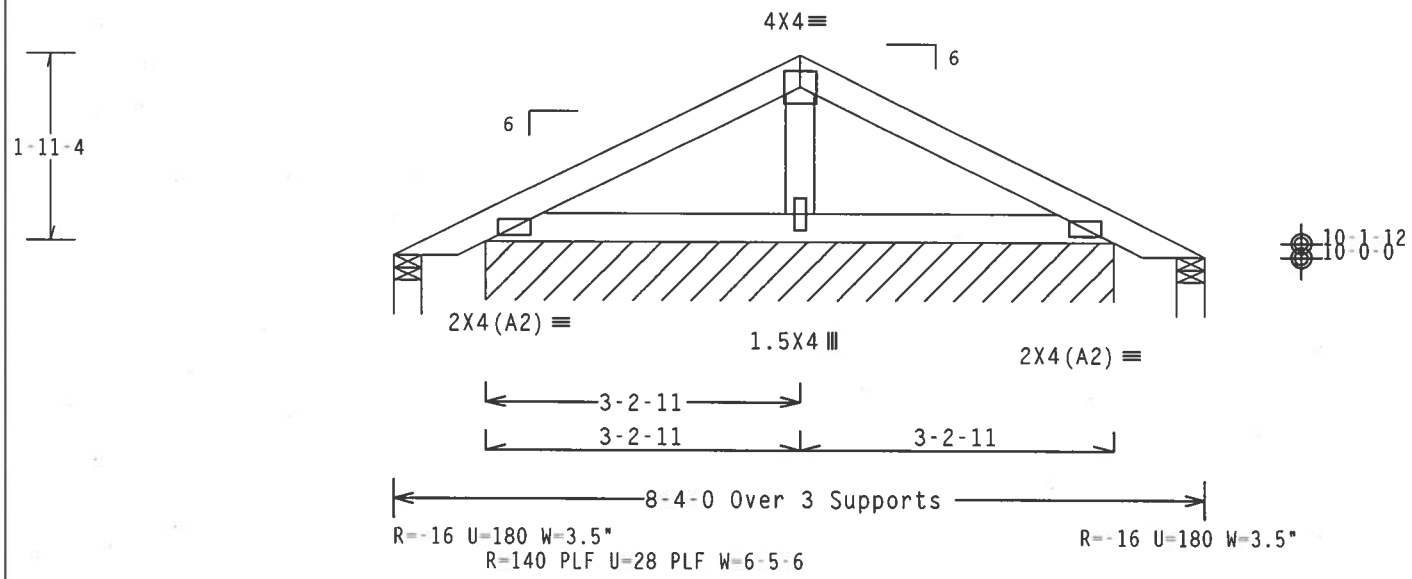

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLIANS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15, 06

TC LL	30.0 PSF	REF R487-- 46592
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226051
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119607
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

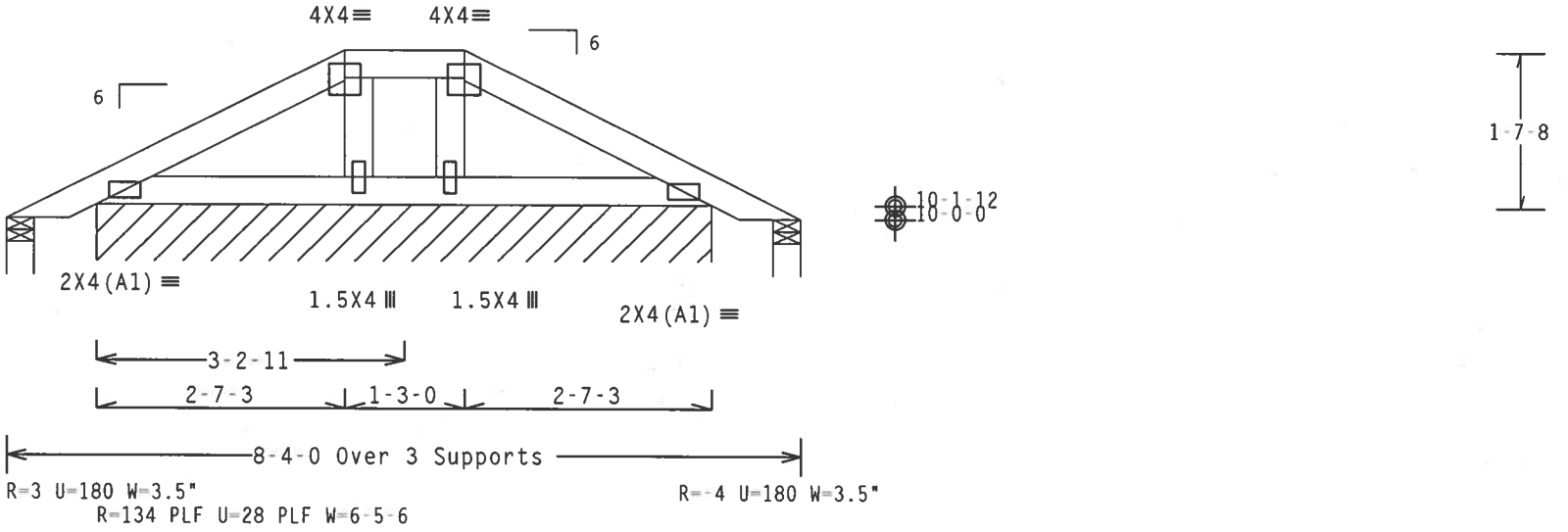
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.33	8.01
BC	74	1.09	7.24

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.1

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No.52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46593
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226053
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119617
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

End verticals not exposed to wind pressure.

#1 hip supports 5-0-0 jacks W/2 panel TC and no end vert.

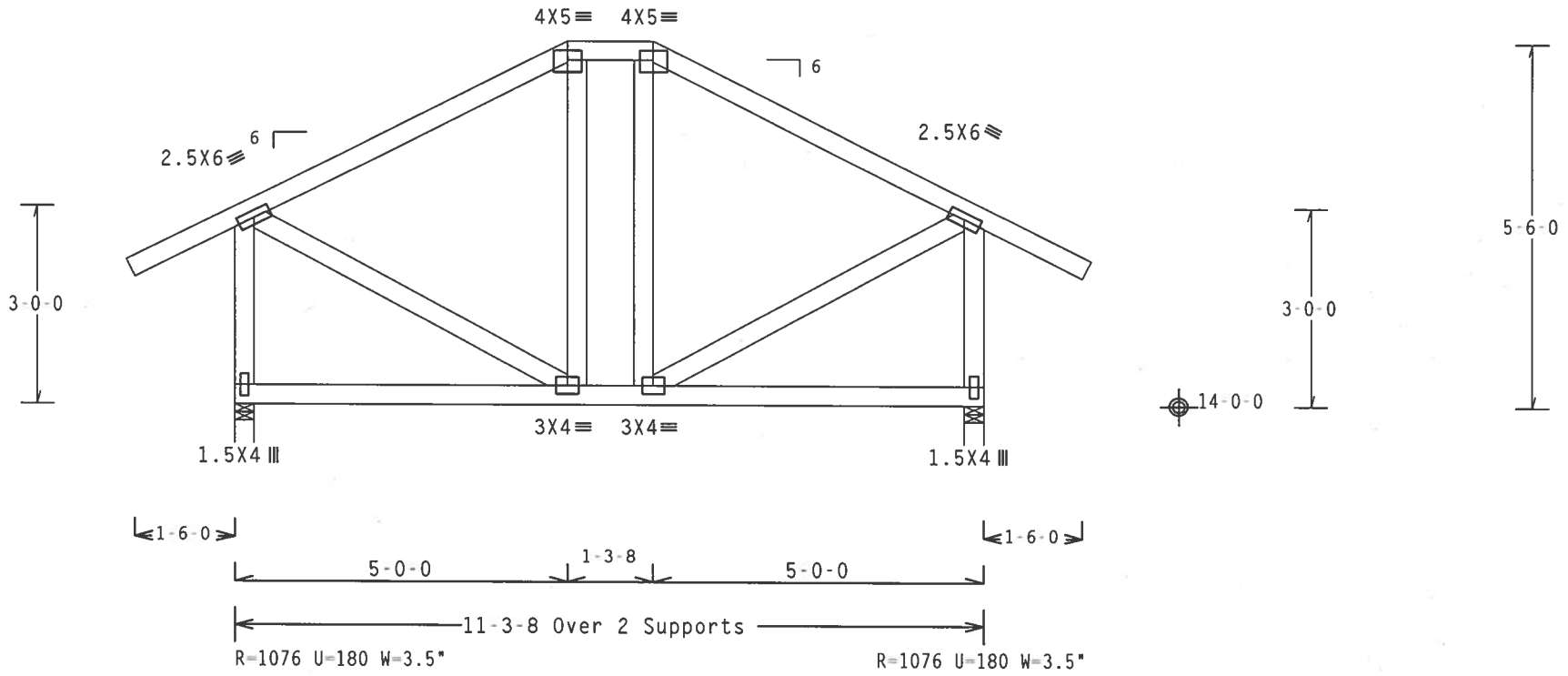
Left side jacks have 5-0-0 setback with 0-0-0 cant and 1-7-9 overhang. End jacks have 5-0-0 setback with 0-0-0 cant and 1-7-9 overhang. Right side jacks have 5-0-0 setback with 0-0-0 cant and 1-7-9 overhang.

