DATE 03/18/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026860

APPLICANT WADE WILLIS PHONE 623-3331

ADDRESS P BOX 1546 LAKE CITY FL 32056

OWNER MICHAEL & STEPHANIE FOREMAN PHONE 961-9962

ADDRESS 322 NW COUNTRY LAKE DR LAKE CITY FL 32056

CONTRACTOR WADE WILLIS PHONE 623-3331

LOCATION OF PROPERTY 90 W, R LAKE JEFFEREY, L SCENIC LAE DR, R COUNTRY LAKE GLN, LOR ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 244050.00

HEATED FLOOR AREA 3263.00 TOTAL AREA 4881.00 HEIGHT 27.60 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

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

NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO.

PARCEL ID 22-3S-16-02268-142 SUBDIVISION COUNTRY LAKES @ WOODBOROUGH

LOT 42 BLOCK PHASE 2 UNIT TOTAL ACRES 1.51

000001575 CCB1252491

Culvert Permit No. | Culvert Waiver | Contractor's License Number | Applicant/Owner/Contractor

CULVERT 08-0212 BK JH N

Driveway Connection | Septic Tank Number | LU & Zoning checked by | Approved for Issuance | New Resident

COMMENTS: MINIMUM FLOOR ELEVATION SET @ 143.0 FT, NEED ELEVATION CONFIRMATION

NOC ON FILE

Check # or Cash 2036

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power ____ date/app. by | Foundation ____ date/app. by | Monolithic (footer/Slab) ____ 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 $ 1225.00 CERTIFICATION FEE $ 24.41 SURCHARGE FEE $ 24.41

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** 1373.82

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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Columbia County Building Permit Application

For Office Use Only Application # 0803-28 Date Received 3/11/08 By LH Permit # 1575/26860
Zoning Official BLK Date 7.03.08 Flood Zone X per plat FEMA Map # N/A Zoning RSF-2
Land Use RES. Low Dev Elevation N/A MFE 143.0 ft River N/A Plans Examiner OK JTH Date 3-14-08
Comments
☑ NOC ☑ EH ✓ Deed or PA ✓ Site Plan N/A State Road Info □ Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter of Authorization from Contractor
□ Unincorporated area □ Incorporated area □ Town of Fort White □ Town of Fort White Compliance letter

Septic Permit No. 08-0212 Fax 386-961-9963

Name Authorized Person Signing Permit Wade Willis Phone 623-3331

Address PO Box 1546 Lake City FL 32056

Owners Name Michael and Stephanie Forman Phone

911 Address 322 NW County Lake Dr LC FL 32055

Contractors Name Wade Willis Phone 386-961-9962

Address PO Box 1546 Lake City FL 32056

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address

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

Property ID Number 22-3S-16-02268-142 Estimated Cost of Construction $290,000.00

Subdivision Name County Lakes at Woodborough Lot 42 Block Unit Phase 2

Driving Directions Highway 90 west, TR on Lake Jeffery Road, TL on Scenic Lake Drive, TR on County Lake Glen, Lot on Right

Number of Existing Dwellings on Property 0

Construction of SFD Total Acreage 1.51 Lot Size 1.51

Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive Total Building Height 27.6

Actual Distance of Structure from Property Lines - Front ~~105~~ Side ~~52~~ Side ~~64~~ Rear ~~175~~

Number of Stories 1 Heated Floor Area 3263 Total Floor Area 4881 Roof Pitch 8/12 12/12

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.

Spoke to Wade Willis 3-17-08 LH

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001575

DATE 03/18/2008 PARCEL ID # 22-3S-16-02268-142

APPLICANT WADE WILLIS PHONE 63-3331

ADDRESS PO BOX 1546 LAKE CITY FL 32056

OWNER MICHAEL & STEPHANIE FOREMAN PHONE

ADDRESS 322 NW COUNTY LAKE DR LAKE CITY FL 32055

CONTRACTOR WADE WILLIS PHONE 386-961-9962

LOCATION OF PROPERTY 90 W, R LAKE JEFFEREY RD, L SSCENIC LAKE DR, R COUNTRY LAKE GLN,

LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY LAKES @ WOOD 42 2

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 ·

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 22-3S-16-02268-142

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT**.

1. Description of property *(legal description)*: Lot 42 County Lakes at Woodborough Phase 2
   a) Street *(job)* Address: 322 NW Country Lakes Glen 32055
2. General description of improvements: _____
3. Owner Information
   a) Name and address: Michael C. Foreman PO Box 2582 Lake City FL 32056
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: Wade Willis PO Box 1546 Lake City FL 32056
   b) Telephone No.: 623-3331 Fax No. (Opt.) 961-9963
5. Surety Information
   a) Name and address
   b) Amount of Bond: _____
   c) Telephone No.: _____
6. Lender
   a) Name and address: _____
   b) Phone No. _____

Inst:200812005364 Date:3/18/2008 Time:3:42 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
   a) Name and address: _____
   b) Telephone No. _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Michael C. Foreman
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 18th day of March, 20 08, by: Michael Foreman as _____ **(type of authority, e.g. officer, trustee, attorney fact) for** _____ **(name of party on behalf of whom instrument was executed).**

Personally Known ✓ OR Produced Identification ____ Type _____

Notary Signature Jennifer L Beatrice Notary Stamp or Seal:

NOTARY PUBLIC STATE OF FLORIDA
JENNIFER L. BEATRICE
MY COMMISSION # DD 713801
EXPIRES: October 18, 2011
Bonded Thru Budget Notary Services

—AND—

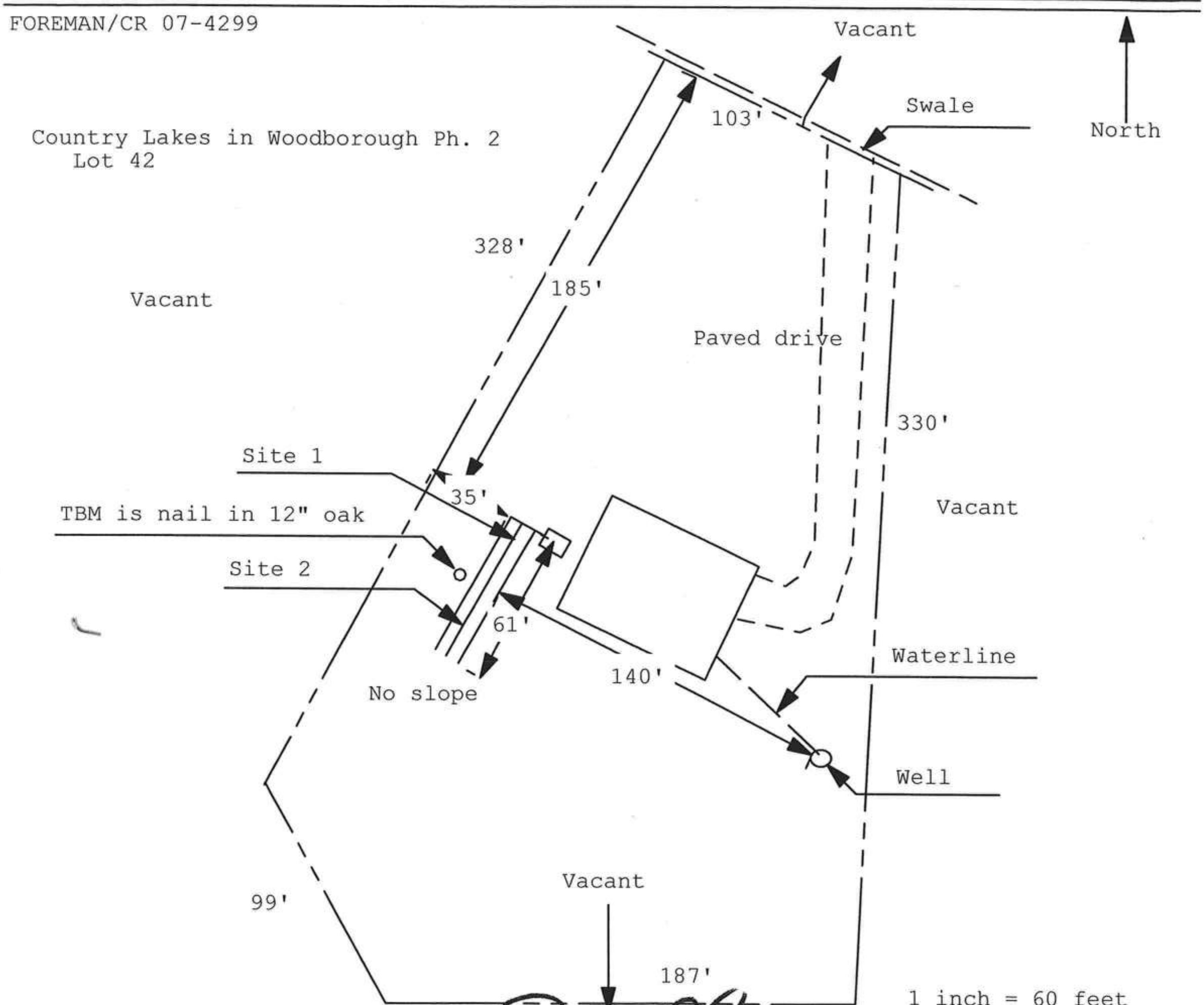
11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Signature of Natural Person Signing (in line #10 above.)

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

Permit Application Number: 08-0212

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd **Date** 2/21/08

Plan Approved ✓ **Not Approved** ____ **Date** 3/10/08

By [signature] ____ Columbia **CPHU**

Notes: ____

26860

Donald F. Lee & Associates, Inc.

Surveyors & Engineers

140 NW Ridgewood Avenue
Lake City, Florida 32055
(386) 755-6166
Fax (386) 755-6167
donald@dfla.com

Wednesday, April 02, 2008

FROM: Tim Delbene, P.L.S.

TO: Columbia County Building & Zoning Dept.

CC: Wade Willis Construction

RE: Floor Elevation Check – Lot 42 – Country Lake at Woodborough Phase 2

We have obtained elevations on the floor (stemwall) of a foundation under construction on the above referenced Lot. The elevations are based on Local Benchmark Datum. The results are as follows:

Finished Floor Elevation: 144.14'

The minimum required floor elevation for this Lot is 143.0', as shown on the record subdivision plat of Country Lake at Woodborough Phase 2 .

SIGNED: _____
Timothy A. Delbene, P.L.S.
Florida Reg. Cert. No. 5594

DATE: 4/2/2008.

Prepared by and return to:
Joel Fletcher Foreman
Attorney at Law
Foreman & Olvera, P.A.
492 W. Duval Street
Lake City, FL 32055
386-752-8420
File Number: 161003

Inst:200812002486 Date:2/7/2008 Time:4:18 PM
Doc Stamp-Deed:455.00
DC,P.DeWitt Cason,Columbia County Page 1 of 2

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this 6th day of February, 2008 between MS, DM & BL, LLC, a Florida Limited Liability Company whose post office address is 3101 W. US HWY 90, Suite 101, Lake City, FL 32055, grantor, and Michael C. Foreman and Stephanie W. Foreman, husband and wife whose post office address is PO Box 2589, Lake City, FL 32056-0558, 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 AND NO/100 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 42, Country Lake in Woodborough, Phase 2, according to the Plat thereof, recorded in Plat Book 9, Pages 57-58, of the Public Records of Columbia County, Florida.

Parcel Identification Number:

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 the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2007.

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:

Witness Name: Stephanie W. Foreman

Witness Name: Michael C. Foreman

MS, DM & BL, LLC, a Florida Limited Liability Company

By: Deborah S. Myles
Deborah S. Myles, Member-Manager

(Corporate Seal)

DoubleTimes

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 5th day of February, 2008 by Deborah S. Myles, Member-Manager of MS, DM & BL, LLC, a Florida Limited Liability Company, on behalf of the corporation. She [ ] is personally known to me or [X] has produced a driver's license as identification.

[Notary Seal]

Notary Public

Printed Name: Jennifer L Beatrice

My Commission Expires:

COLUMBIA COUNTY 9-1-1 ADDRESSING / GIS DEPARTMENT

P. O. Box 1787, Lake City, FL 32056-1787
Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com

ADDRESS ASSIGNMENT DATA

The Columbia County Board of County Commissioners has passed Ordinance 2001-9, which provides for a uniform numbering system. A copy of this ordinance is available in the Clerk of Court records, located in the courthouse. This new numbering system will increase the efficiency of POLICE, FIRE AND EMERGENCY MEDICAL vehicles responding to calls within Columbia County by immediately identifying the location of the caller.

Residential or Other Structure on Parcel Number:
22-3S-16-02267-142 (LOT 42 COUNTRY LAKE IN WOODBOROUGH, PH 2)

Address Assignments:
322 NW COUNTRY LAKE DR, LAKE CITY, FL, 32055

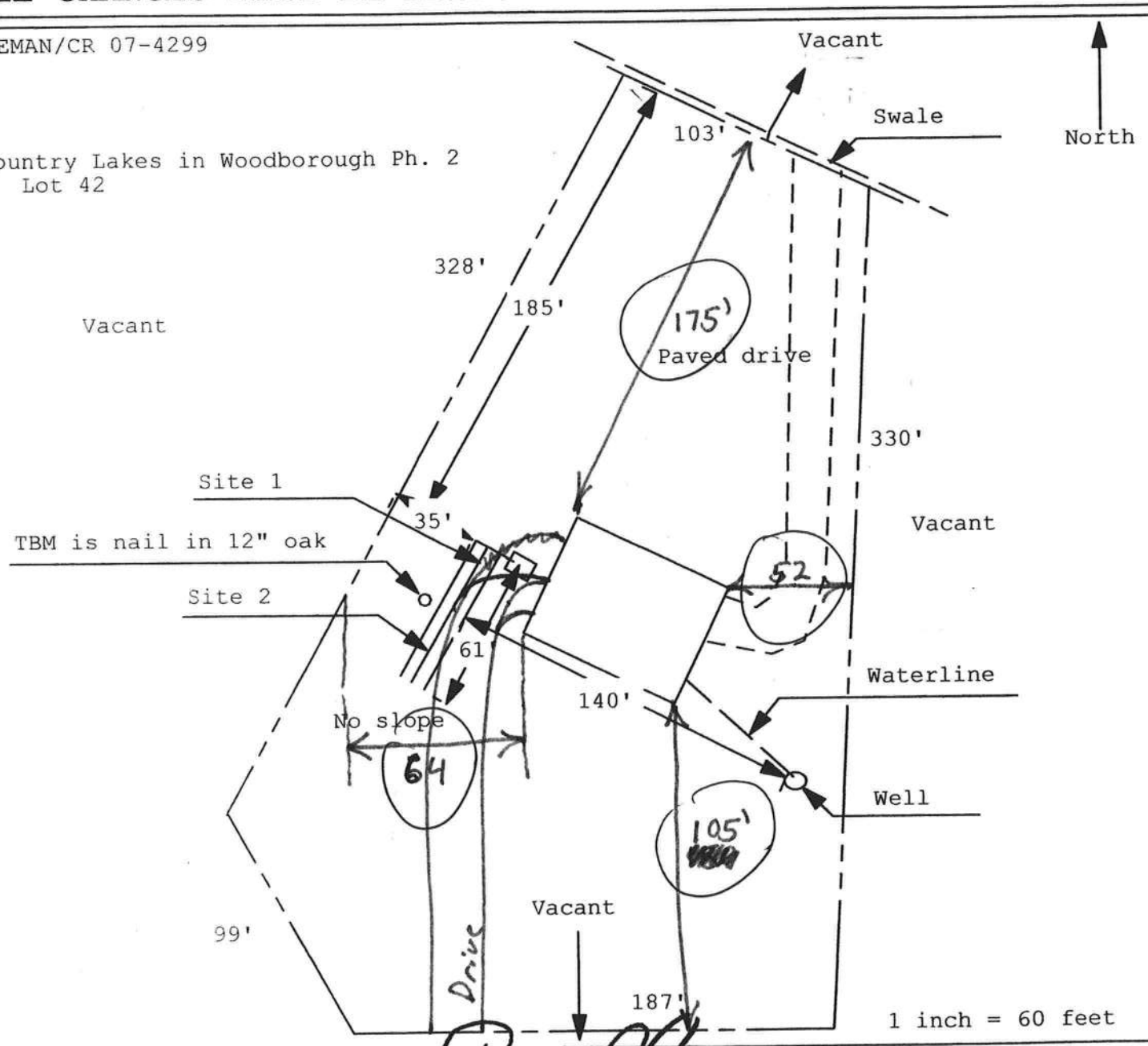
Any questions concerning this information should be referred to the Columbia County 9-1-1 Addressing / GIS Department at the address or telephone number above.