110 mph wind, 17.84 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	1.57	12.86
BC	120	0.00	11.29

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

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

Scale =.375"/Ft.

ALPINE

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

TC LL	30.0 PSF	REF R487-- 46594
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226078
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119313
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - R2)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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

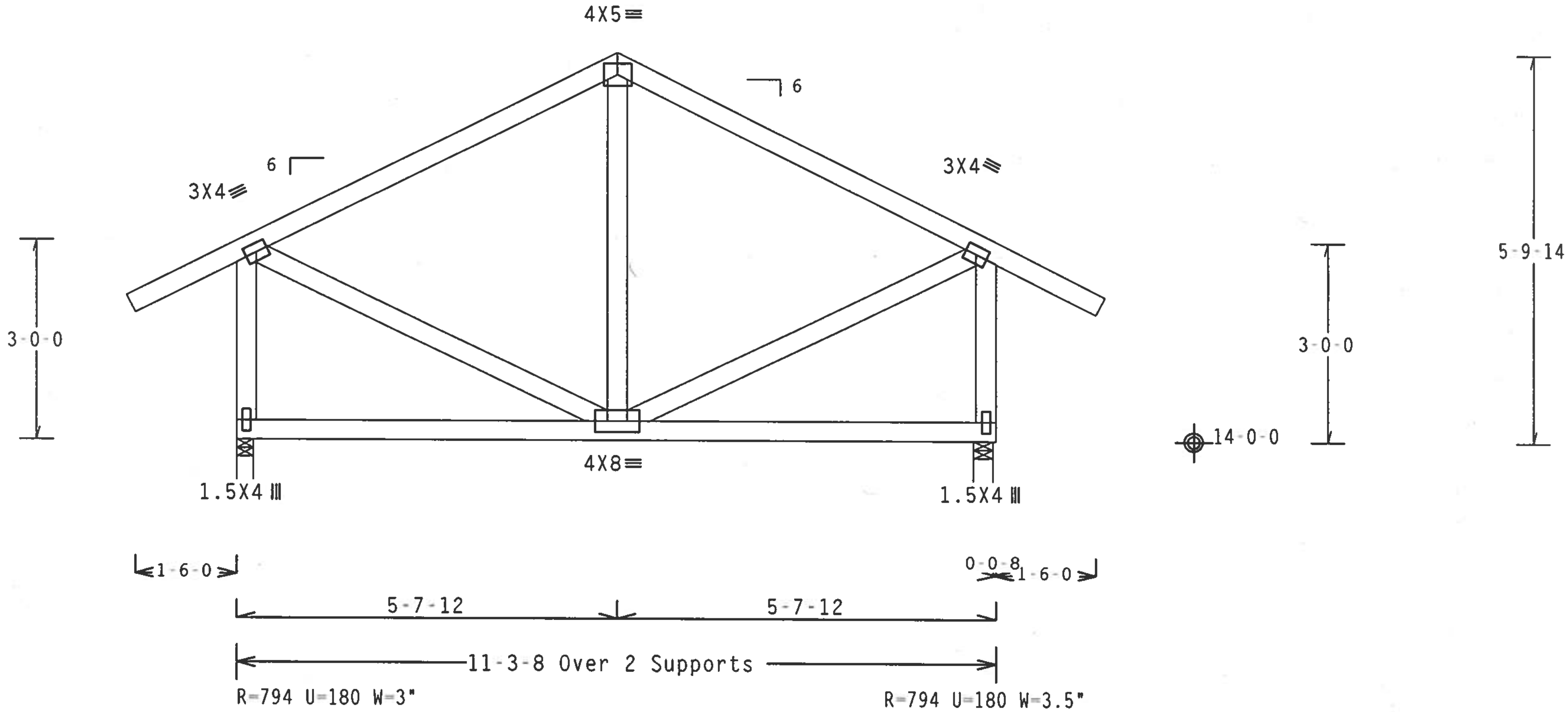
End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 18.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	12.86
BC	120	0.00	11.29



PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:3 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 1? 2006

TC LL	30.0 PSF	REF	R487 - 46595
TC DL	15.0 PSF	DATE	08/14/06
BC DL	10.0 PSF	DRW	HCUSR487 06226082
BC LL	0.0 PSF	HC-ENG	TCE/ADR
TOT.LD.	55.0 PSF	SEQN-	119319
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SZR487 Z03

Design Crit: TPI-2002(STD)/FBC

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2 2x6 SP #1 Dense:
Webs 2x4 SP #3 :W2, W10 2x4 SP #2 Dense:

SPECIAL LOADS
-------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 94 PLF at -1.63 to 94 PLF at 17.30
BC - From 4 PLF at -1.63 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 15.67
BC - From 4 PLF at 15.67 to 4 PLF at 17.30
PLB- 913 LB Conc. Load at (7.00,11.04)
PLB- 346 LB Conc. Load at (7.06,14.46)
PLB- 346 LB Conc. Load at (8.60,14.46)
PLB- 913 LB Conc. Load at (8.67,11.04)

Provide connection for concentrated load(s) shown.

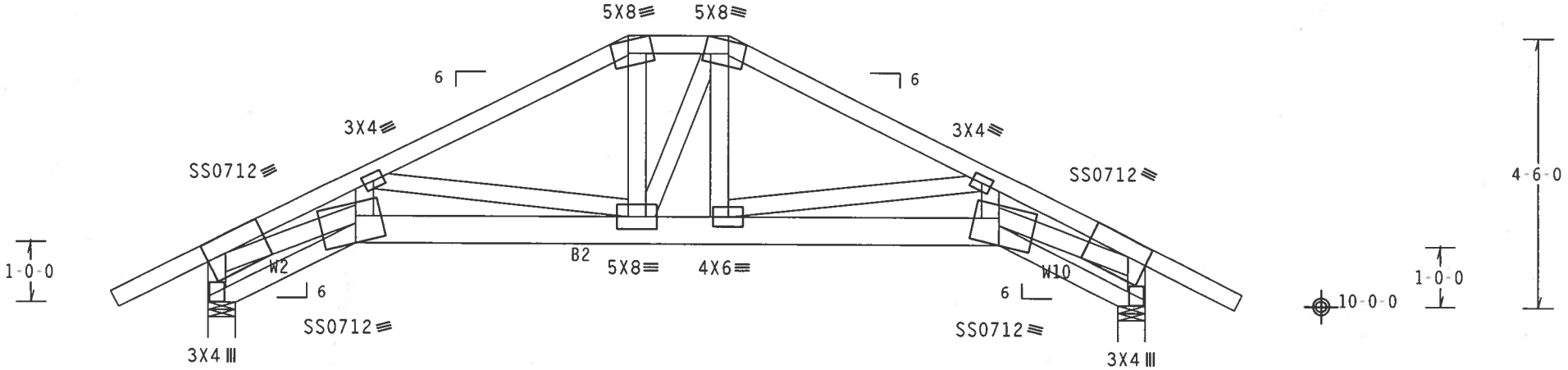
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

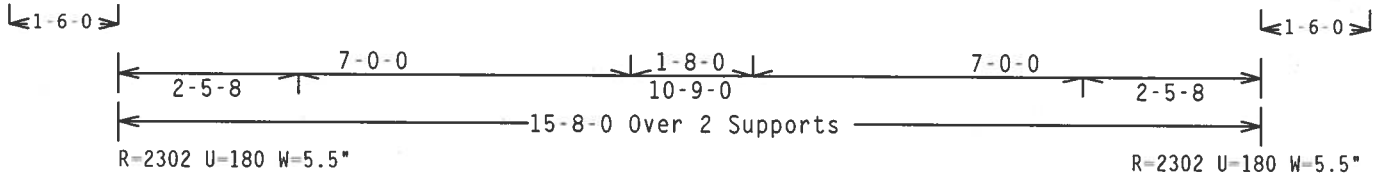
Calculated horizontal deflection is 0.14" due to live load and 0.17" due to dead load.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	17.23
BC	33	0.00	2.46
BC	120	2.46	13.21
BC	33	13.21	15.67

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. 18 Gauge HS,Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 17

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

Scale =.375"/Ft.

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

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 14

TC LL	30.0 PSF	REF	R487-- 46596
TC DL	15.0 PSF	DATE	08/14/06
BC DL	10.0 PSF	DRW	HCUSR487 06226031
BC LL	0.0 PSF	HC-ENG	TCE/ADR
TOT.LD.	55.0 PSF	SEQN-	80439 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SZR487 Z03

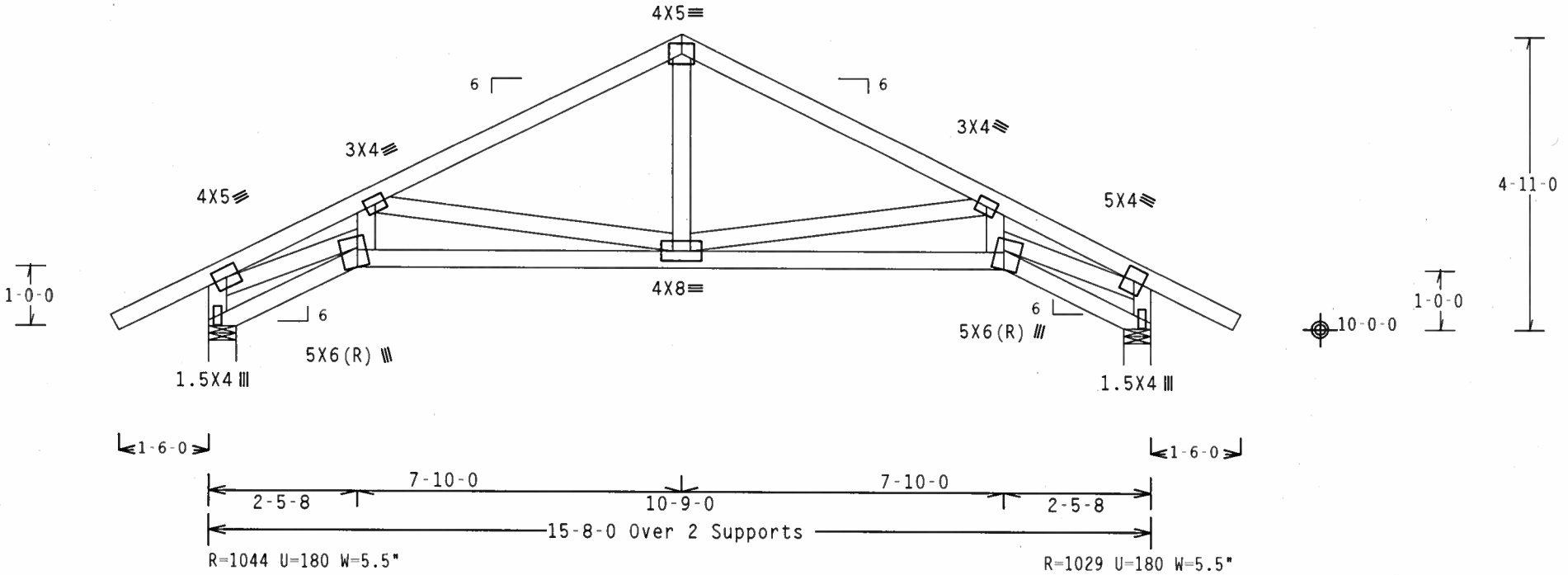
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	17.10
BC	32	0.00	2.46
BC	120	2.46	13.21
BC	32	13.21	15.67

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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JAMES F. COLLINS JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46597
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226077
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119507
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

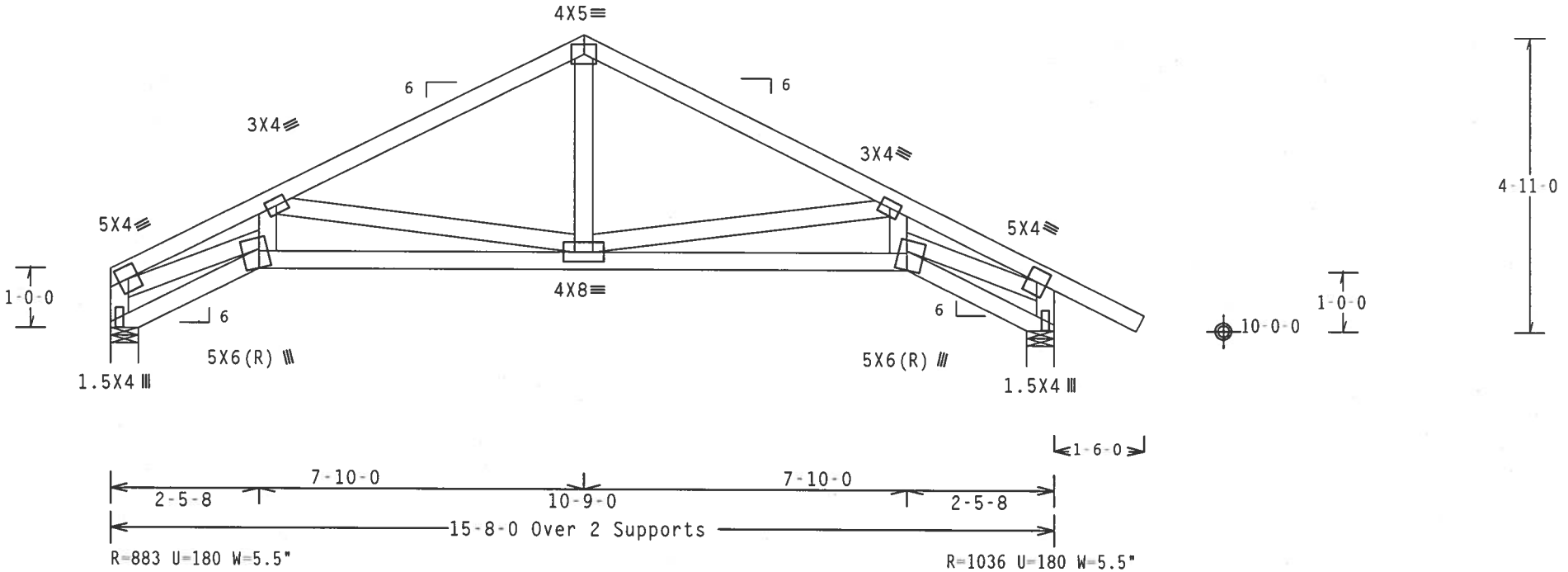
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	17.10
BC	32	0.00	2.46
BC	120	2.46	13.21
BC	32	13.21	15.67