Site Plan

,lication for Onsite Sewage Disposal System
,nstruction Permit. Part II Site Plan
,ermit Application Number: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

FOREMAN/CR 07-4299



Site Plan Submitted By Paul Lloyd Date 2/21/08

Plan Approved_____ Not Approved_____ Date_____

By_____ _____CPHU

Notes: _____

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1554
FAX (904) 755-7022
LAKE CITY, FLORIDA 32055
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

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	801044WadeWillisConstruction	Builder:	Wade Willis
Address:	Lot: 42, Sub: Woodborough, Plat:	Permitting Office:	Columbia Co.
City, State:	Lake City, FL	Permit Number:	26820
Owner:	Foreman, Michael & Stephanie Residence	Jurisdiction Number:	221000
Climate Zone:	North		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	3732 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 484.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 484.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 280.0(p) ft	
b.	Raised Wood, Adjacent	R=19.0, 469.0ft²	
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1484.0 ft²	
b.	Frame, Wood, Adjacent	R=13.0, 241.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 4072.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 270.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 64.0 kBtu/hr	
		SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 64.0 kBtu/hr	
		HSPF: 7.90	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons	
		EF: 0.93	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.13

Total as-built points: 39884

Total base points: 46311

PASS

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

PREPARED BY: [signature]

DATE: 3-10-06

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

OWNER/AGENT: _____

DATE: _____

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: 42, Sub: Woodborough, Plat: , Lake City, FL,** 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	3732.0	20.04	13462.1	Double, Clear	N	1.5	7.0	12.0	19.20	0.96	220.0	
				Double, Clear	N	1.5	7.0	16.0	19.20	0.96	293.4	
				Double, Clear	NE	8.0	8.0	20.0	29.56	0.59	346.0	
				Double, Clear	N	10.0	9.7	80.0	19.20	0.71	1083.6	
				Double, Clear	W	99.0	8.0	20.0	38.52	0.37	288.6	
				Double, Clear	N	1.5	9.0	54.0	19.20	0.98	1011.6	
				Double, Clear	W	1.5	5.0	12.0	38.52	0.88	404.7	
				Double, Clear	E	1.5	5.0	32.0	42.06	0.87	1177.2	
				Double, Clear	S	1.5	7.0	12.0	35.87	0.89	385.0	
				Double, Clear	S	1.5	10.0	96.0	35.87	0.96	3306.0	
				Double, Clear	S	6.0	12.0	24.0	35.87	0.66	568.0	
				Double, Clear	S	6.0	9.0	10.0	35.87	0.59	211.7	
				Double, Clear	S	6.0	3.5	18.0	35.87	0.46	296.4	
				Double, Clear	S	1.5	0.0	24.0	35.87	0.43	371.8	
				Double, Clear	S	1.5	2.5	9.0	35.87	0.61	198.0	
				Double, Clear	W	1.5	5.5	30.0	38.52	0.90	1036.6	
				Double, Clear	N	1.5	0.0	15.0	19.20	0.59	170.8	
				As-Built Total:				**484.0**			**11369.3**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	241.0	0.70	168.7	Frame, Wood, Exterior	13.0	1484.0	1.50	2226.0
Exterior	1484.0	1.70	2522.8	Frame, Wood, Adjacent	13.0	241.0	0.60	144.6
Base Total:	**1725.0**		**2691.5**	**As-Built Total:**		**1725.0**		**2370.6**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	50.0	4.10	205.0
Exterior	50.0	4.10	205.0	Adjacent Insulated	20.0	1.60	32.0
Base Total:	**70.0**		**237.0**	**As-Built Total:**	**70.0**		**237.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	3732.0	1.73	6456.4	Under Attic	30.0	4072.0	1.73 X 1.00	7044.6
Base Total:	**3732.0**		**6456.4**	**As-Built Total:**		**4072.0**		**7044.6**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 42, Sub: Woodborough, Plat: , Lake City, FL,** PERMIT #:

BASE					AS-BUILT					
FLOOR TYPES	Area X	BSPM	=	Points	Type	R-Value	Area X	SPM	=	Points
Slab	280.0(p)	-37.0		-10360.0	Slab-On-Grade Edge Insulation	0.0	280.0(p	-41.20		-11536.0
Raised	469.0	-3.99		-1871.3	Raised Wood, Adjacent	19.0	469.0	0.40		187.6
Base Total:				**-12231.3**	**As-Built Total:**		**749.0**			**-11348.4**
INFILTRATION	Area X	BSPM	=	Points			Area X	SPM	=	Points
	3732.0	10.21		38103.7			3732.0	10.21		38103.7
Summer Base Points: 48719.3					**Summer As-Built Points:**					**47776.7**
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 64000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
					47777	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	14270.6
48719.3	**0.4266**		**20783.7**		**47776.7**	**1.00**	**1.138**	**0.263**	**1.000**	**14270.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 42, Sub: Woodborough, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	3732.0	12.74	8558.2	Double, Clear	N	1.5	7.0	12.0	24.58	1.00	295.4	
				Double, Clear	N	1.5	7.0	16.0	24.58	1.00	393.8	
				Double, Clear	NE	8.0	8.0	20.0	23.57	1.04	492.2	
				Double, Clear	N	10.0	9.7	80.0	24.58	1.02	2003.0	
				Double, Clear	W	99.0	8.0	20.0	20.73	1.24	513.1	
				Double, Clear	N	1.5	9.0	54.0	24.58	1.00	1327.8	
				Double, Clear	W	1.5	5.0	12.0	20.73	1.03	257.4	
				Double, Clear	E	1.5	5.0	32.0	18.79	1.05	631.4	
				Double, Clear	S	1.5	7.0	12.0	13.30	1.07	171.4	
				Double, Clear	S	1.5	10.0	96.0	13.30	1.01	1292.7	
				Double, Clear	S	6.0	12.0	24.0	13.30	1.64	523.2	
				Double, Clear	S	6.0	9.0	10.0	13.30	2.06	274.5	
				Double, Clear	S	6.0	3.5	18.0	13.30	3.44	822.7	
				Double, Clear	S	1.5	0.0	24.0	13.30	3.66	1168.1	
				Double, Clear	S	1.5	2.5	9.0	13.30	1.90	226.9	
				Double, Clear	W	1.5	5.5	30.0	20.73	1.03	639.3	
				Double, Clear	N	1.5	0.0	15.0	24.58	1.03	378.7	
				As-Built Total:				**484.0**			**11411.6**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	241.0	3.60	867.6	Frame, Wood, Exterior	13.0	1484.0	3.40	5045.6
Exterior	1484.0	3.70	5490.8	Frame, Wood, Adjacent	13.0	241.0	3.30	795.3
Base Total:	**1725.0**		**6358.4**	**As-Built Total:**		**1725.0**		**5840.9**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	50.0	8.40	420.0
Exterior	50.0	8.40	420.0	Adjacent Insulated	20.0	8.00	160.0
Base Total:	**70.0**		**580.0**	**As-Built Total:**	**70.0**		**580.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	3732.0	2.05	7650.6	Under Attic	30.0	4072.0	2.05 X 1.00	8347.6
Base Total:	**3732.0**		**7650.6**	**As-Built Total:**		**4072.0**		**8347.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 42, Sub: Woodborough, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	280.0(p)	8.9	2492.0	Slab-On-Grade Edge Insulation	0.0	280.0(p	18.80		5264.0
Raised	469.0	0.96	450.2	Raised Wood, Adjacent	19.0	469.0	2.20		1031.8
Base Total:			**2942.2**	**As-Built Total:**		**749.0**			**6295.8**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	3732.0	-0.59	-2201.9			3732.0	-0.59		-2201.9
Winter Base Points:			**23887.6**	**Winter As-Built Points:**					**30274.0**
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 64000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				30274.0	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	15187.0
23887.6	**0.6274**	**14987.1**		**30274.0**	**1.00**	**1.162**	**0.432**	**1.000**	**15187.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 42, Sub: Woodborough, Plat: , Lake City, FL,** 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		40.0	0.93	4	1.00	2606.67	1.00	10426.7	
				As-Built Total:						**10426.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
20784	**14987**	**10540**	**46311**	**14271**	**15187**	**10427**	**39884**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 42, Sub: Woodborough, Plat: , Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked 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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.0

The higher the score, the more efficient the home.

Foreman, Michael & Stephanie Residence, Lot: 42, Sub: Woodborough, Plat: , Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 64.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4		b. N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	3732 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.	(Dble Default) 484.0 ft²		a. Electric Heat Pump	Cap: 64.0 kBtu/hr
	b. SHGC:				HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 484.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 280.0(p) ft		c. N/A	
	b. Raised Wood, Adjacent	R=19.0, 469.0ft²			
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1484.0 ft²			EF: 0.93
	b. Frame, Wood, Adjacent	R=13.0, 241.0 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, 4072.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 270.0 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.

Residential System Sizing Calculation

Summary

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

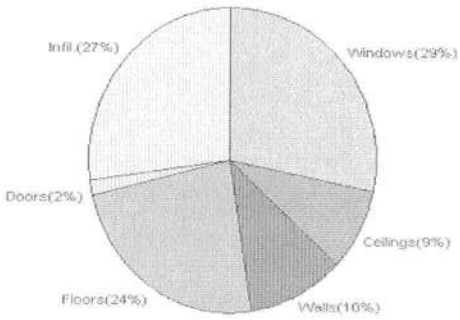
3/10/2008

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	**54658**	**Btuh**	**Total cooling load calculation**	**42948**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.1	64000	Sensible (SHR = 0.75)	139.0	48000
Heat Pump + Auxiliary(0.0kW)	117.1	64000	Latent	190.0	16000
			Total (Electric Heat Pump)	149.0	64000

WINTER CALCULATIONS

Winter Heating Load (for 3732 sqft)

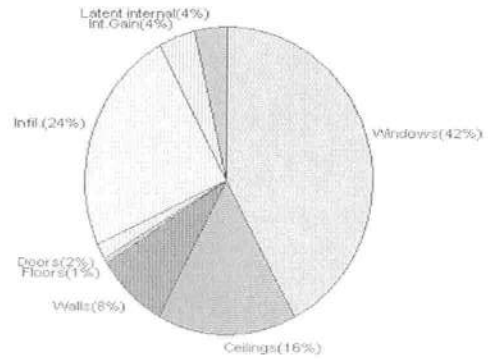
Load component			Load	
Window total	484	sqft	15580	Btuh
Wall total	1725	sqft	5665	Btuh
Door total	70	sqft	907	Btuh
Ceiling total	4072	sqft	4798	Btuh
Floor total	See detail report		13095	Btuh
Infiltration	361	cfm	14613	Btuh
Duct loss			0	Btuh
Subtotal			**54658**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**54658**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3732 sqft)

Load component			Load	
Window total	484	sqft	18045	Btuh
Wall total	1725	sqft	3459	Btuh
Door total	70	sqft	686	Btuh
Ceiling total	4072	sqft	6743	Btuh
Floor total			282	Btuh
Infiltration	187	cfm	3473	Btuh
Internal gain			1840	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**34529**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			6819	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**8419**	**Btuh**
TOTAL HEAT GAIN			**42948**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 3-10-08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

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

3/10/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	12.0	32.2	386 Btuh
2	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
3	2, Clear, Metal, 0.87	NE	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	N	80.0	32.2	2575 Btuh
5	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	N	54.0	32.2	1738 Btuh
7	2, Clear, Metal, 0.87	W	12.0	32.2	386 Btuh
8	2, Clear, Metal, 0.87	E	32.0	32.2	1030 Btuh
9	2, Clear, Metal, 0.87	S	12.0	32.2	386 Btuh
10	2, Clear, Metal, 0.87	S	96.0	32.2	3090 Btuh
11	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
12	2, Clear, Metal, 0.87	S	10.0	32.2	322 Btuh
13	2, Clear, Metal, 0.87	S	18.0	32.2	579 Btuh
14	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
15	2, Clear, Metal, 0.87	S	9.0	32.2	290 Btuh
16	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
17	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
	Window Total		484(sqft)		15580 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1484	3.3	4874 Btuh
2	Frame - Wood - Adj(0.09)	13.0	241	3.3	791 Btuh
	Wall Total		1725		5665 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		50	12.9	648 Btuh
	Door Total		70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	4072	1.2	4798 Btuh
	Ceiling Total		4072		4798Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Adj	19	469.0 sqft	1.9	870 Btuh
2	Slab On Grade	0	280.0 ft(p)	43.7	12225 Btuh
	Floor Total		749		13095 Btuh
			Zone Envelope Subtotal:		40045 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.58	37320	360.8	14613 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**54658 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

3/10/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	54658 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	54658 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

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

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

3/10/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	12.0	32.2	386 Btuh
2	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
3	2, Clear, Metal, 0.87	NE	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	N	80.0	32.2	2575 Btuh
5	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	N	54.0	32.2	1738 Btuh
7	2, Clear, Metal, 0.87	W	12.0	32.2	386 Btuh
8	2, Clear, Metal, 0.87	E	32.0	32.2	1030 Btuh
9	2, Clear, Metal, 0.87	S	12.0	32.2	386 Btuh
10	2, Clear, Metal, 0.87	S	96.0	32.2	3090 Btuh
11	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
12	2, Clear, Metal, 0.87	S	10.0	32.2	322 Btuh
13	2, Clear, Metal, 0.87	S	18.0	32.2	579 Btuh
14	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
15	2, Clear, Metal, 0.87	S	9.0	32.2	290 Btuh
16	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
17	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
	Window Total		484(sqft)		15580 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1484	3.3	4874 Btuh
2	Frame - Wood - Adj(0.09)	13.0	241	3.3	791 Btuh
	Wall Total		1725		5665 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		50	12.9	648 Btuh
	Door Total		70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	4072	1.2	4798 Btuh
	Ceiling Total		4072		4798Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Adj	19	469.0 sqft	1.9	870 Btuh
2	Slab On Grade	0	280.0 ft(p)	43.7	12225 Btuh
	Floor Total		749		13095 Btuh
			Zone Envelope Subtotal:		40045 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.58	37320	360.8	14613 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**54658 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

3/10/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	54658 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	54658 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

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 3/10/2008

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	2, Clear, 0.87, None,N,N	N	1.5ft	7ft.	12.0	0.0	12.0	29	29	348 Btuh
2	2, Clear, 0.87, None,N,N	N	1.5ft	7ft.	16.0	0.0	16.0	29	29	463 Btuh
3	2, Clear, 0.87, None,N,N	NE	8ft.	8ft.	20.0	0.0	20.0	29	60	1201 Btuh
4	2, Clear, 0.87, None,N,N	N	10ft.	9.66	80.0	0.0	80.0	29	29	2317 Btuh
5	2, Clear, 0.87, None,N,N	W	99ft.	8ft.	20.0	20.0	0.0	29	80	579 Btuh
6	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	54.0	0.0	54.0	29	29	1564 Btuh
7	2, Clear, 0.87, None,N,N	W	1.5ft	5ft.	12.0	0.7	11.3	29	80	917 Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	5ft.	32.0	2.0	30.0	29	80	2445 Btuh
9	2, Clear, 0.87, None,N,N	S	1.5ft	7ft.	12.0	12.0	0.0	29	34	348 Btuh
10	2, Clear, 0.87, None,N,N	S	1.5ft	10ft.	96.0	90.1	5.9	29	34	2808 Btuh
11	2, Clear, 0.87, None,N,N	S	6ft.	12ft.	24.0	24.0	0.0	29	34	695 Btuh
12	2, Clear, 0.87, None,N,N	S	6ft.	9ft.	10.0	10.0	0.0	29	34	290 Btuh
13	2, Clear, 0.87, None,N,N	S	6ft.	3.5ft	18.0	18.0	0.0	29	34	521 Btuh
14	2, Clear, 0.87, None,N,N	S	1.5ft	0ft.	24.0	24.0	0.0	29	34	695 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft	2.5ft	9.0	9.0	0.0	29	34	261 Btuh
16	2, Clear, 0.87, None,N,N	W	1.5ft	5.5ft	30.0	4.5	25.5	29	80	2160 Btuh
17	2, Clear, 0.87, None,N,N	N	1.5ft	0ft.	15.0	0.0	15.0	29	29	434 Btuh
	Window Total				484 (sqft)					18045 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1484.0	2.1	3095 Btuh
2	Frame - Wood - Adj	13.0/0.09	241.0	1.5	364 Btuh
	Wall Total		1725 (sqft)		3459 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	50.0	9.8	490 Btuh
	Door Total	70 (sqft)		686 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	4072.0	1.7	6743 Btuh
	Ceiling Total		4072 (sqft)		6743 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Adj	19.0	469 (sqft)	0.6	282 Btuh
2	Slab On Grade	0.0	280 (ft(p))	0.0	0 Btuh
	Floor Total		749.0 (sqft)		282 Btuh

			Zone Envelope Subtotal:	29216 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.30	37320	186.6	3473 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	0	1840 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**34529 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

3/10/2008

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**34529**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**34529**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	**Total sensible gain**	**34529**	**Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	6819	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600	Btuh
	Latent other gain	0	Btuh
	Latent total gain	**8419**	**Btuh**
	TOTAL GAIN	**42948**	**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

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 3/10/2008

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	2, Clear, 0.87, None,N,N	N	1.5ft	7ft.	12.0	0.0	12.0	29	29	348 Btuh
2	2, Clear, 0.87, None,N,N	N	1.5ft	7ft.	16.0	0.0	16.0	29	29	463 Btuh
3	2, Clear, 0.87, None,N,N	NE	8ft.	8ft.	20.0	0.0	20.0	29	60	1201 Btuh
4	2, Clear, 0.87, None,N,N	N	10ft.	9.66	80.0	0.0	80.0	29	29	2317 Btuh
5	2, Clear, 0.87, None,N,N	W	99ft.	8ft.	20.0	20.0	0.0	29	80	579 Btuh
6	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	54.0	0.0	54.0	29	29	1564 Btuh
7	2, Clear, 0.87, None,N,N	W	1.5ft	5ft.	12.0	0.7	11.3	29	80	917 Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	5ft.	32.0	2.0	30.0	29	80	2445 Btuh
9	2, Clear, 0.87, None,N,N	S	1.5ft	7ft.	12.0	12.0	0.0	29	34	348 Btuh
10	2, Clear, 0.87, None,N,N	S	1.5ft	10ft.	96.0	90.1	5.9	29	34	2808 Btuh
11	2, Clear, 0.87, None,N,N	S	6ft.	12ft.	24.0	24.0	0.0	29	34	695 Btuh
12	2, Clear, 0.87, None,N,N	S	6ft.	9ft.	10.0	10.0	0.0	29	34	290 Btuh
13	2, Clear, 0.87, None,N,N	S	6ft.	3.5ft	18.0	18.0	0.0	29	34	521 Btuh
14	2, Clear, 0.87, None,N,N	S	1.5ft	0ft.	24.0	24.0	0.0	29	34	695 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft	2.5ft	9.0	9.0	0.0	29	34	261 Btuh
16	2, Clear, 0.87, None,N,N	W	1.5ft	5.5ft	30.0	4.5	25.5	29	80	2160 Btuh
17	2, Clear, 0.87, None,N,N	N	1.5ft	0ft.	15.0	0.0	15.0	29	29	434 Btuh
	Window Total				484 (sqft)					18045 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1484.0	2.1	3095 Btuh
2	Frame - Wood - Adj	13.0/0.09	241.0	1.5	364 Btuh
	Wall Total		1725 (sqft)		3459 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	50.0	9.8	490 Btuh
	Door Total	70 (sqft)		686 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	4072.0	1.7	6743 Btuh
	Ceiling Total		4072 (sqft)		6743 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Adj	19.0	469 (sqft)	0.6	282 Btuh
2	Slab On Grade	0.0	280 (ft(p))	0.0	0 Btuh
	Floor Total		749.0 (sqft)		282 Btuh