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230.13 QTY:4 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46598
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226032
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119512
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

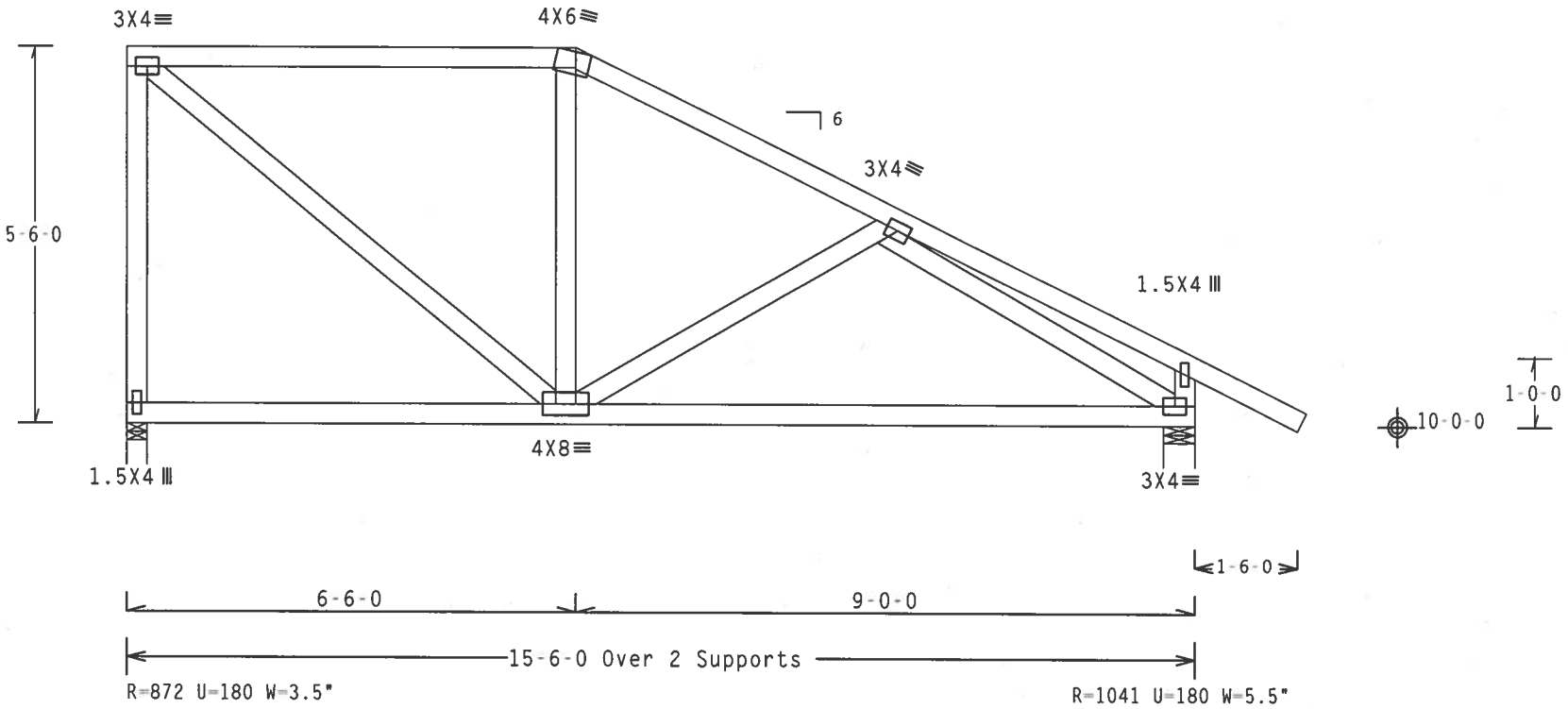
Left end vertical not exposed to wind pressure.

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

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=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	17.07
BC	120	0.00	15.50



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 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.

JAMES F. COLLINS JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46599
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226033
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119522
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

(6-277--Isaac Construction Buchs -- , ** - X1)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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=7.5 psf, wind BC DL=5.0 psf.

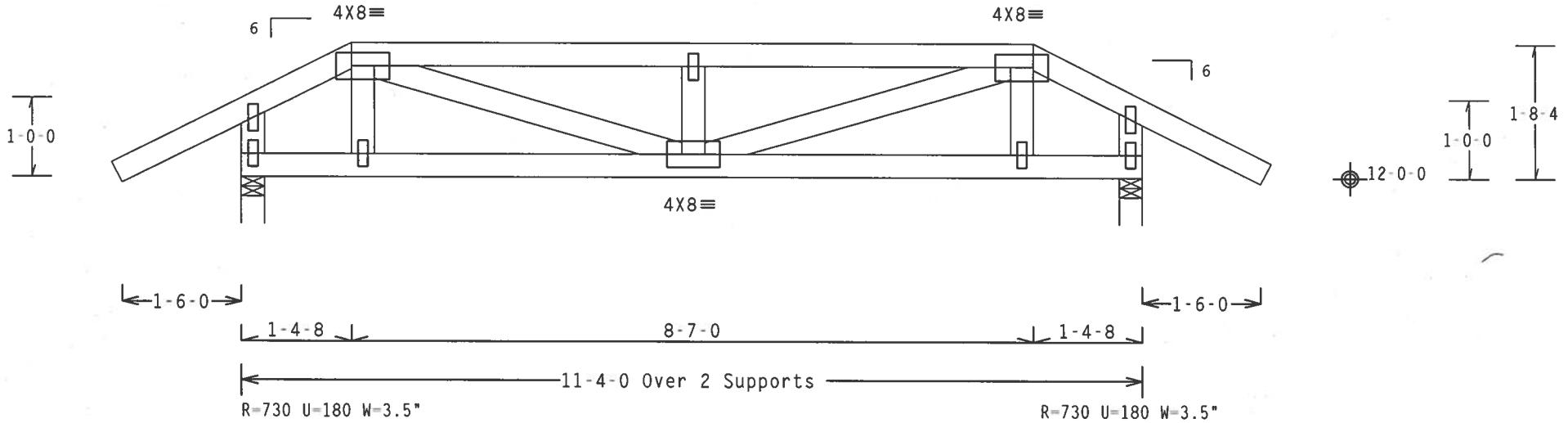
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	12.90
BC	120	0.00	11.33

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 94 PLF at 9.96 to 94 PLF at 12.96
BC - From 4 PLF at -1.63 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 11.33
BC - From 4 PLF at 11.33 to 4 PLF at 12.96
TC - -84 LB Conc. Load at 1.37, 9.96
TC - -51 LB Conc. Load at 3.44, 5.44, 5.90, 7.90
BC - -7 LB Conc. Load at 1.37, 9.96
BC - 42 LB Conc. Load at 1.44, 3.44, 5.44, 5.90, 7.90
9.90

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

Provide connection for concentrated load(s) shown.