	Zone Envelope Subtotal:		29216 Btuh
Infiltration	Type / SensibleNatural	ACH 0.30	Volume(cuft) 37320	CFM= 186.6	Load 3473 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230	+ Appliance 0	Load 1840 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**34529 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

3/10/2008

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**34529 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**34529 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**34529 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	6819 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8419 Btuh**
	TOTAL GAIN	**42948 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

Foreman, Michael & Stephanie Residence
32 NW Country Lake Dr
Lake City, FL

Project Title:
801044WadeWillisConstruction

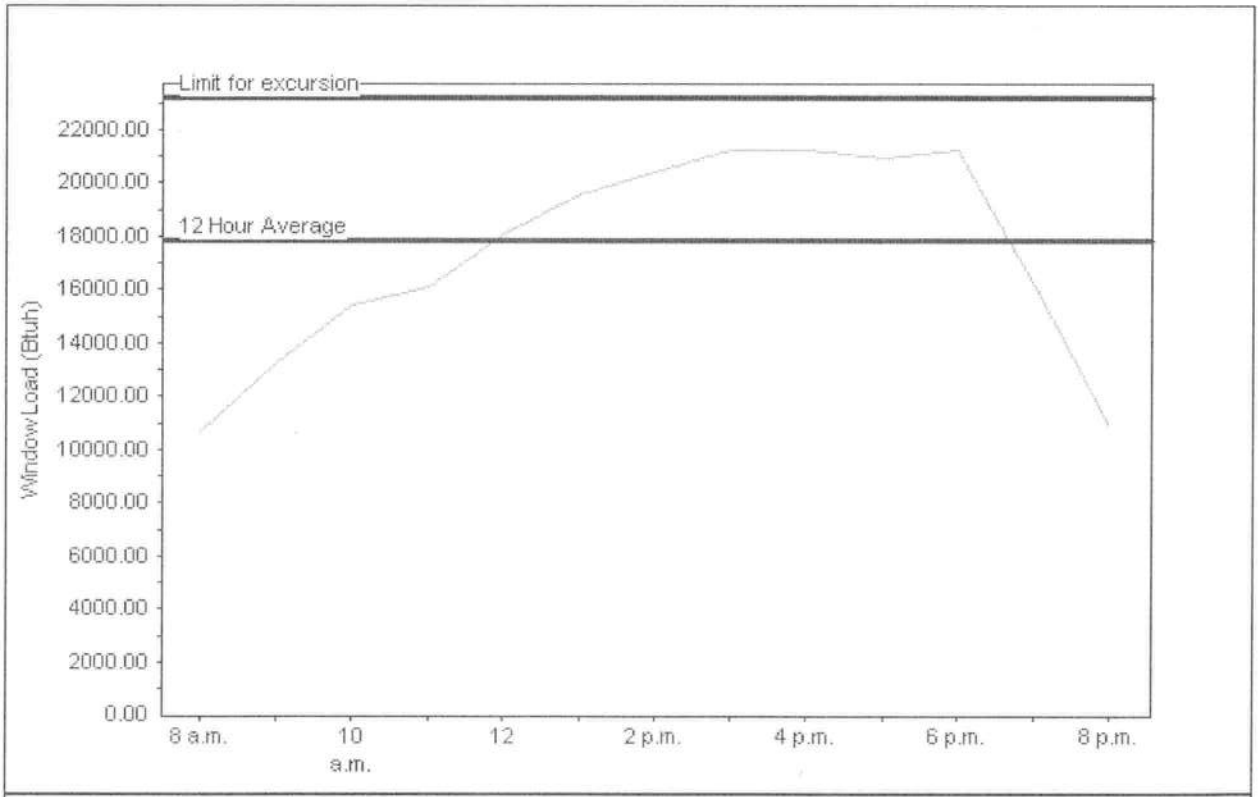
Class 3 Rating
Registration No. 0
Climate: North

3/10/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	17857 Btu
Summer setpoint	75 F	Peak window load for July	21229 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	23215 Btu
Latitude	29 North	Window excursion (July)	None

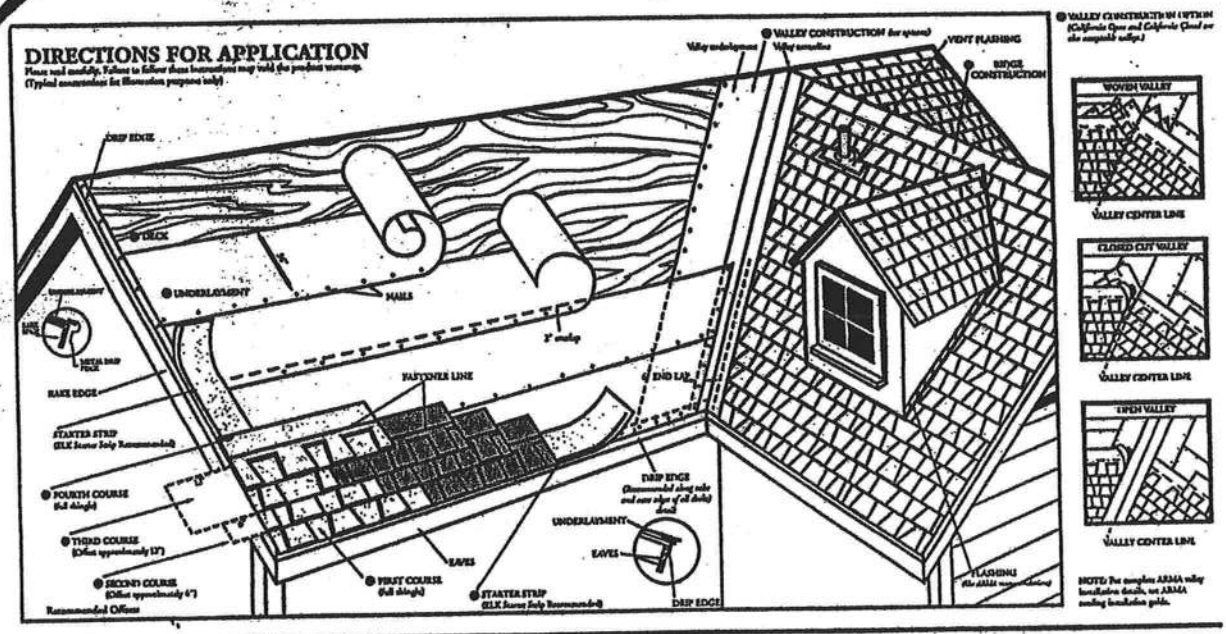
WINDOW Average and Peak Loads



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: 3-10-08



DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 8" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Elk Versashield® or self adhering underlayment is also acceptable. Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Technical Services Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" trimmed from the end of the first shingle, start at the rake edge overhanging the eave and rake edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof

❺ SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater than 4".

❻ THIRD COURSE

Offset the next course by 6" with respect to the second course, or consistent with the original offset.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof. Offsets may be adjusted around valleys and penetrations.

❽ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❾ RIDGE CONSTRUCTION

For ridge construction Elk recommends Class "A" Z®Ridge or Seal-A-Ridge® with formula *FLX*™ or RidgeCrest® with *FLX* (See ridge package for installation instructions). Vented RidgeCrest or 3-tab shingles are also approved.

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Using the fastener line as a reference, nail or staple the shingle in the double thickness common bond area. For shingles without a fastener line, nails or staples must be placed between and/or in the sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MANSARD APPLICATIONS

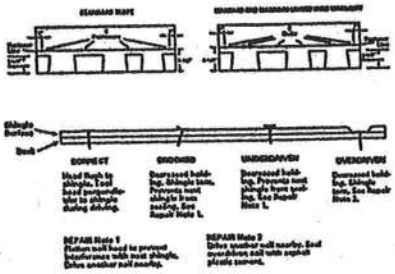
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.

HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK
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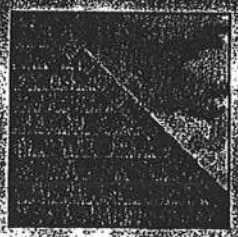
www.elkcorp.com

ELK



PRESTIQUE®
HIGH DEFINITION®

RAISED PROFILE®

Prestique Plus *High Definition* and Prestique Gallery Collection*

Product size ____13¼"x 39⅜"
Exposure ____5⅝"
Pieces/Bundle ____16
Bundles/Square ____3/98.5 sq.ft.
Squares/Pallet ____11

30-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 110 mph***

Raised Profile

Product size ____13¼"x 38⅜"
Exposure ____5⅝"
Pieces/Bundle ____22
Bundles/Square ____3/100 sq.ft.
Squares/Pallet ____16

30-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 70 mph.

Prestique I *High Definition*

Product size ____13¼"x 39⅜"
Exposure ____5⅝"
Pieces/Bundle ____16
Bundles/Square ____4/98.5 sq.ft.
Squares/Pallet ____14

40-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 90 mph***

Prestique *High Definition*

Product size ____13¼"x 38⅜"
Exposure ____5⅝"
Pieces/Bundle ____22
Bundles/Square ____3/100 sq.ft.
Squares/Pallet ____16

30-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/*FLX*™

Size: 12"x 12"
Exposure: 6⅝"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Vented RidgeCrest™ w/*FLX*™

Size: 13"x 13⅜"
Exposure: 9⅞"
Pieces/Box: 28
Coverage: 5 boxes = 100 linear feet

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors (Check Availability): Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood. Gallery Collection: Balsam Forest*, Weathered Sage*, Sienna Sunset*.

All Prestique, Raised Profile and Seal-A-Ridge, and Prestique Starter Strip roofing products contain sealant which activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae.

All Prestique and Raised Profile shingles meet UL* Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type I; D 3161, Type I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and limitations.
** Effective January 1, 2004, the seven year non-prorated Umbrella Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for such products. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment in all valleys. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MO, KS, CO, UT, NV, & OR.
***For a limited Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 80 mph for Prestique I or Grand, at least six (6) properly placed NAILS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

SPECIFICATIONS

Scope: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

Preparation of Roof Deck: Roof deck to be dry, well-seasoned 1" x 8" (25.4mm x 152.4mm) boards; exterior grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

Materials: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For Low slopes[4" per foot (101.6/304.8mm)], use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

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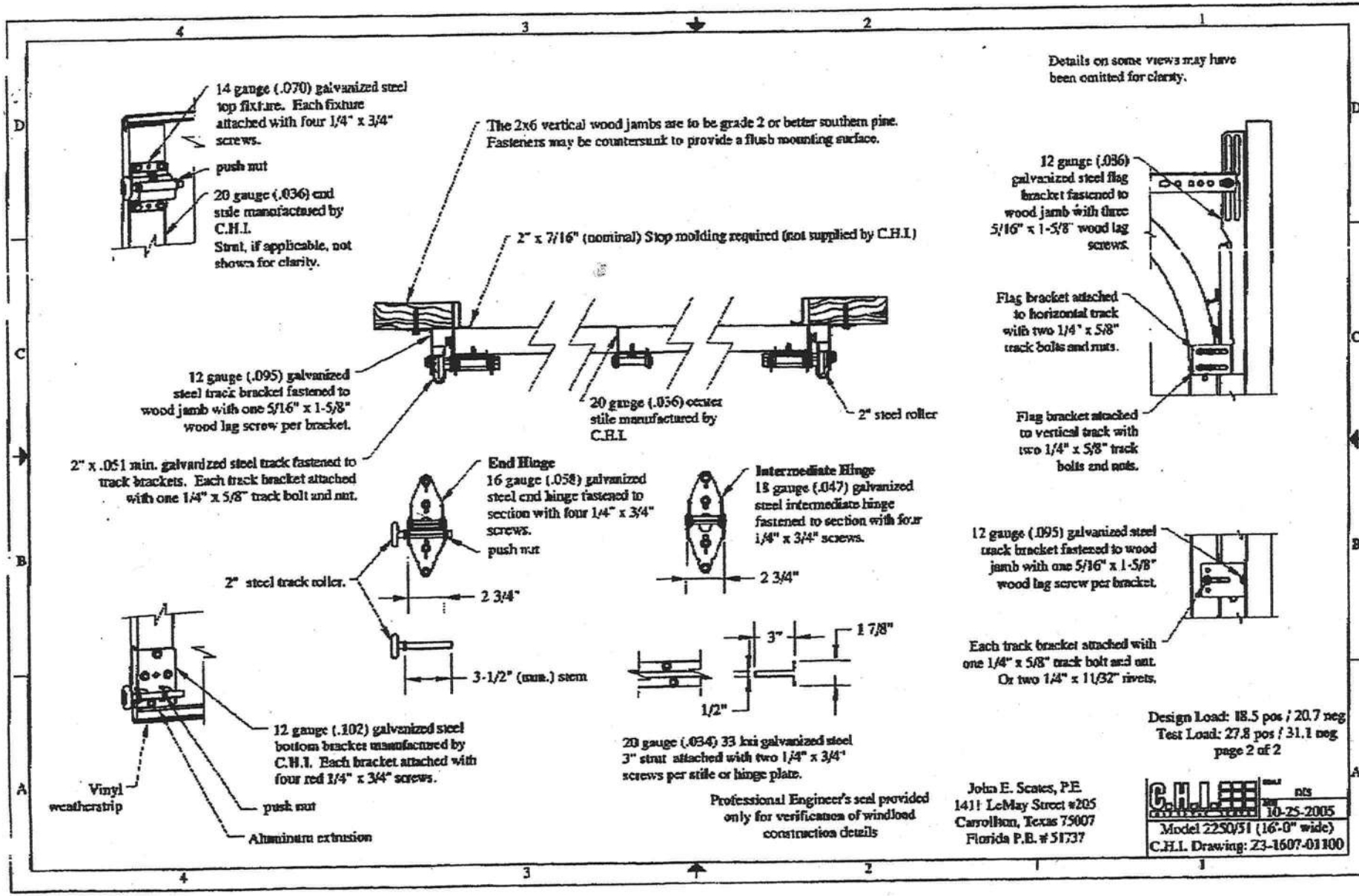


Design Load: 18.5 pos / 20.7 neg
Test Load: 27.8 pos / 31.1 neg
page 2 of 2

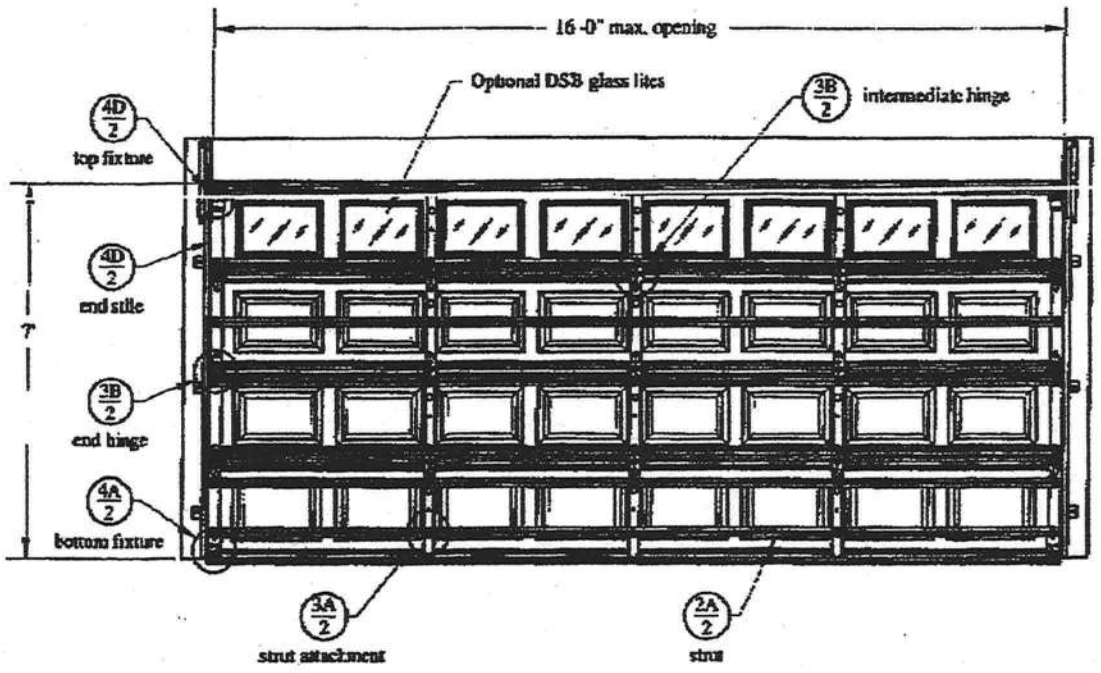
Professional Engineer's seal provided only for verifications of windload construction details

John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

C.H.I. | scale: nts | date: 10-25-2005

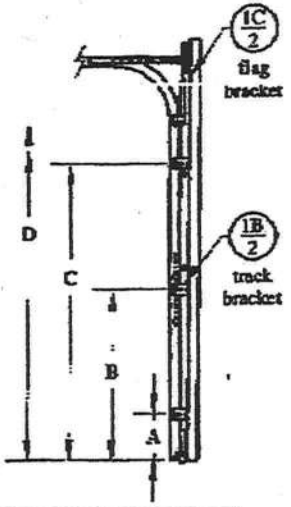
Model 2250/51 (16'-0" wide)
C.H.I. Drawing: Z3-1607-01100

Door Model	Gauge	Decimal
2250/2251	25	.0185
4250/4251	25	.0185
2240/2241	24	.0225
4240/4241	24	.0225
5240/5241	24	.0225



door height	section quantity	strut quantity	trk brkt per side
6'-6" to 7'-0"	4	7	3
7'-6" to 8'-0"	5	8	4
8'-3" to 8'-9"	5	9	4
9'-0" to 10'-6"	6	11	5
10'-9" to 12'-3"	7	12	6
12'-6" to 14'-0"	8	15	7

Refer to Supplemental Instructions for strut placement on doors over 7'-0" high.



Track Bracket Chart

track bracket	door height	6'-6"	6'-9"	7'-0"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"
	D	n/a	n/a	n/a	72"	69"	72"	81"	84"	87"
	C	60"	53"	65"	58"	55"	58"	60"	63"	66"
	B	35"	35"	38"	34"	31"	34"	32"	35"	38"
	A	10"	7"	10"	10"	7"	10"	4"	7"	10"

Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

This door has been tested in accordance with ANSI/DASMA 108-2002
Design Pressure (DP): 18.5 psf / 20.7 psf
Test Pressure (TP): 27.8 psf / 31.1 psf

Per 2004 FBC Table 1609.6E, DP meets or exceeds basic wind speed of;
V = 110 MPH for Exposure B and mean roof height of 33' or less
V = 93 MPH for Exposure C and mean roof height of 30' or less

Maximum door size: 16'-0" wide by 14'-0" tall

Glazing and door have not been tested for windborne debris.

Wood buck and supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing.

If door is not electrically operated, a lock must be installed.

Professional Engineer's seal provided only for verification of windload construction details

John E. Scales, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

FL 5519

C.H.I.

scale	n/s
date	10-25-2005
Model 2250/51 (16'-0" wide)	
C.H.I. Drawing: Z3-1607-01100	

ategory (cont.)	Manufacturer	Product Description	Approval Number(s)
pplied Roof Sys			
ents-Adhesives – atings			
Roof Tile Adhesive			
. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	SIMPSON STRONG TIE	H-16; SP4, H2.5A, H-10, LSTA,	FL 2822
2. Truss plates			
3. Engineered lumber	ANTHONY	3½" - 5½" to 24' GLU-LAM	ASTM 7182.80
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof	NORBOARD	7/16" - 1/2" OSB	NER 108
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspect on.

Contractor or Contractor's Authorized Agent Signature

Print Name

Date 12/9

Location

Permit # (FOR STAFF USE ONLY)

PRODUCT APPROVAL SPECIFICATION SHEET

Location: [illegible] Emerald Cove Lot 74 **Project Name:** [illegible]

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	THERMTRU	6'8" STEEL/WOOD upto 6 FT OPEN INCLUDES SIDELITES	01-0828,08
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS	CAPITAL & BETTER BUILT.	SINGLE HUNG	AAMA CERT BB/
1. Single hung	MI Products	740, 165, 3240, 4250 Series	101/I.S.2.-97
2. Horizontal Slider			CTLA-744W-B
3. Casement			
4. Double Hung			
5. Fixed		740 165 3240 4250 Series	01-35673.05
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion	MI Products	740, 165, 3240, 4250 Series	01-35673.05
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding (Sheet Wall)	NORBOARD	8'-9'x10' OSB WALL Sheathing WIND STROM	NER 108
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane	BARRICADE	BUILDING WRAP FED SPEC.	UU B790A
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments	WOODLAND	15#, 30# FELT	ASTM D-4869
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

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 22-3S-16-02268-142 **Building permit No.** 000026860

Use Classification SFD,UTILITY **Fire:** 38.52

Permit Holder WADE WILLIS **Waste:** 100.50

Owner of Building MICHAEL & STEPHANIE FOREMAN **Total:** 139.02

Location: 322 NW COUNTRY LAKE DR., LAKE CITY, FL

Date: 04/08/2009

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TFL8228Z0307152731

Truss Fabricator:	Anderson Truss Company
Job Identification:	8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , **
Truss Count:	90
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD);ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.37, 7.24, 7.36.
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 - 32.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 03/07/2008

-Truss Design Engineer-
Doug Fleming
Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844

Notes:

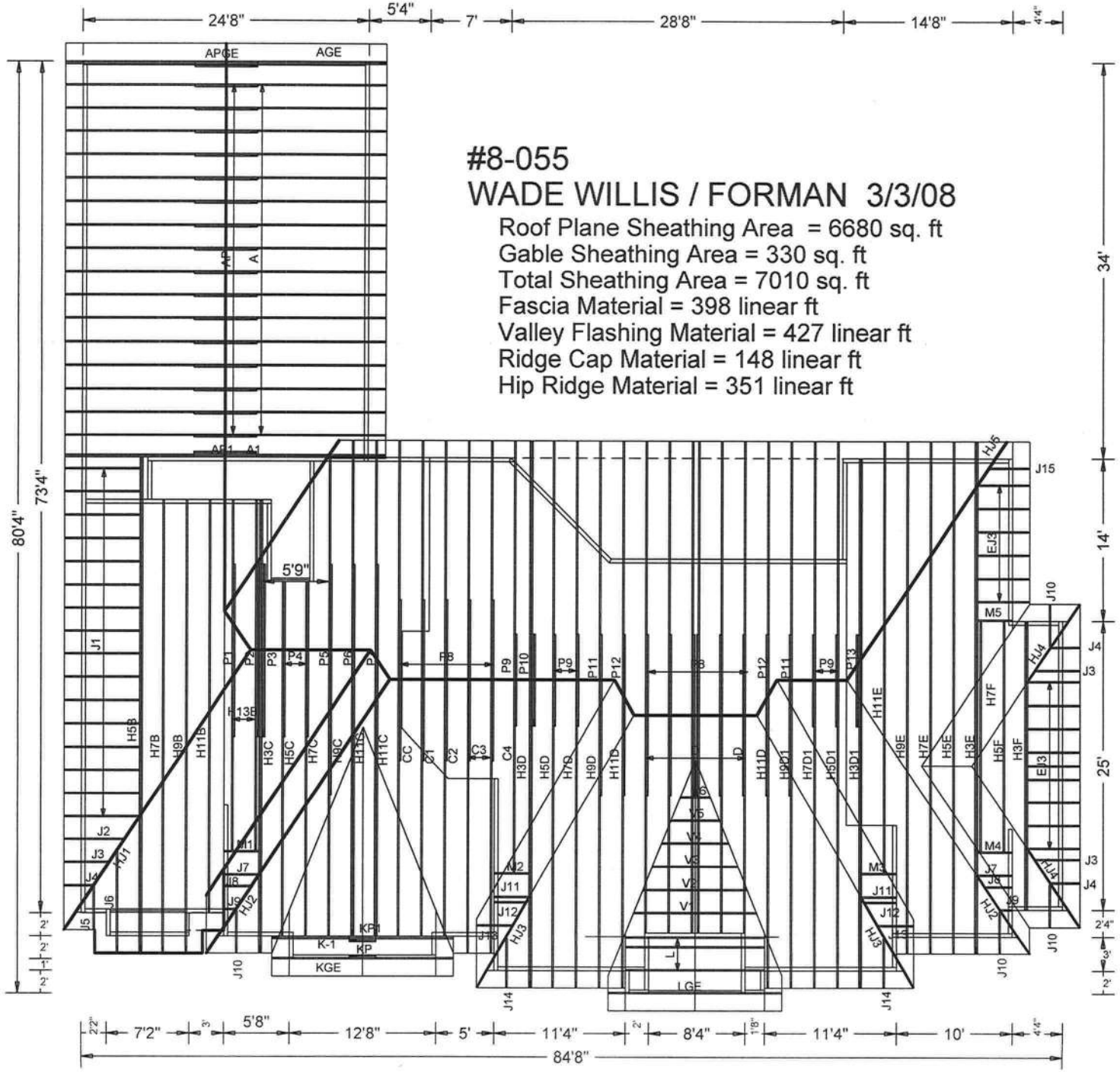
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A11030EE-GBLLETIN-PIGBACKA-PIGBACKB-BRCLBSUB-A11015EE-VALTRUSS-CNBRGBLK-

#	Ref Description	Drawing#	Date
1	50231--APGE	08067156	03/07/08
2	50232--H11E	08067076	03/07/08
3	50233--H5D1	08067091	03/07/08
4	50234--H7D1	08067092	03/07/08
5	50235--H9D1	08067093	03/07/08
6	50236--C4	08067077	03/07/08
7	50237--K-1	08067078	03/07/08
8	50238--J14	08067079	03/07/08
9	50239--J12	08067080	03/07/08
10	50240--J13	08067081	03/07/08
11	50241--J11	08067082	03/07/08
12	50242--P8	08067083	03/07/08
13	50243--M2	08067084	03/07/08
14	50244--M3	08067085	03/07/08
15	50245--H3E	08067086	03/07/08
16	50246--H5E	08067087	03/07/08
17	50247--H7E	08067088	03/07/08
18	50248--H9E	08067089	03/07/08
19	50249--M5	08067090	03/07/08
20	50250--M4	08067091	03/07/08
21	50251--HJ2	08067092	03/07/08
22	50252--J10	08067093	03/07/08
23	50253--H3D	08067098	03/07/08
24	50254--J8	08067094	03/07/08
25	50255--J9	08067095	03/07/08
26	50256--HJ5	08067096	03/07/08
27	50257--J15	08067097	03/07/08
28	50258--J7	08067098	03/07/08
29	50259--H3F	08067099	03/07/08
30	50260--H5F	08067100	03/07/08
31	50261--H7F	08067101	03/07/08
32	50262--HJ4	08067102	03/07/08
33	50263--J3	08067103	03/07/08
34	50264--H5D	08067094	03/07/08
35	50265--J4	08067104	03/07/08
36	50266--KGE	08067105	03/07/08
37	50267--EJ3	08067106	03/07/08
38	50268--KP1	08067107	03/07/08

#	Ref Description	Drawing#	Date
39	50269--H3D1	08067108	03/07/08
40	50270--H7D	08067095	03/07/08
41	50271--H7B	08067113	03/07/08
42	50272--CC	08067115	03/07/08
43	50273--C1	08067116	03/07/08
44	50274--C2	08067117	03/07/08
45	50275--C3	08067118	03/07/08
46	50276--M1	08067119	03/07/08
47	50277--HJ3	08067120	03/07/08
48	50278--H9B	08067121	03/07/08
49	50279--H9D	08067096	03/07/08
50	50280--H11B	08067123	03/07/08
51	50281--AP	08067125	03/07/08
52	50282--HJ1	08067126	03/07/08
53	50283--H5B	08067127	03/07/08
54	50284--J5	08067128	03/07/08
55	50285--J2	08067129	03/07/08
56	50286--J1	08067130	03/07/08
57	50287--J6	08067131	03/07/08
58	50288--A	08067132	03/07/08
59	50289--P10	08067133	03/07/08
60	50290--AGE	08067157	03/07/08
61	50291--P13	08067139	03/07/08
62	50292--P9	08067140	03/07/08
63	50293--P11	08067141	03/07/08
64	50294--P12	08067142	03/07/08
65	50295--H11D	08067097	03/07/08
66	50296--LGE	08067143	03/07/08
67	50297--KP	08067145	03/07/08
68	50298--V1	08067146	03/07/08
69	50299--V2	08067147	03/07/08
70	50300--V3	08067148	03/07/08
71	50301--V4	08067149	03/07/08
72	50302--V5	08067150	03/07/08
73	50303--V6	08067151	03/07/08
74	50304--AP1	08067152	03/07/08
75	50305--A1	08067153	03/07/08
76	50306--L	08067154	03/07/08

#	Ref Description	Drawing#	Date
77	50307--D	08067104	03/07/08
78	50308--H13B	08067135	03/07/08
79	50309--H3C	08067109	03/07/08
80	50310--P1	08067124	03/07/08
81	50311--P3	08067136	03/07/08
82	50312--P2	08067122	03/07/08
83	50313--P4	08067137	03/07/08
84	50314--P5	08067138	03/07/08
85	50315--P6	08067144	03/07/08
86	50316--P7	08067155	03/07/08
87	50317--H5C	08067110	03/07/08
88	50318--H7C	08067111	03/07/08
89	50319--H9C	08067112	03/07/08
90	50320--H11C	08067114	03/07/08



JOB DESCRIPTION:: WADE WILLIS CONSTRUCTION
/: WADE WILLIS

JOB NO:
8-055

PAGE NO:
1 OF 1

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

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

110 mph wind, 21.85 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=1.2 psf.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

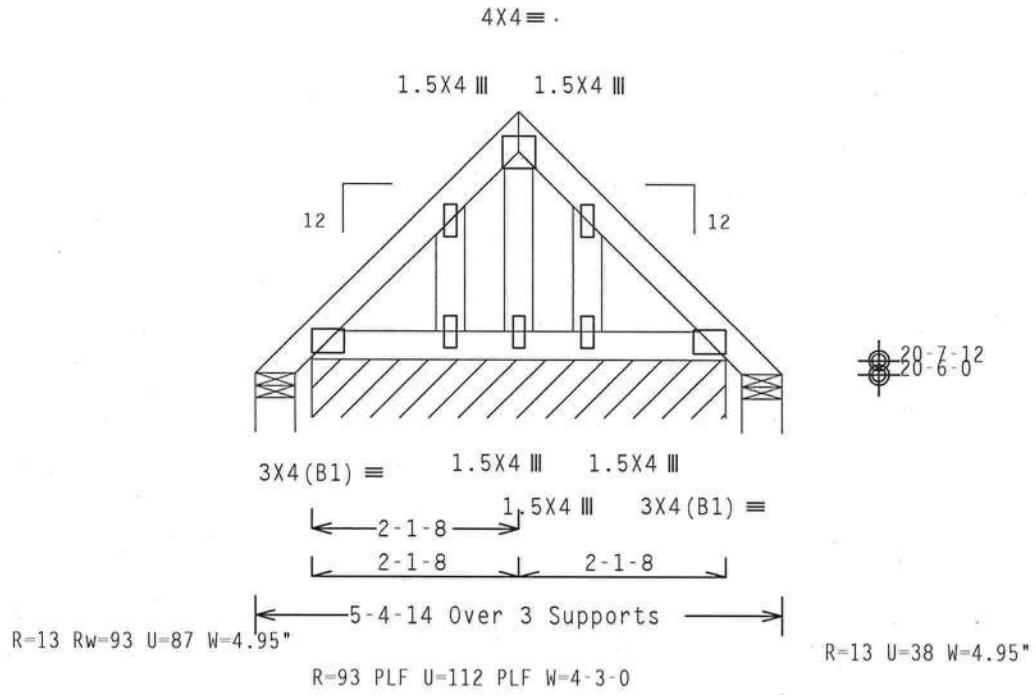
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 4.00 PSF. Top chord must not be cut or notched.

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.



Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.0521 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMFORMANCE 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. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAY 07 '08

TC LL	20.0 PSF	REF	R8228- 50231
TC DL	10.0 PSF	DATE	03/07/08
BC DL	2.0 PSF	DRW	HCUSR8228 08067156
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	32.0 PSF	SEQN-	15731 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H11E)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS M'FR.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W9 2x6 SP #2:

Roof overhang supports 2.00 psf soffit load.

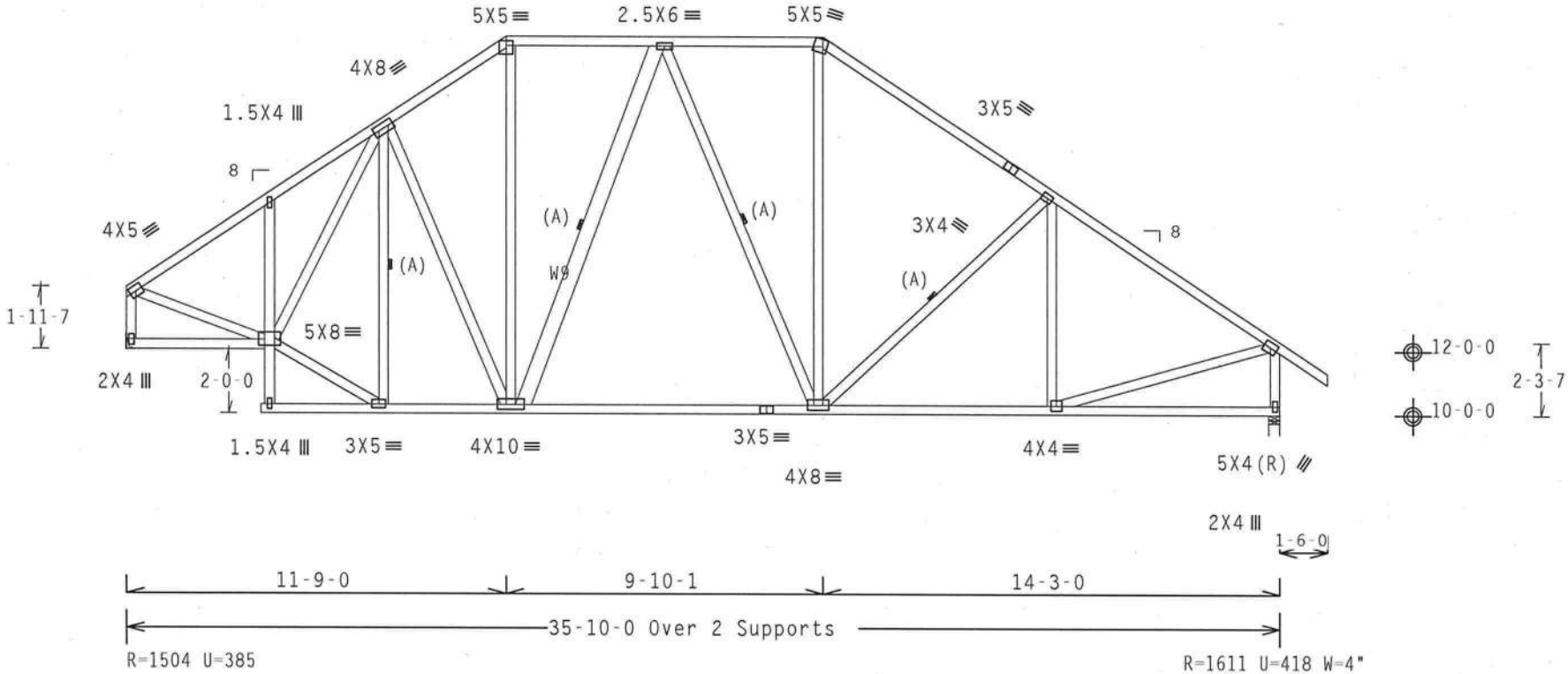
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 16.54 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/-

PLT TYP. Wave

Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMFORMANCE 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. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50232
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067076
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24987
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H5D1)

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

Roof overhang supports 2.00 psf soffit load.