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 [illegible] CAY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
[illegible]icate of [illegible]on # 567

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JAMES F. COLLINS JR. LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46600
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226023
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 119527
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	-1.57	14.90
BC	30	0.00	2.46
BC	26	2.46	4.39
BC	55	4.39	8.94
BC	26	8.94	10.88
BC	30	10.88	13.33

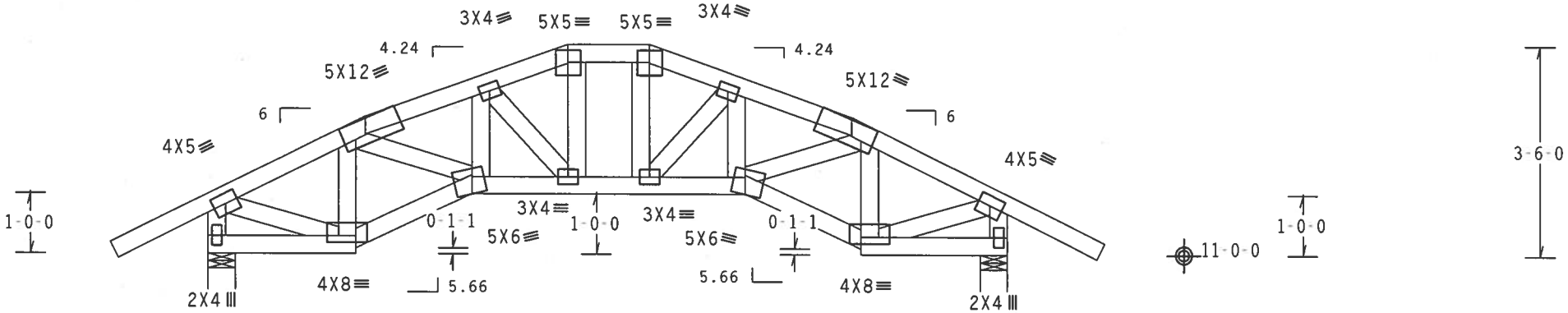
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC	- From	94 PLF	at	-1.63	to	94 PLF	at 2.62
TC	- From	92 PLF	at	2.62	to	92 PLF	at 5.99
TC	- From	92 PLF	at	5.99	to	92 PLF	at 10.72
TC	- From	94 PLF	at	10.72	to	94 PLF	at 14.96
BC	- From	4 PLF	at	-1.63	to	4 PLF	at 0.00
BC	- From	20 PLF	at	0.00	to	22 PLF	at 4.39
BC	- From	20 PLF	at	4.39	to	20 PLF	at 8.82
BC	- From	22 PLF	at	8.82	to	20 PLF	at 13.33
BC	- From	4 PLF	at	13.33	to	4 PLF	at 14.96

PLT- 68 LB Conc. Load at (2.62,13.26), (10.72,13.26)
PLT- 143 LB Conc. Load at (4.91,14.08), (8.33,14.11)
PLT- 193 LB Conc. Load at (5.99,14.46), (7.35,14.46)
PLT- 224 LB Conc. Load at (6.67,14.46)
PLB- 44 LB Conc. Load at (2.62,11.21), (10.72,11.21)
PLB- 78 LB Conc. Load at (4.91,12.04), (8.33,12.04)
PLB- 51 LB Conc. Load at (5.99,12.04), (7.35,12.04)
PLB- 41 LB Conc. Load at (6.67,12.04)

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cg/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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

JAMES F. COLLINS, JR. LICENSE No. 52272 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 06

TC LL	30.0 PSF	REF R487-- 46601
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226002
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11221
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

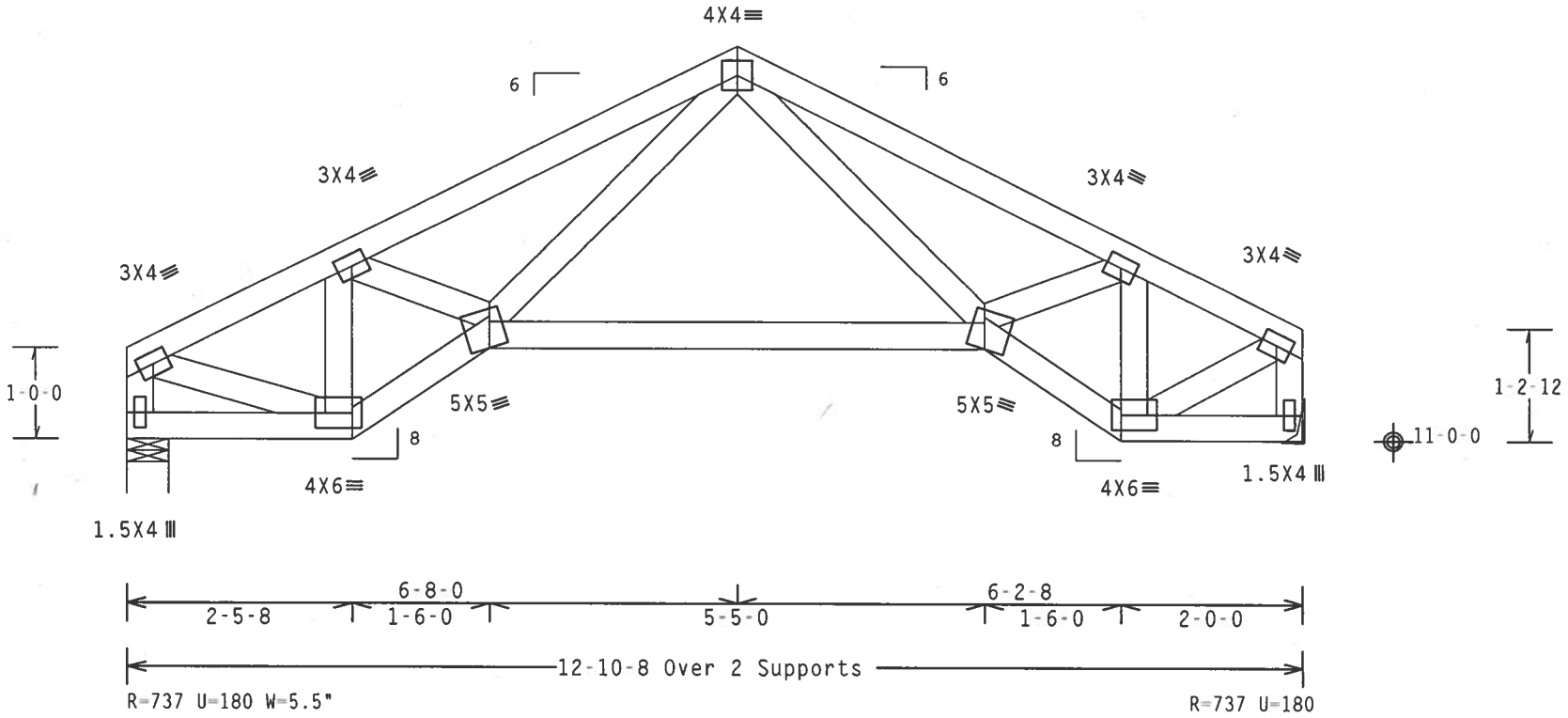
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	12.88
BC	30	0.00	2.46
BC	22	2.46	3.96
BC	65	3.96	9.38
BC	22	9.38	10.88
BC	24	10.88	12.88

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:3 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug

TC LL	30.0 PSF	REF R487-- 46602
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226086
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11227
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

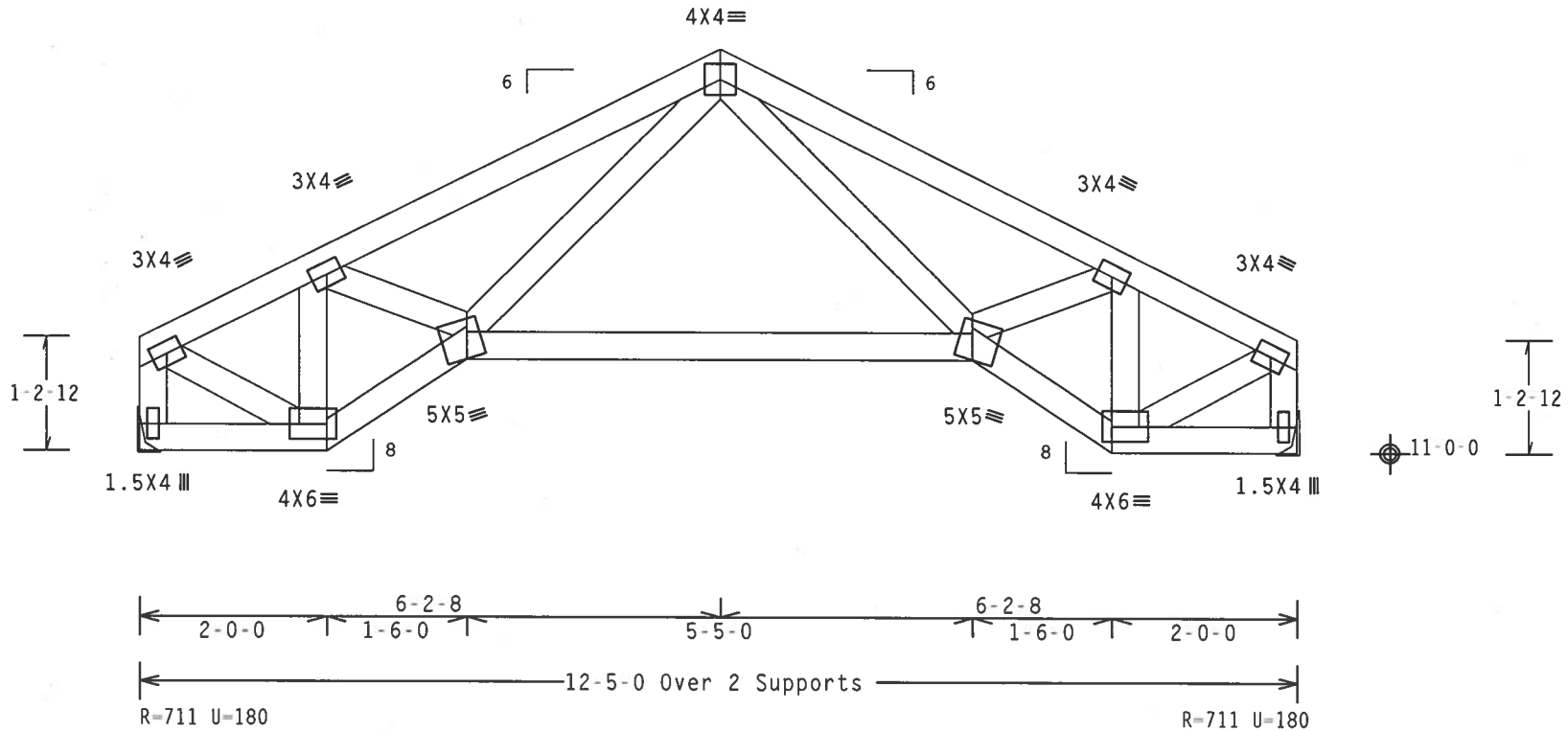
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.46	12.88
BC	24	0.46	2.46
BC	22	2.46	3.96
BC	65	3.96	9.38
BC	22	9.38	10.88
BC	24	10.88	12.88

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=7.5 psf, wind BC DL=5.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cg/RT=1.00(1.25)/10(0) 7.24.1230.0 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug 15 '06

TC LL	30.0 PSF	REF R487-- 46603
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226087
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11237
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487 Z03

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

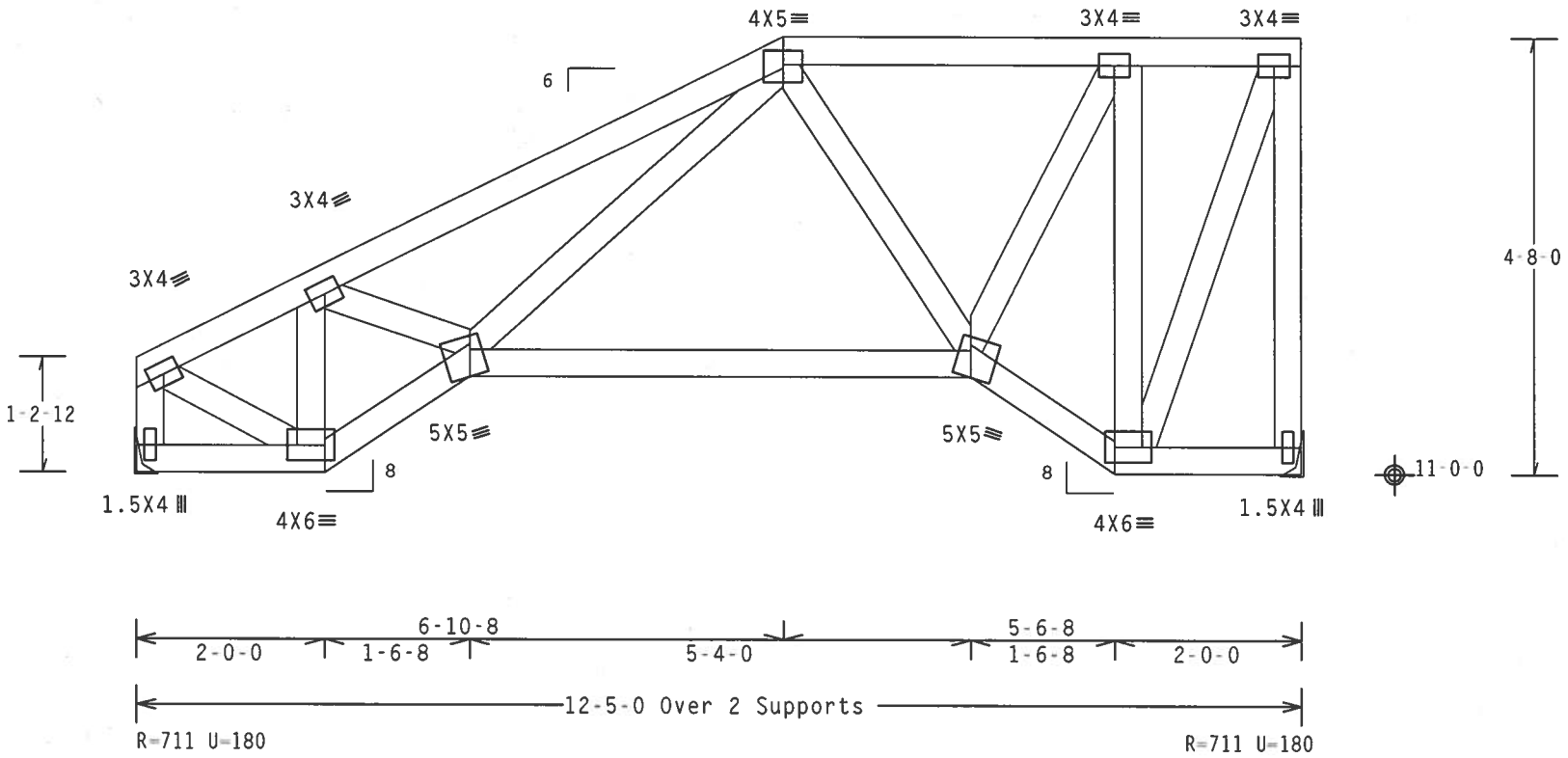
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	12.42
BC	24	0.00	2.00
BC	22	2.00	3.54
BC	64	3.54	8.88
BC	22	8.88	10.42
BC	24	10.42	12.42

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=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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JAMES F. COLLINS, JR. LICENSE No. 62212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46604
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226088
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11244
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