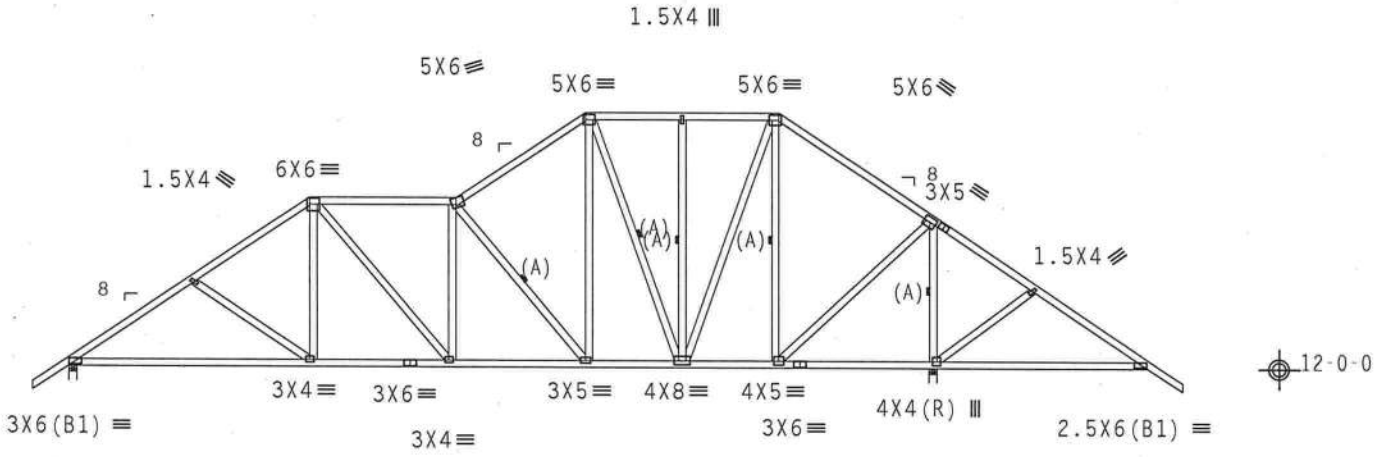
(A) Continuous lateral bracing equally spaced on member.

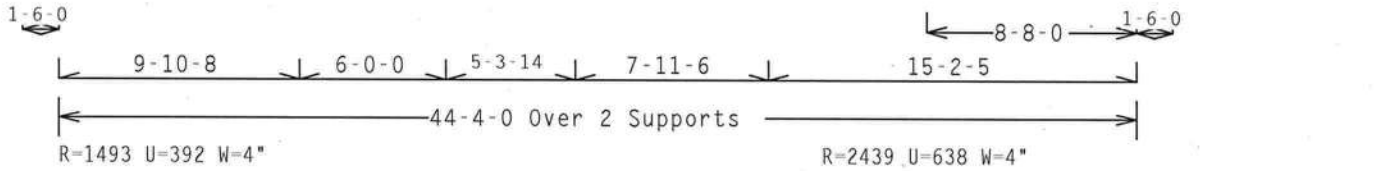
NOTE:
TRUSS MAY EXHIBIT UNDESIREABLE DEFLECTION
UNDER FULL DESIGN LOAD, AS THE LONG TERM EFFECTS
OF CREEP HAVE NOT BEEN CONSIDERED FOR THIS DESIGN

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.0424 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
'07 '08

TC LL	20.0 PSF	REF	R8228- 50233
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067091
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	78544
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H7D1)

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

Roof overhang supports 2.00 psf soffit load.

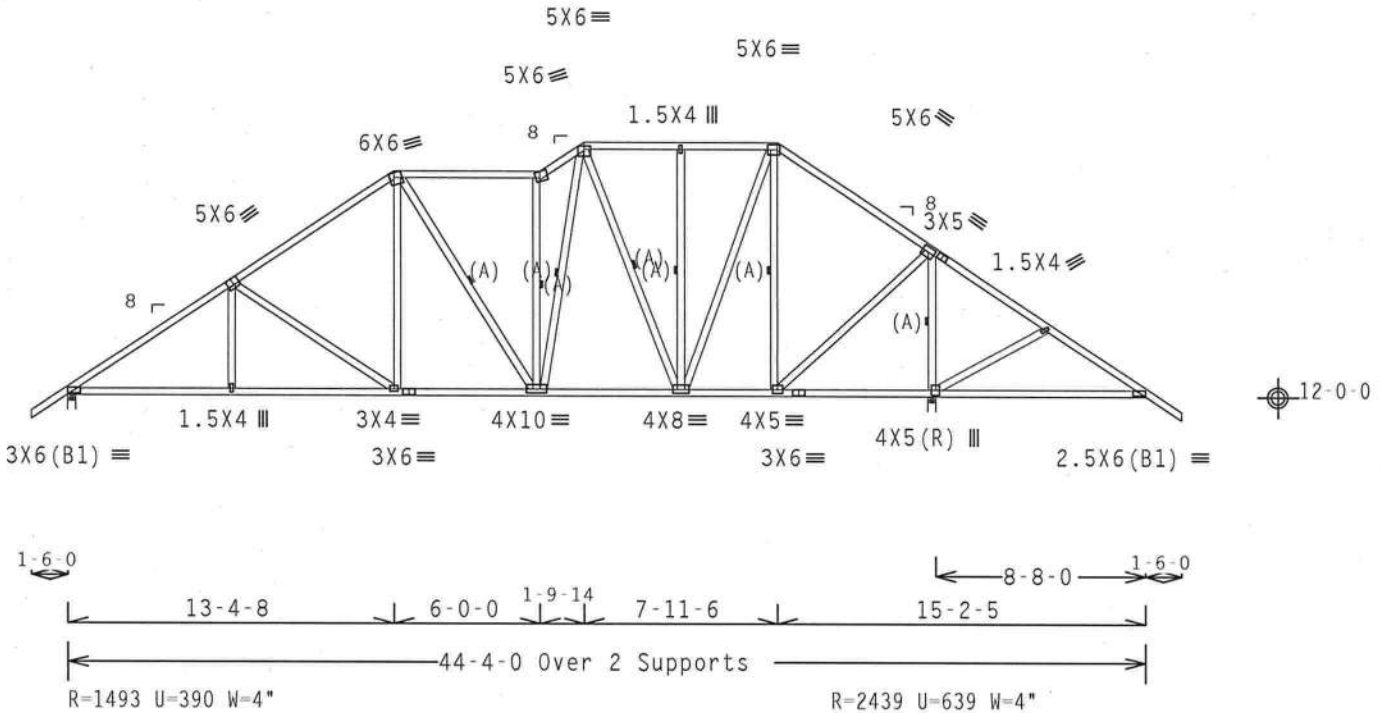
(A) Continuous lateral bracing equally spaced on member.

NOTE:
TRUSS MAY EXHIBIT UNDESIREABLE DEFLECTION
UNDER FULL DESIGN LOAD, AS THE LONG TERM EFFECTS
OF CREEP HAVE NOT BEEN CONSIDERED FOR THIS DESIGN

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF	R8228- 50234
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067092
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	78540
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

Roof overhang supports 2.00 psf soffit load.

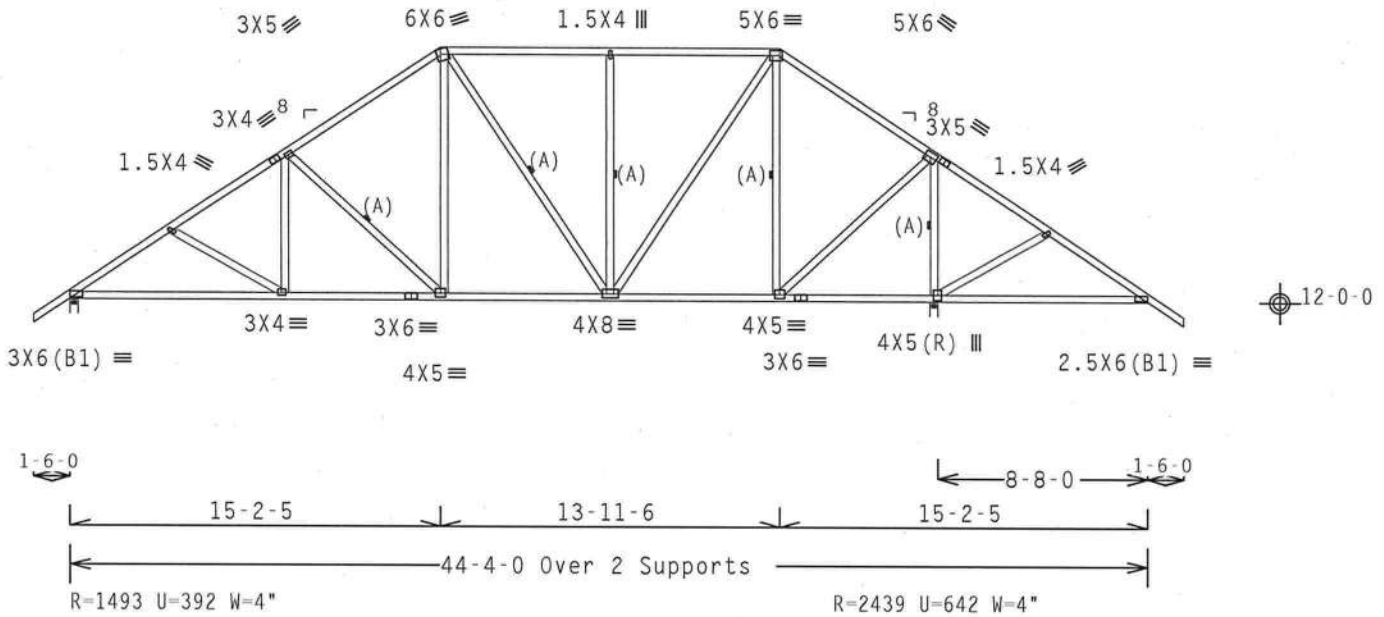
(A) Continuous lateral bracing equally spaced on member.

NOTE:
TRUSS MAY EXHIBIT UNDESIREABLE DEFLECTION
UNDER FULL DESIGN LOAD, AS THE LONG TERM EFFECTS
OF CREEP HAVE NOT BEEN CONSIDERED FOR THIS DESIGN

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

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07 '08

TC LL	20.0 PSF	REF	R8228- 50235
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067093
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	78536
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

Left end vertical not exposed to wind pressure.

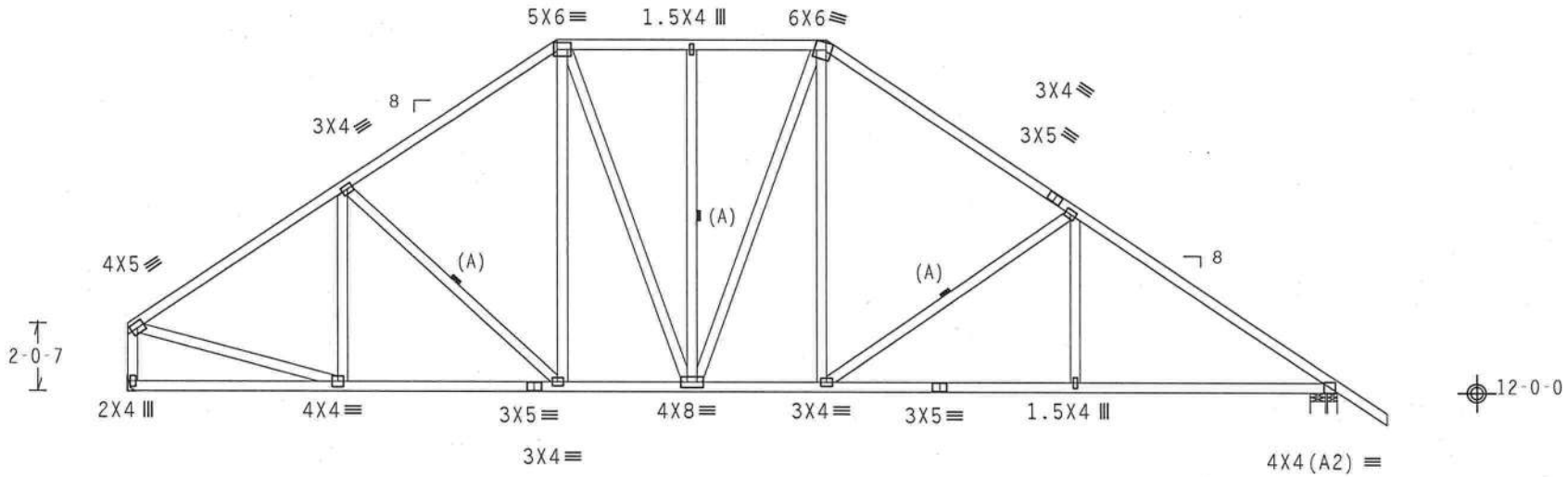
Roof overhang supports 2.00 psf soffit load.

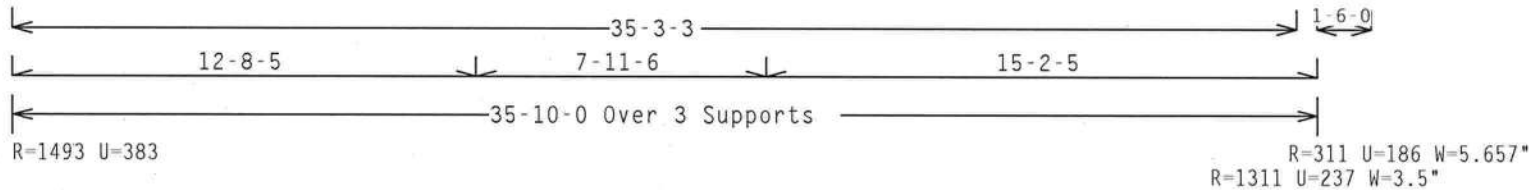
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF	R8228- 50236
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067077
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN-	24969
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - K-1)

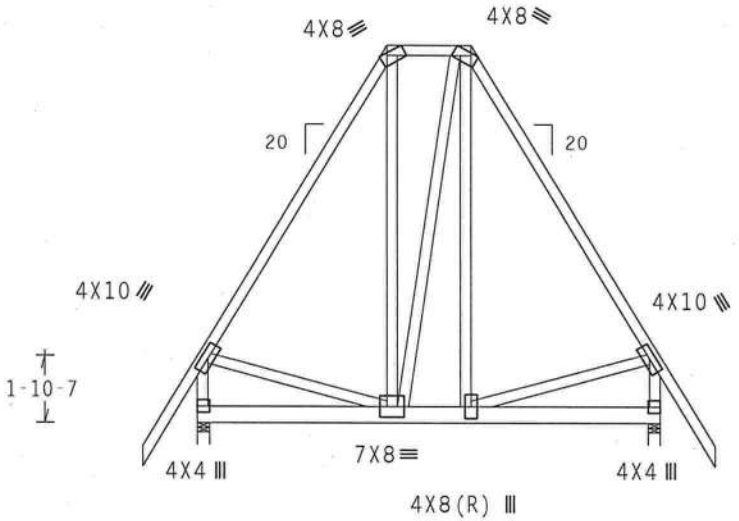
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

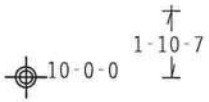
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3

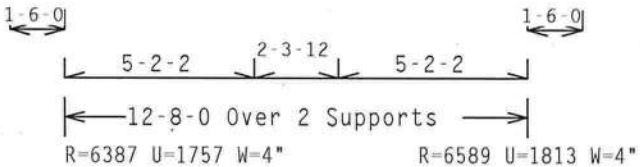
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	79 PLF	at	-1.50	to	79 PLF	at 5.18
TC - From	79 PLF	at	5.18	to	79 PLF	at 7.49
TC - From	79 PLF	at	7.49	to	79 PLF	at 14.17
BC - From	8 PLF	at	-1.50	to	8 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 12.67
BC - From	8 PLF	at	12.67	to	8 PLF	at 14.17

BC - 1289 LB Conc. Load at 1.40
BC - 1737 LB Conc. Load at 3.40
BC - 3313 LB Conc. Load at 5.40
BC - 1656 LB Conc. Load at 7.40
BC - 1735 LB Conc. Load at 9.40, 11.40







R=6387 U=1757 W=4" R=6589 U=1813 W=4"

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_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, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FABRICATOR TO REVIEW THIS DWG PRIOR TO CUTTING LUMBER TO VERIFY THAT ALL DATA, INCLUDING DIMENSIONS AND LOADS, CONFORM TO THE ARCHITECTURAL PLANS/ SPECIFICATIONS AND FABRICATOR'S TRUSS LAYOUT.

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.0424 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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'07 '08

TC LL	20.0 PSF	REF	R8228- 50237
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067078
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78505
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J14)

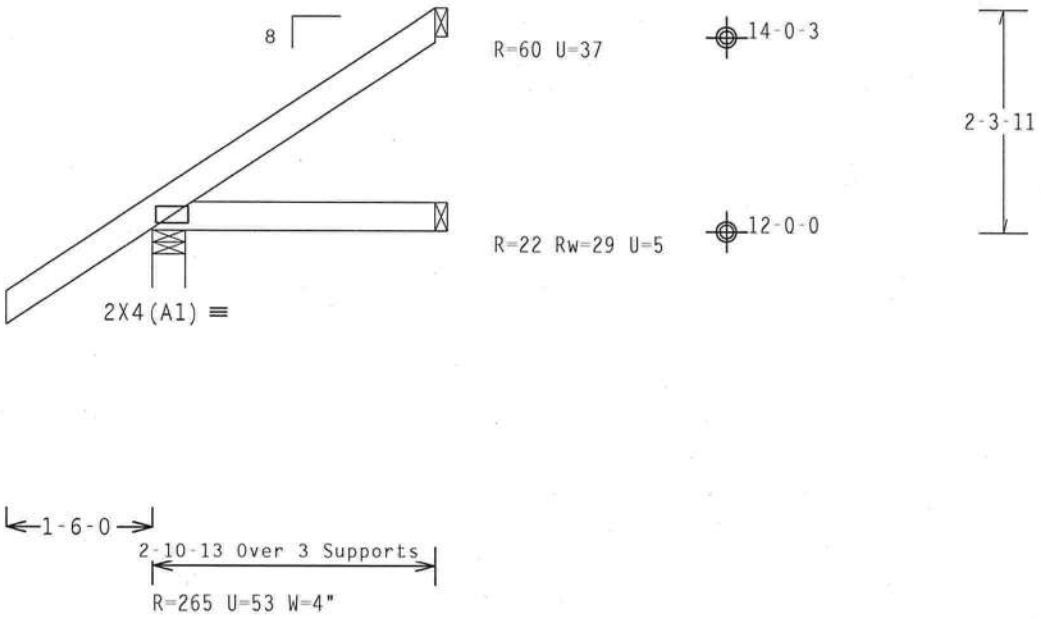
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50238
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067079
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	24914
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

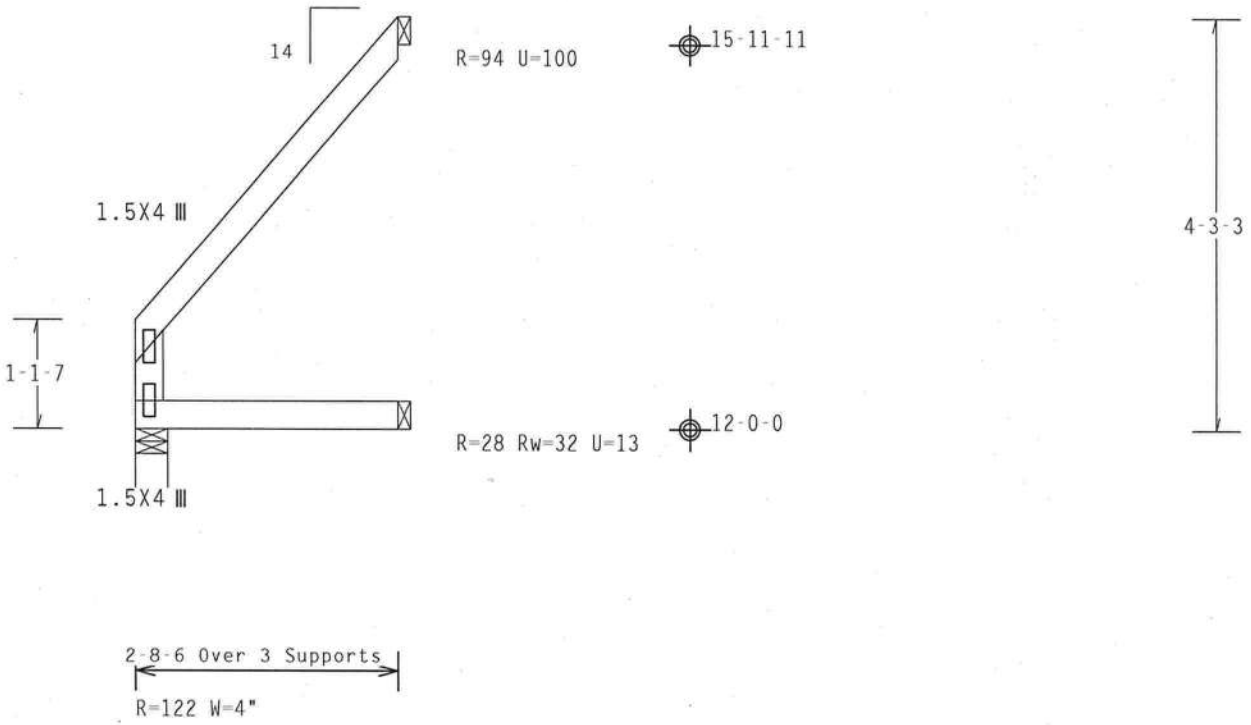
(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J12)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123.16

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50239
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067080
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24923
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J13)

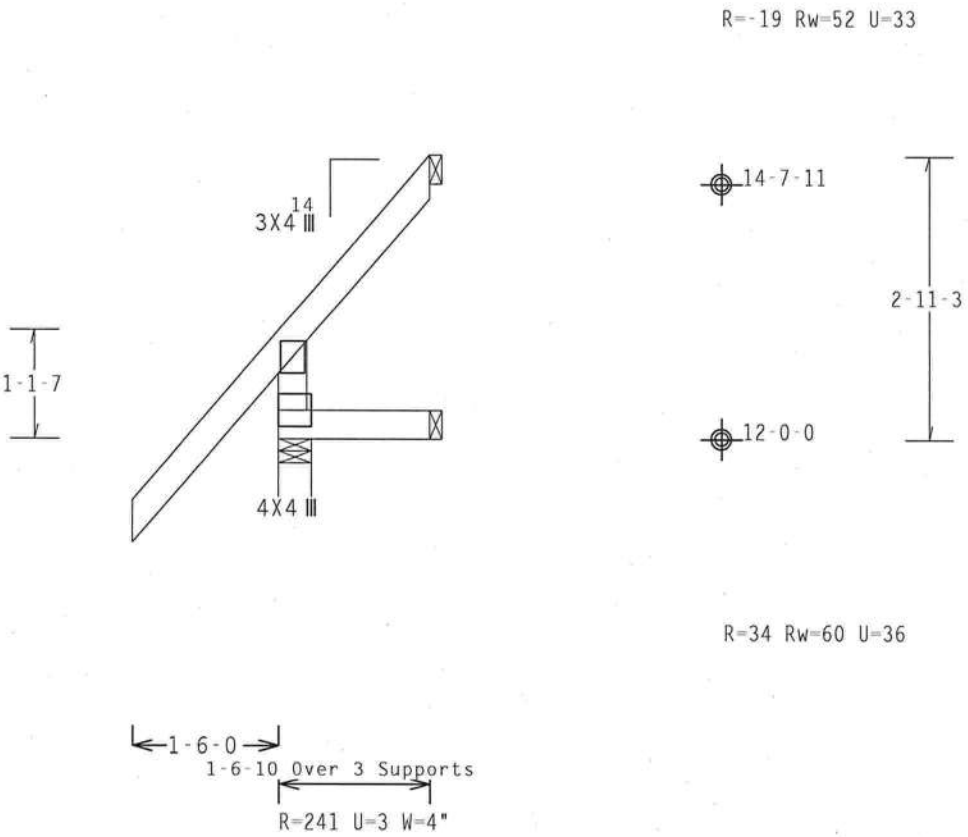
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50240
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067081
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24919
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

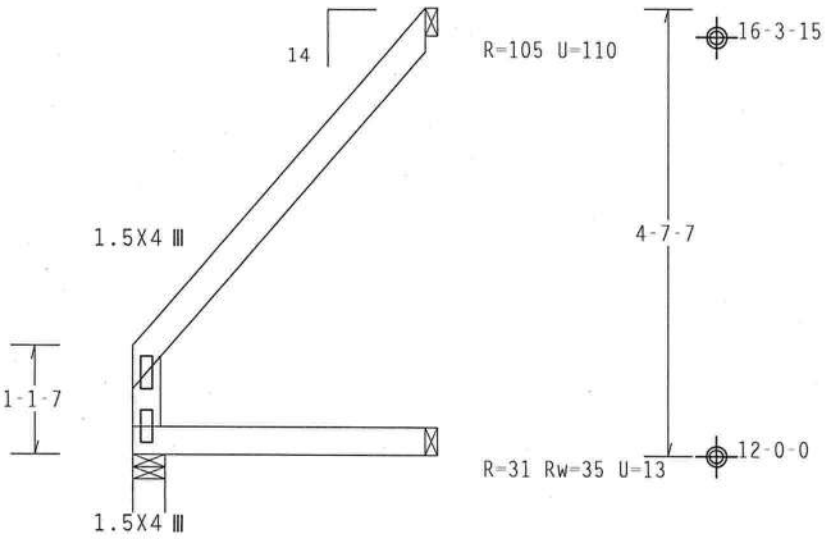
(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J11)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



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

PLT TYP. Wave

QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

07 '08

TC LL	20.0 PSF	REF	R8228- 50241
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067082
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	24927
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

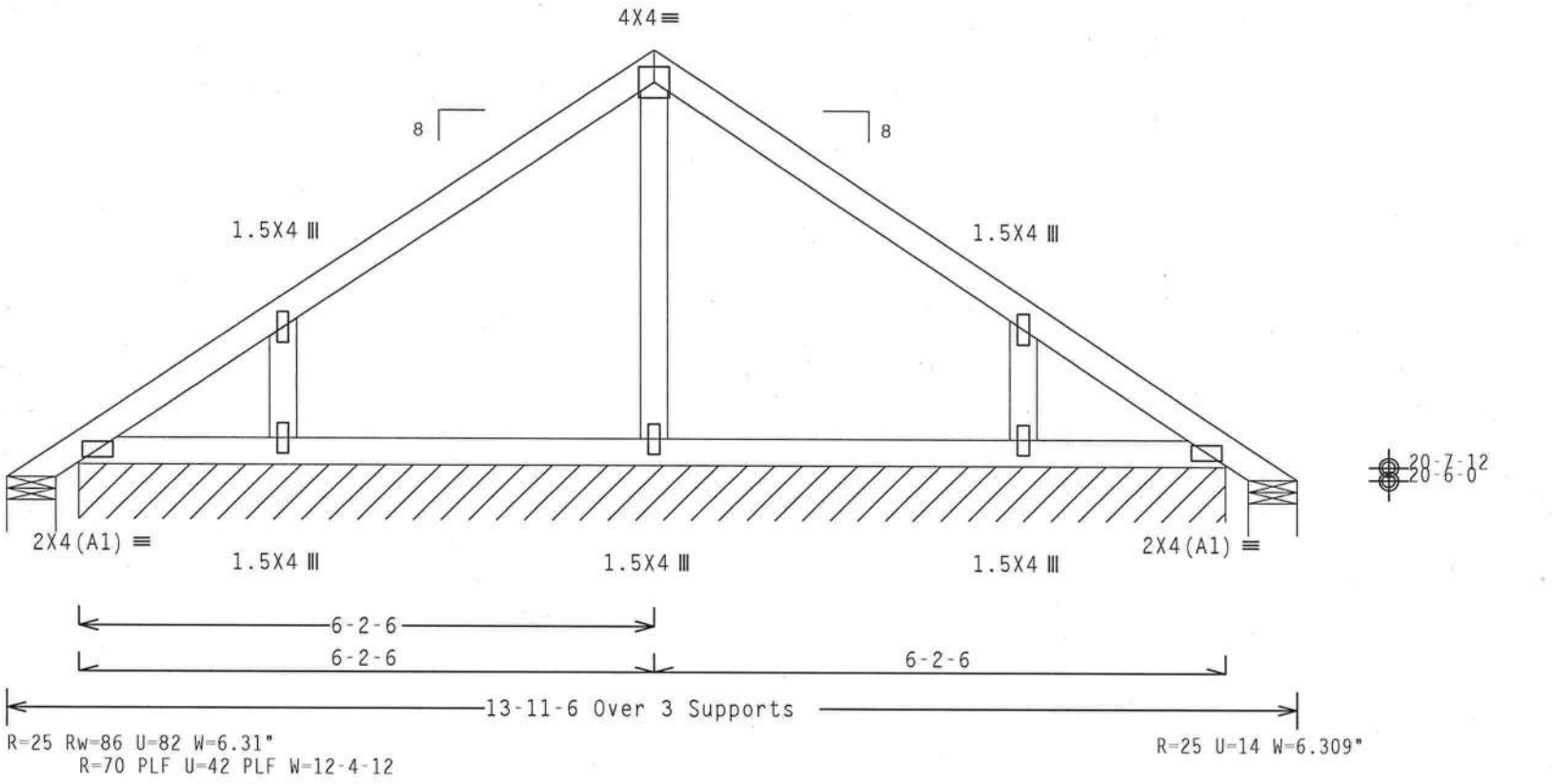
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 22.82 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave

QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50242
TC DL	10.0 PSF	DATE	03/07/08
BC DL	2.0 PSF	DRW	HCUSR8228 08067083
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	32.0 PSF	SEQN-	78436
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

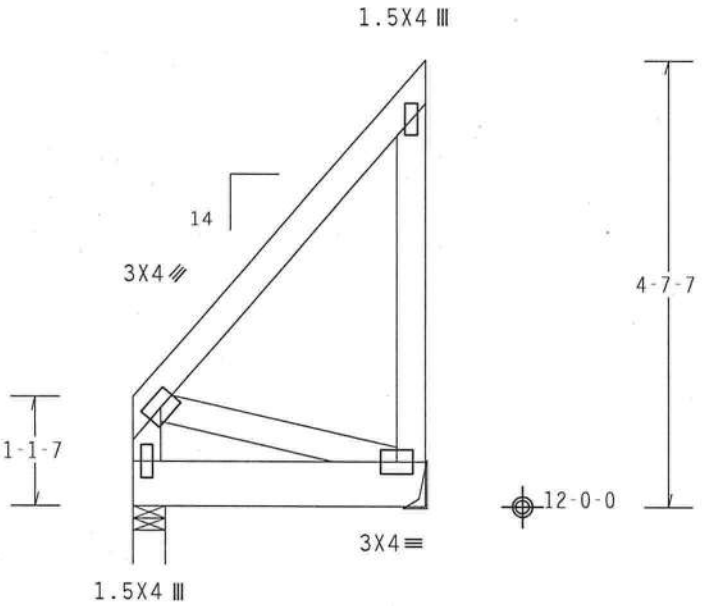
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

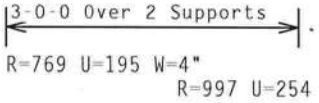
Wind reactions based on MWFRS pressures.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 71 PLF at 0.00 to 71 PLF at 3.00
BC - From 20 PLF at 0.00 to 20 PLF at 3.00
BC - 1493 LB Conc. Load at 1.73

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50243
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067084
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	25005
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - M3)

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

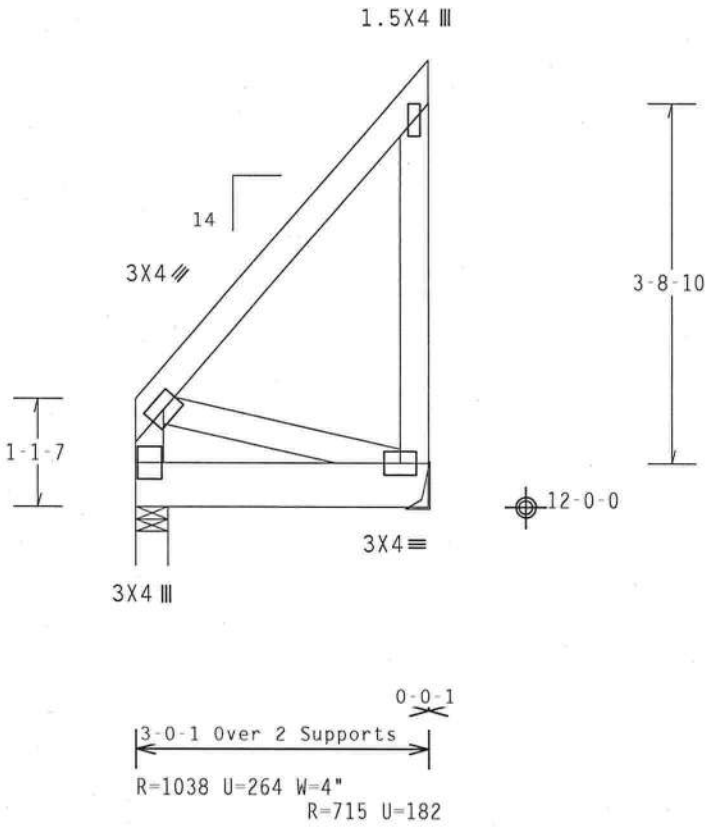
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 71 PLF at 0.00 to 71 PLF at 3.00
BC - From 20 PLF at 0.00 to 20 PLF at 3.00
BC - 1504 LB Conc. Load at 1.06

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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07 '08