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

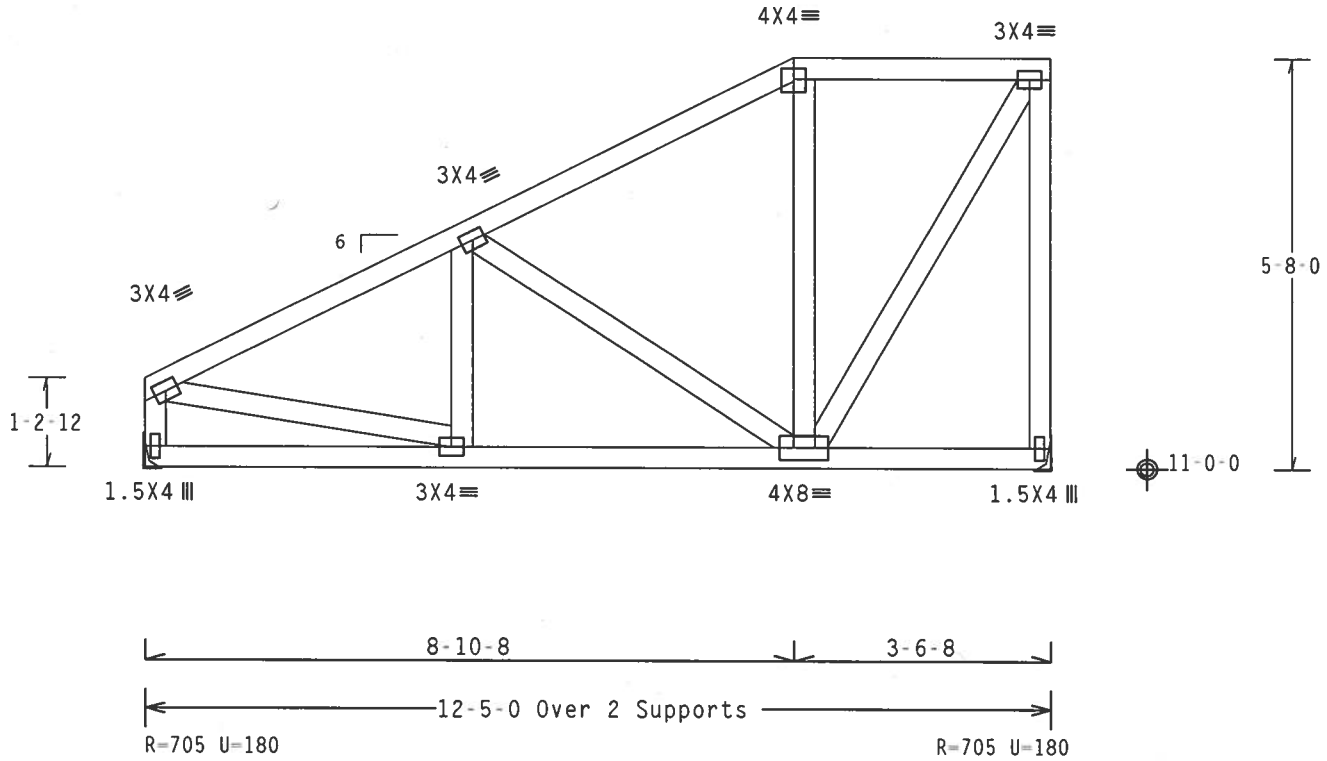
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	12.42
BC	120	0.00	12.42

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=7.5 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.1230 1

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

Scale =.375"/Ft.

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

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 15 06

TC LL	30.0 PSF	REF R487-- 46605
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226089
BC LL	0.0 PSF	HC-ENG TCE/ADR
TOT.LD.	55.0 PSF	SEQN- 11253
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=7.5 psf, wind BC DL=5.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

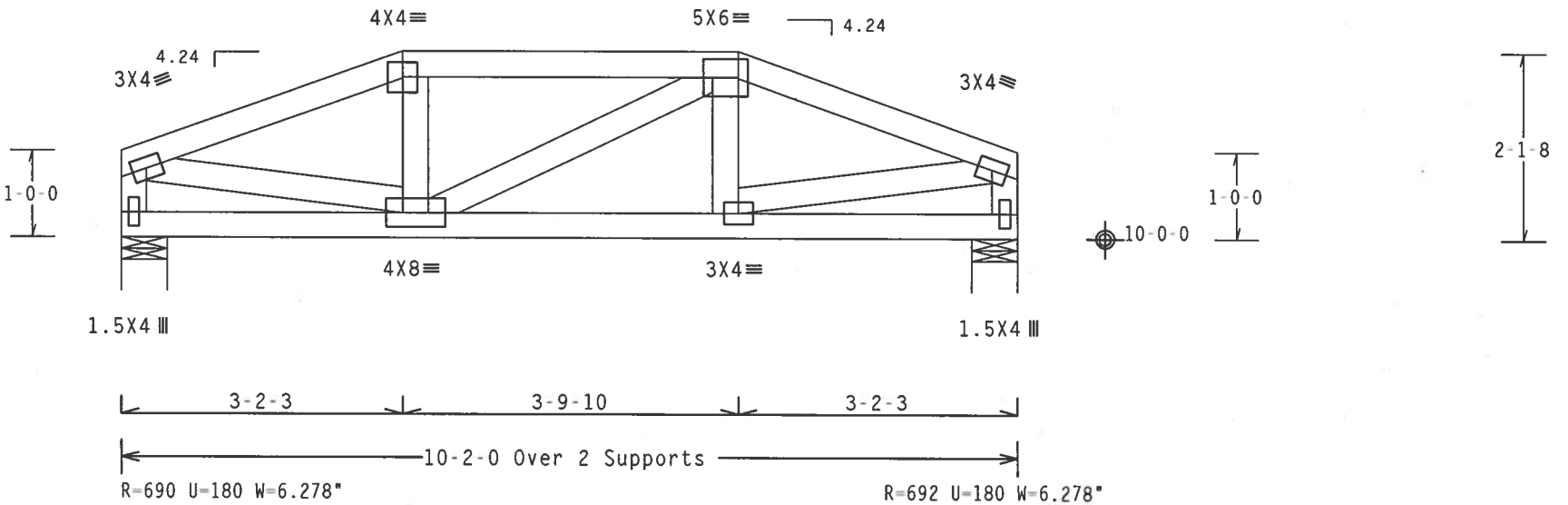
CHORD	SPACING(IN OC)	START(FT)	END(FT)
TC	24	0.00	10.17
BC	120	0.00	10.17

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

TC -	From	92 PLF at	0.00 to	92 PLF at	10.17	
BC -	From	20 PLF at	0.00 to	20 PLF at	10.17	
TC -		5 LB Conc. Load at	3.18,	6.98		
TC -		34 LB Conc. Load at	3.24,	5.24,	6.87	
BC -		56 LB Conc. Load at	3.24			
BC -		40 LB Conc. Load at	5.24,	6.87		
BC -		15 LB Conc. Load at	6.98			

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

Provide connection for concentrated load(s) shown.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS LICENSE JR No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Aug

TC LL	30.0 PSF	REF R487-- 46606
TC DL	15.0 PSF	DATE 08/14/06
BC DL	10.0 PSF	DRW HCUSR487 06226075
BC LL	0.0 PSF	HC-ENG JB/ADR
TOT.LD.	55.0 PSF	SEQN- 119440
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SZR487_Z03

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

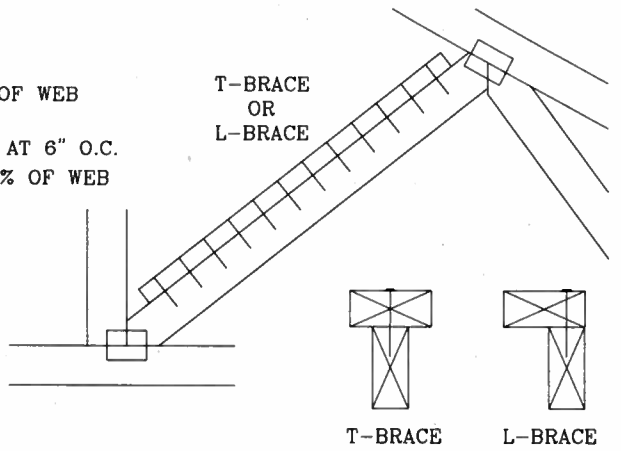
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

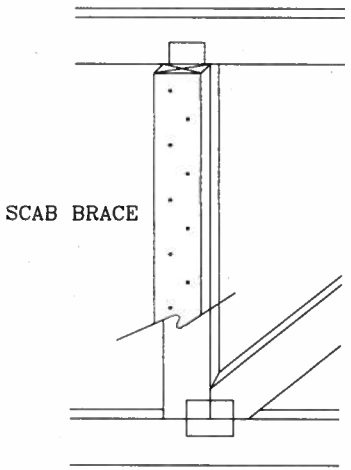
T-BRACING OR L-BRACING:

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



SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579,640

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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JAMES E. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
AUG 1 '06

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

PIGGYBACK DETAIL

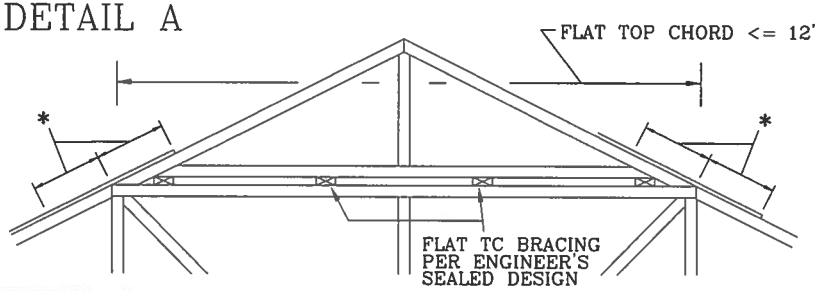
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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.