TC LL	20.0 PSF	REF	R8228- 50244
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067085
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	25010
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense :B1 2x6 SP #2:
Webs 2x4 SP #3 :W8, W14 2x4 SP #2 Dense:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 5.25
TC - From 64 PLF at 5.25 to 64 PLF at 7.58
TC - From 64 PLF at 7.58 to 64 PLF at 14.08
TC - From 64 PLF at 14.08 to 64 PLF at 15.59
TC - From 64 PLF at 15.59 to 64 PLF at 22.09
TC - From 64 PLF at 22.09 to 64 PLF at 39.09
TC - From 64 PLF at 39.09 to 64 PLF at 42.83
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 41.33
BC - From 5 PLF at 41.33 to 5 PLF at 42.83
TC - 300 LB Conc. Load at 5.25
TC - 1093 LB Conc. Load at 7.31
TC - 1105 LB Conc. Load at 27.40
TC - 65 LB Conc. Load at 29.02, 31.02, 33.02, 35.02, 37.02
TC - 101 LB Conc. Load at 39.02
BC - 123 LB Conc. Load at 5.25
BC - 1093 LB Conc. Load at 7.31
BC - 1105 LB Conc. Load at 27.40
BC - 40 LB Conc. Load at 29.02, 31.02, 33.02, 35.02, 37.02 BC - 91 LB Conc. Load at 39.09

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

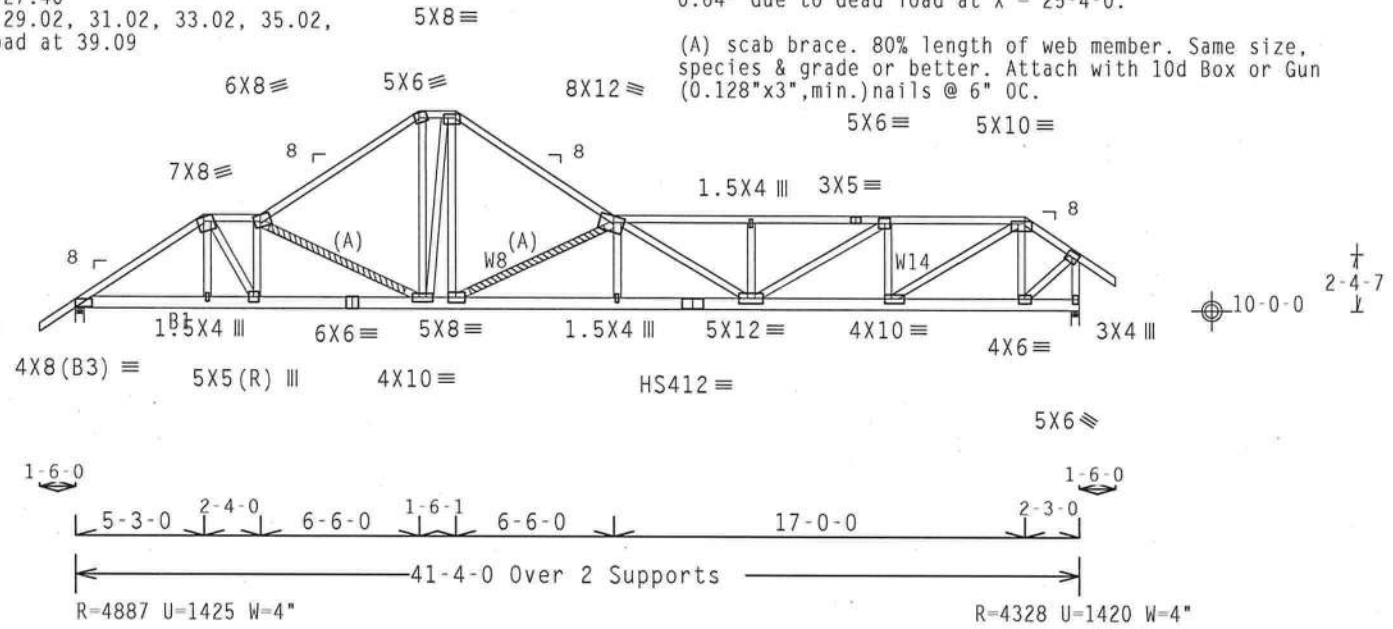
Right end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

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

Calculated vertical deflection is 0.41" due to live load and 0.64" due to dead load at X = 25-4-0.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No.66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50245
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067086
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23660
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- . ** - H5E)

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

Roof overhang supports 2.00 psf soffit load.

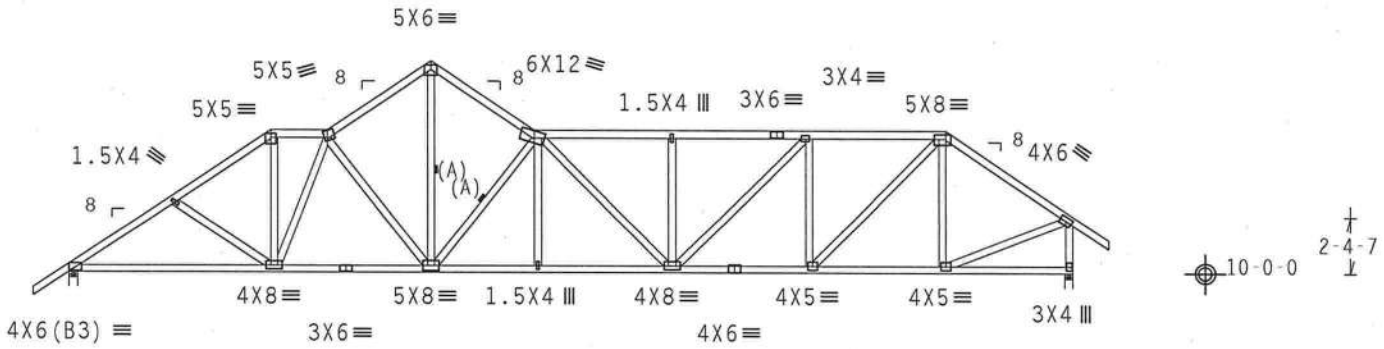
(A) Continuous lateral bracing equally spaced on member.

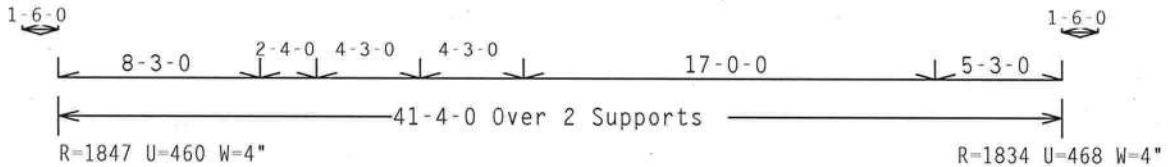
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, 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. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50246
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067087
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	23652
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

Roof overhang supports 2.00 psf soffit load.

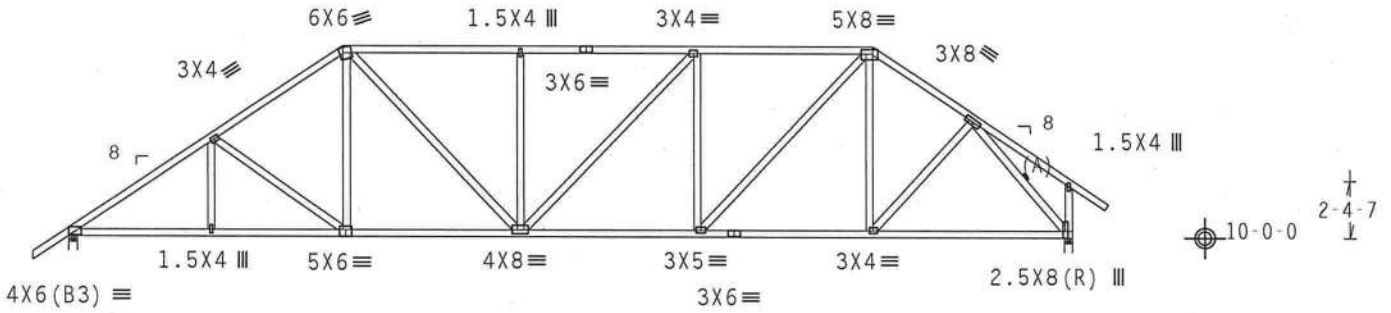
(A) Continuous lateral bracing equally spaced on member.

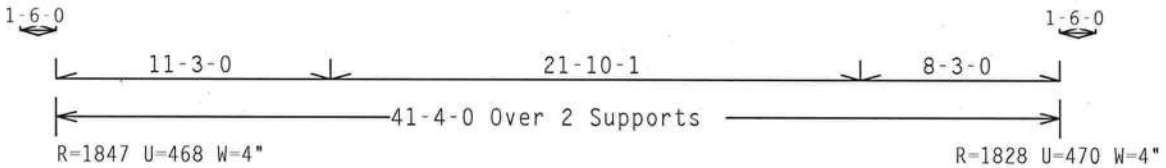
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50247
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067088
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	23647
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

Roof overhang supports 2.00 psf soffit load.

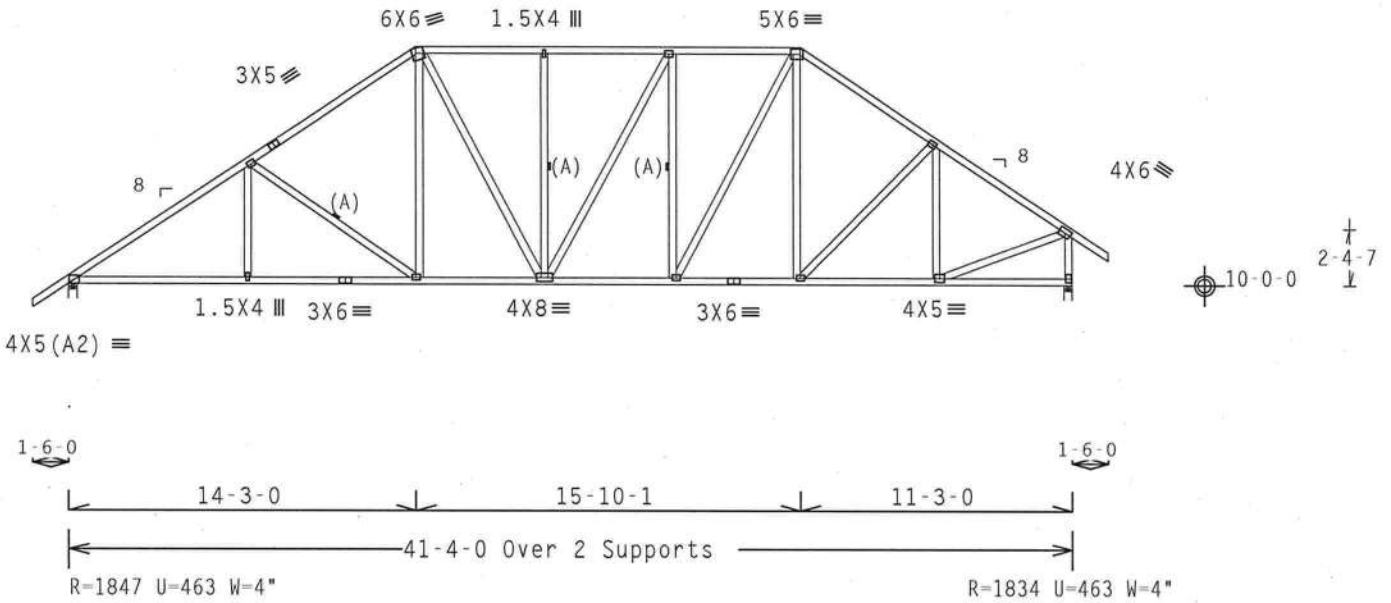
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50248
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067089
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 23642
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - M5)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3
:Lt Wedge 2x8 SP SS:

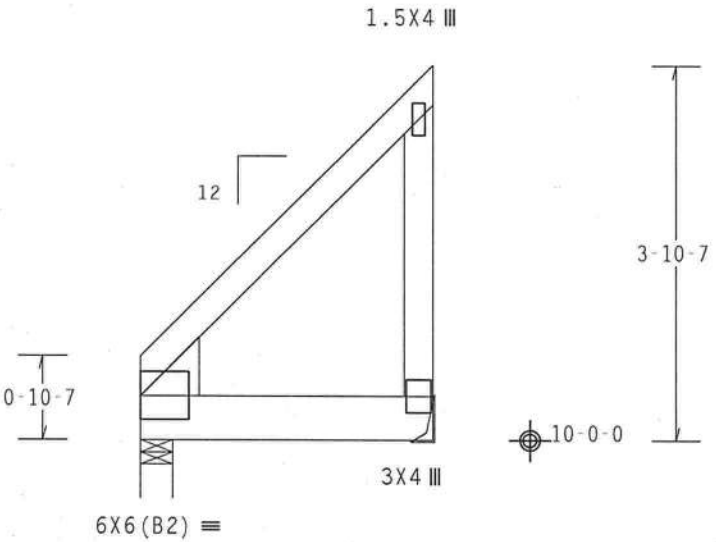
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

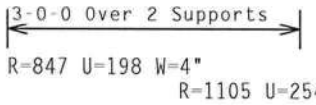
Wind reactions based on MWFRS pressures.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 68 PLF at 0.00 to 68 PLF at 3.00
BC - From 20 PLF at 0.00 to 20 PLF at 3.00
BC - 844 LB Conc. Load at 0.73, 2.73

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible] QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50249
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067090
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 25020
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - M4)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3
:Lt Wedge 2x8 SP SS:

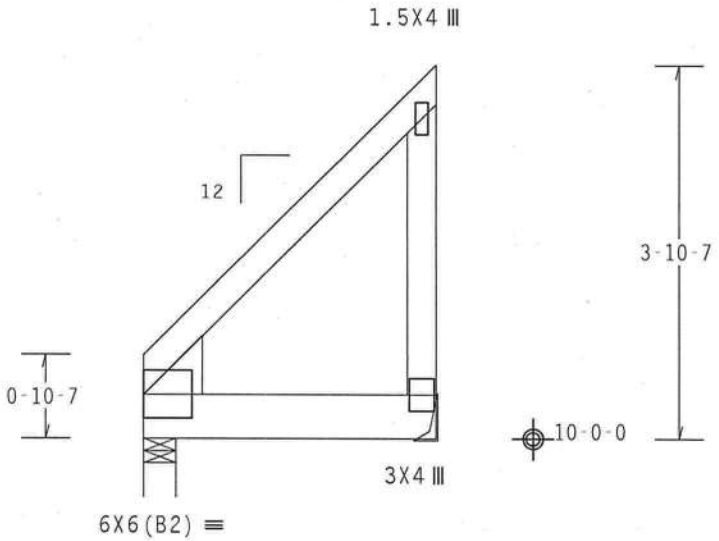
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

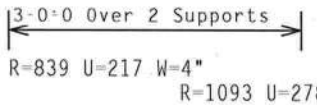
Wind reactions based on MWFRS pressures.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 68 PLF at 0.00 to 68 PLF at 3.00
BC - From 20 PLF at 0.00 to 20 PLF at 3.00
BC - 833 LB Conc. Load at 0.73, 2.73

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50250
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067091
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	25015
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - HJ2)

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

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

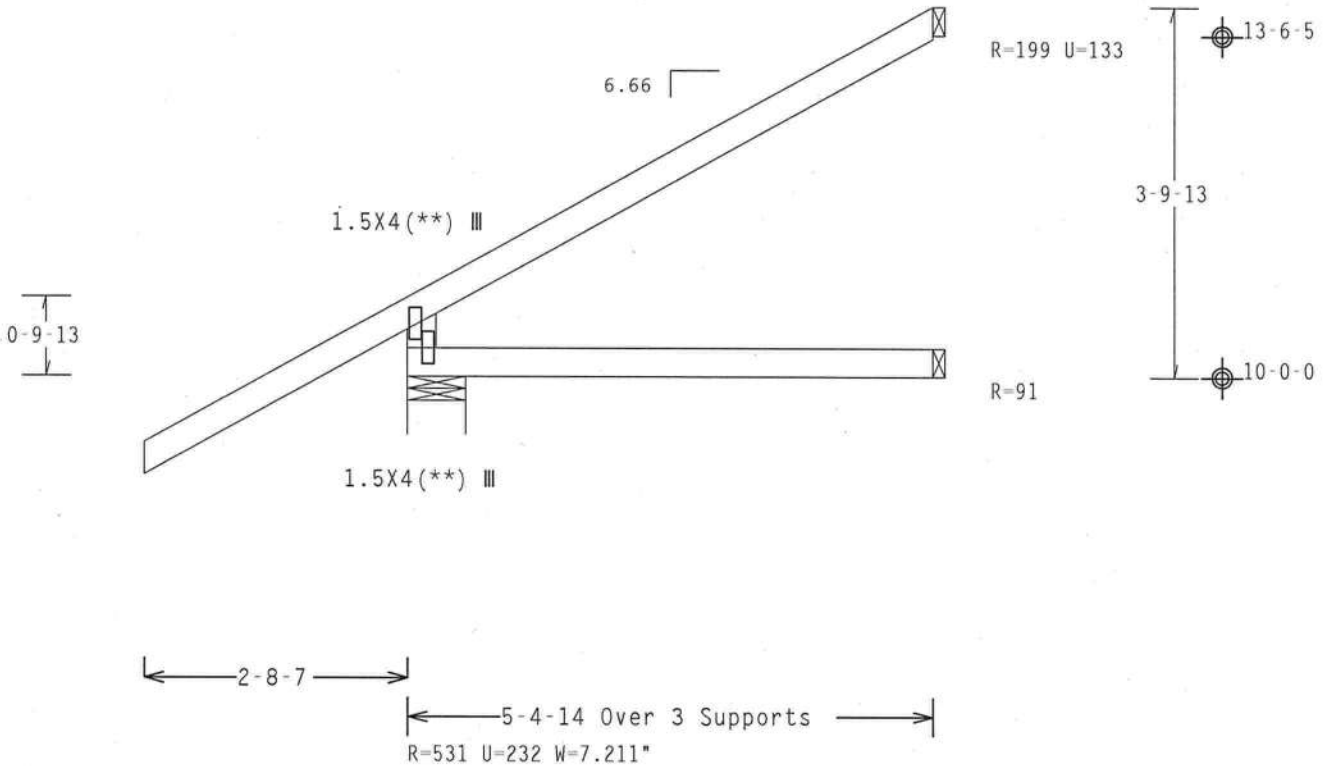
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -2.70 to 63 PLF at 5.41
BC - From 5 PLF at -2.70 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 5.41
TC - 67 LB Conc. Load at 1.87
TC - 78 LB Conc. Load at 4.28
BC - 22 LB Conc. Load at 1.87
BC - 24 LB Conc. Load at 4.28