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATLY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

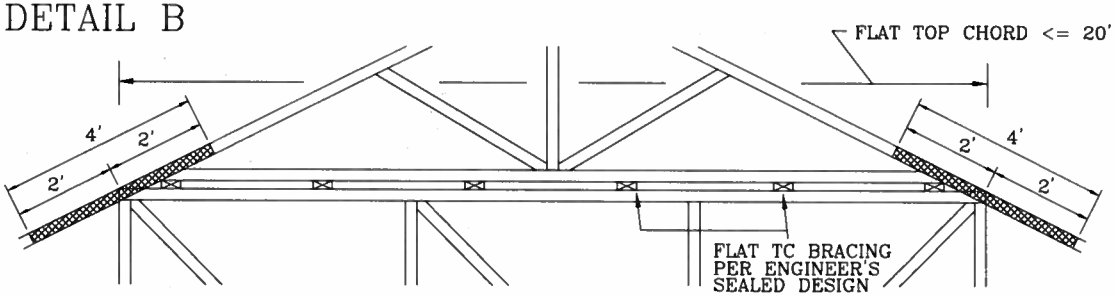
DETAIL A



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.

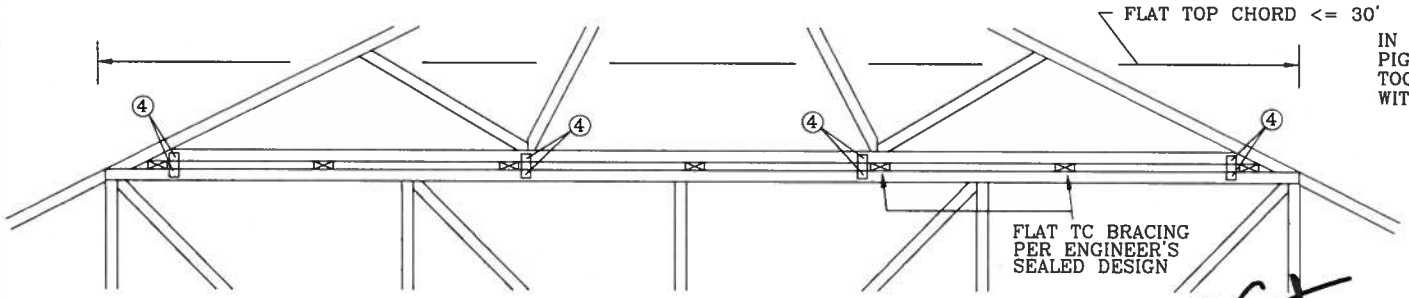
DETAIL B



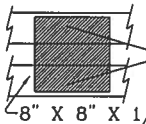
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"X3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

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.



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.
POMPANO BEACH, FLORIDA

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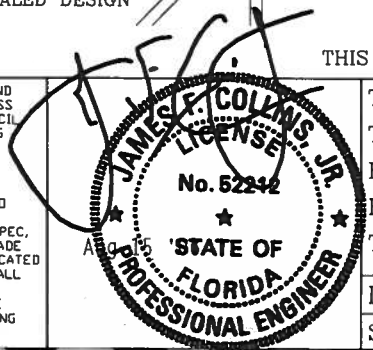


TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	04/14/05
BC DL	PSF	DRWG	PIGBACKA0405
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

PIGGYBACK DETAIL

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

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.

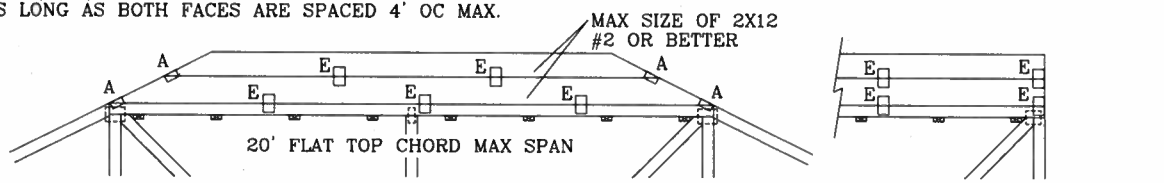
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

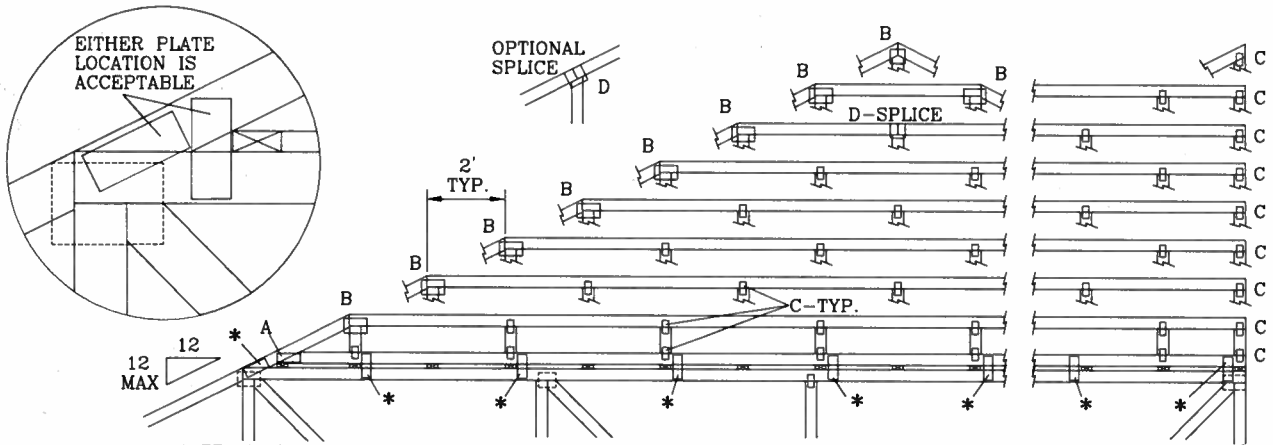
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

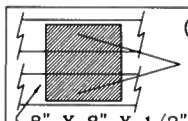
130 MPH WIND, 30' MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.





*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.



(4) 6d BOX (0.099"X 2.",MIN) NAILS.

8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 6d BOX (0.099"X 2.",MIN) NAILS PER GUSSET.

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

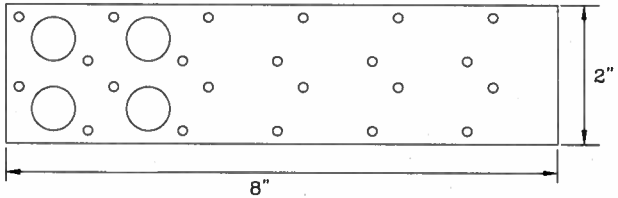
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "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.

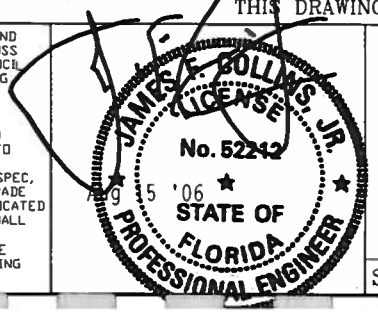
* PIGGYBACK SPECIAL PLATE

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



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA



MAX LOADING	
55 PSF AT 1.33 DUR. FAC.	
50 PSF AT 1.25 DUR. FAC.	
47 PSF AT 1.15 DUR. FAC.	
SPACING	24.0"

REF	PIGGYBACK
DATE	04/14/05
DRWG	PIGBACKB0405
-ENG	DLJ/KAR