Roof overhang supports 2.00 psf soffit load.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50251
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067092
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78406
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

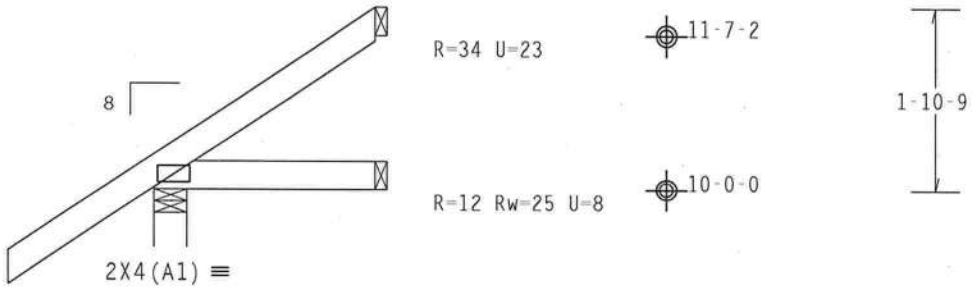
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

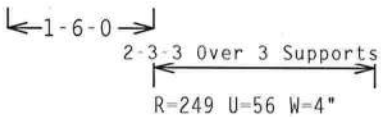
Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12[illegible]

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 07 '08

TC LL	20.0 PSF	REF R8228- 50252
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067093
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 24904
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H3D)

THIS WAS PREPARED FROM CUSTOMER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B1 2x6 SP #2:
Webs 2x4 SP #3

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

TC - From	64 PLF	at	-1.50	to	64 PLF	at 6.37
TC - From	64 PLF	at	6.37	to	64 PLF	at 12.37
TC - From	64 PLF	at	12.37	to	64 PLF	at 21.19
TC - From	64 PLF	at	21.19	to	64 PLF	at 29.14
TC - From	64 PLF	at	29.14	to	64 PLF	at 45.83
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 44.33
BC - From	5 PLF	at	44.33	to	5 PLF	at 45.83

TC - 334 LB Conc. Load at 6.37
TC - 997 LB Conc. Load at 8.44
BC - 152 LB Conc. Load at 6.37
BC - 997 LB Conc. Load at 8.44

2 COMPLETE TRUSSES REQUIRED

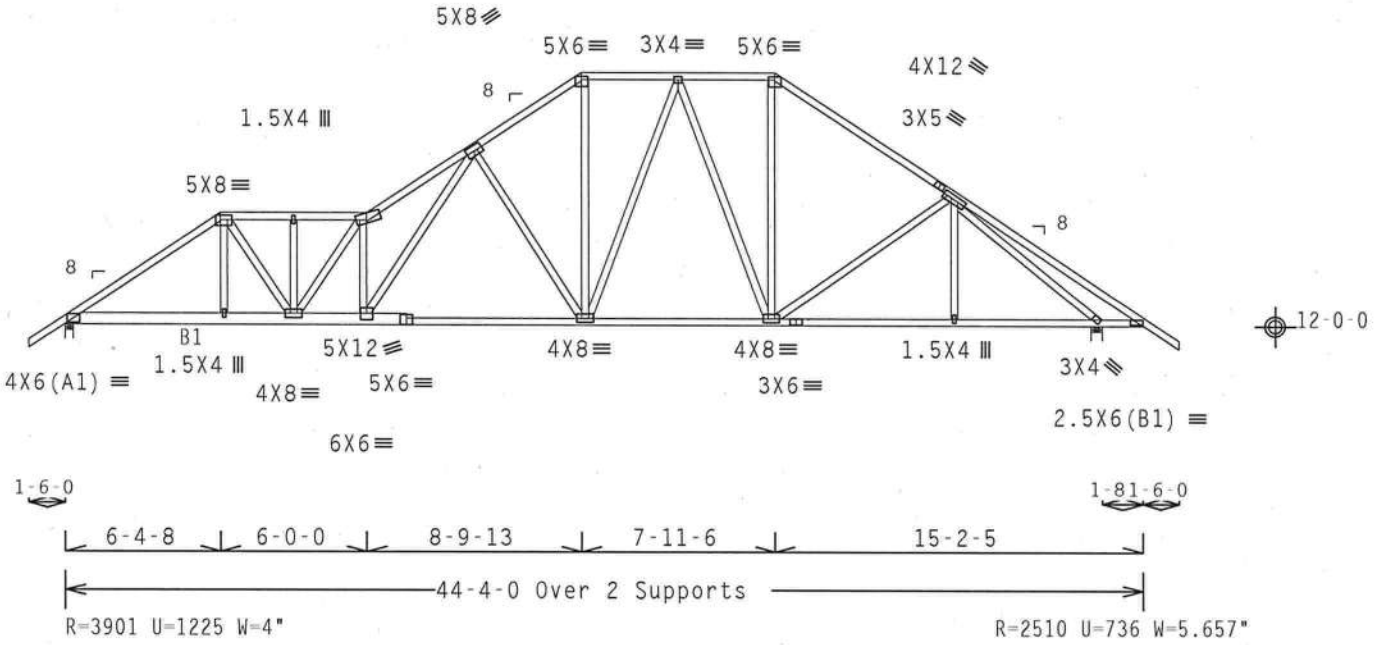
Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.043 [illegible] QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50253
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067098
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78509
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

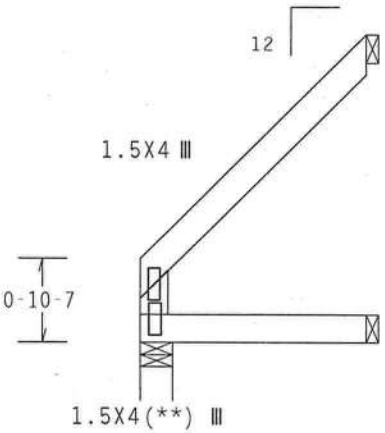
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

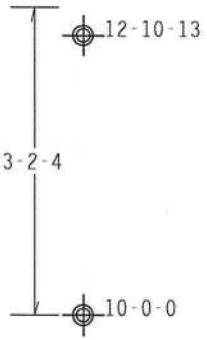
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

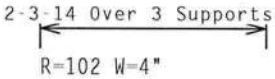
Wind reactions based on MWFRS pressures.

R=78 U=70





R=24 Rw=25 U=7



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123[illegible]6

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] '07 '08

TC LL	20.0 PSF	REF R8228- 50254
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067094
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24895
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

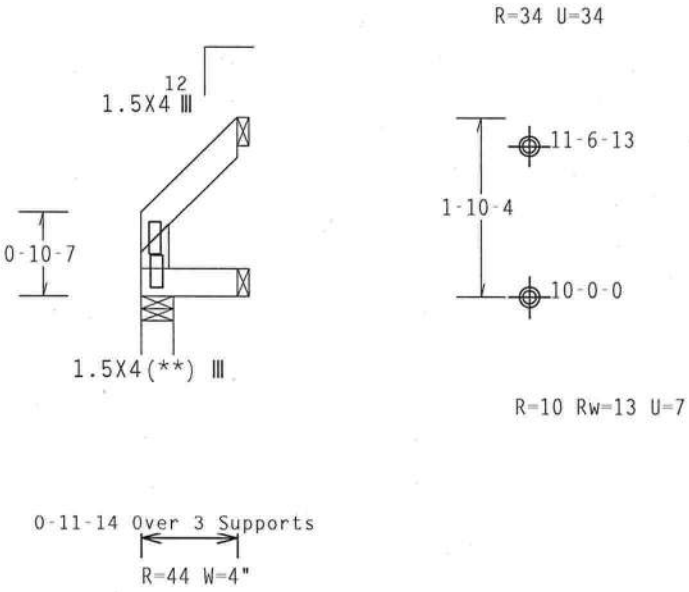
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50255
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067095
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	24900
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - HJ5)

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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

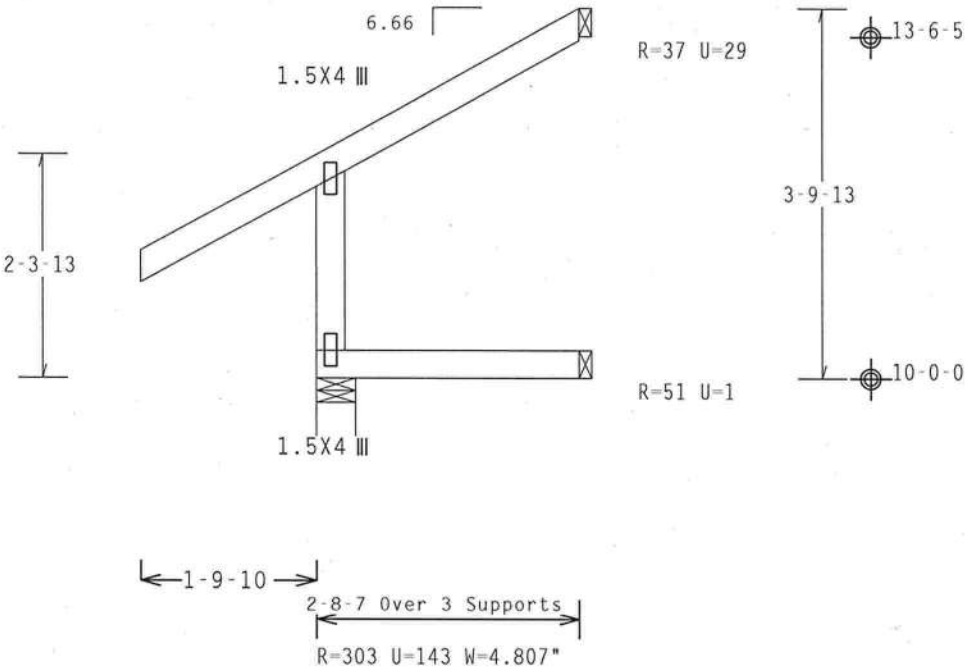
Wind reactions based on MWFRS pressures.

Left end vertical not exposed to wind pressure.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -1.80 to 63 PLF at 2.70
BC - From 5 PLF at -1.80 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 2.70
TC - 12 LB Conc. Load at 0.96
BC - 34 LB Conc. Load at 0.96

Roof overhang supports 2.00 psf soffit load.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50256
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067096
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24955
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J15)

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

Roof overhang supports 2.00 psf soffit load.

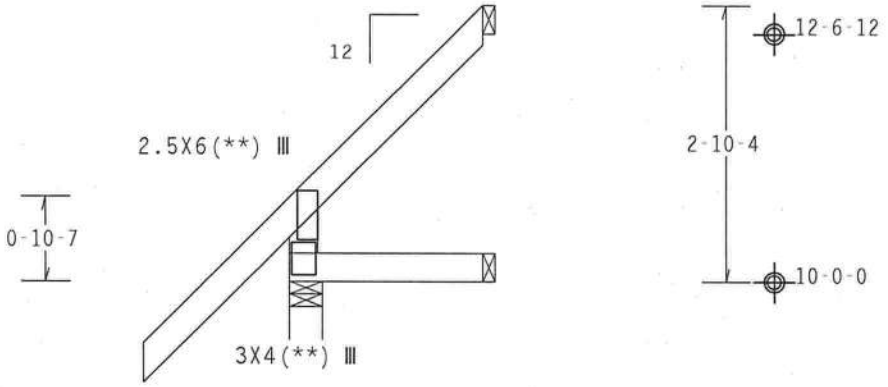
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

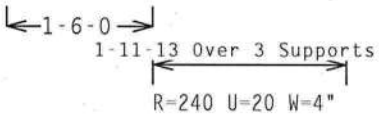
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

R=12 Rw=35 U=34



R=34 Rw=45 U=21



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50257
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067097
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN-	24950
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J7)

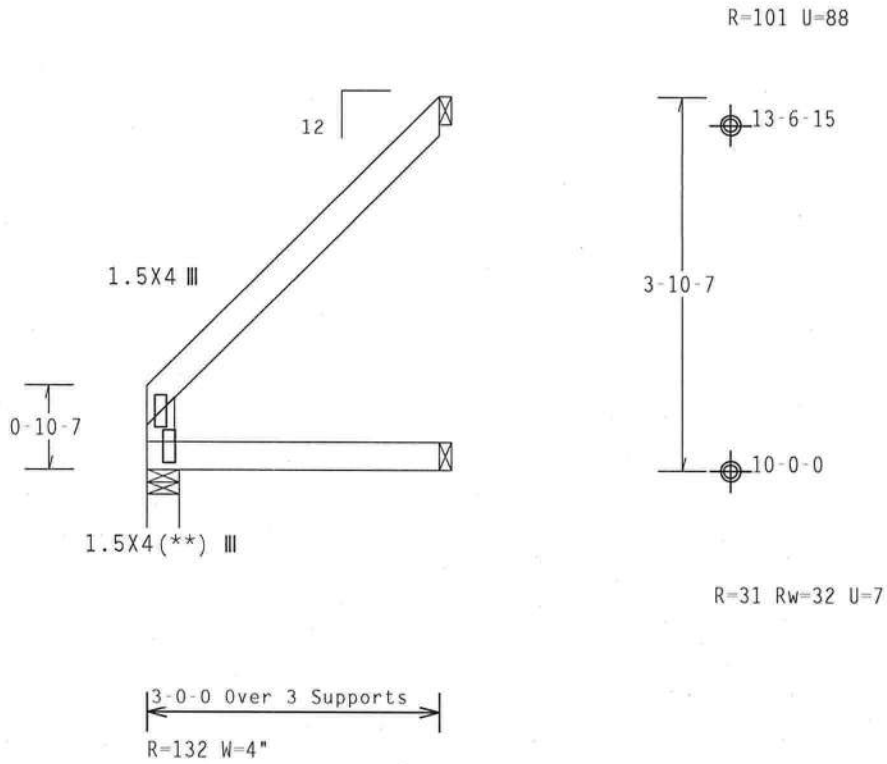
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.042

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

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FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50258
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067098
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78412
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H3F)

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 5.25
TC - From 64 PLF at 5.25 to 64 PLF at 19.75
TC - From 64 PLF at 19.75 to 64 PLF at 25.00
BC - From 20 PLF at 0.00 to 20 PLF at 25.00
TC - 191 LB Conc. Load at 5.25, 19.75
TC - 65 LB Conc. Load at 7.31, 9.31, 11.31, 12.50, 13.69 15.69, 17.69
BC - 146 LB Conc. Load at 5.25, 19.75
BC - 40 LB Conc. Load at 7.31, 9.31, 11.31, 12.50, 13.69 15.69, 17.69

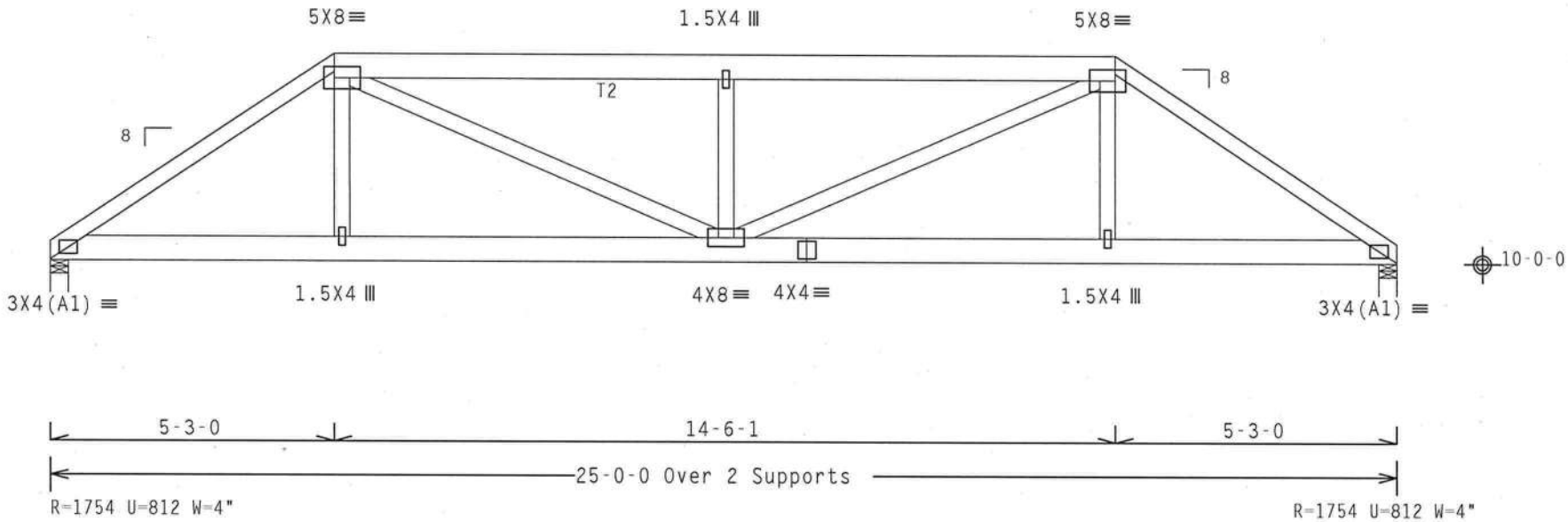
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50259
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067099
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23669
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

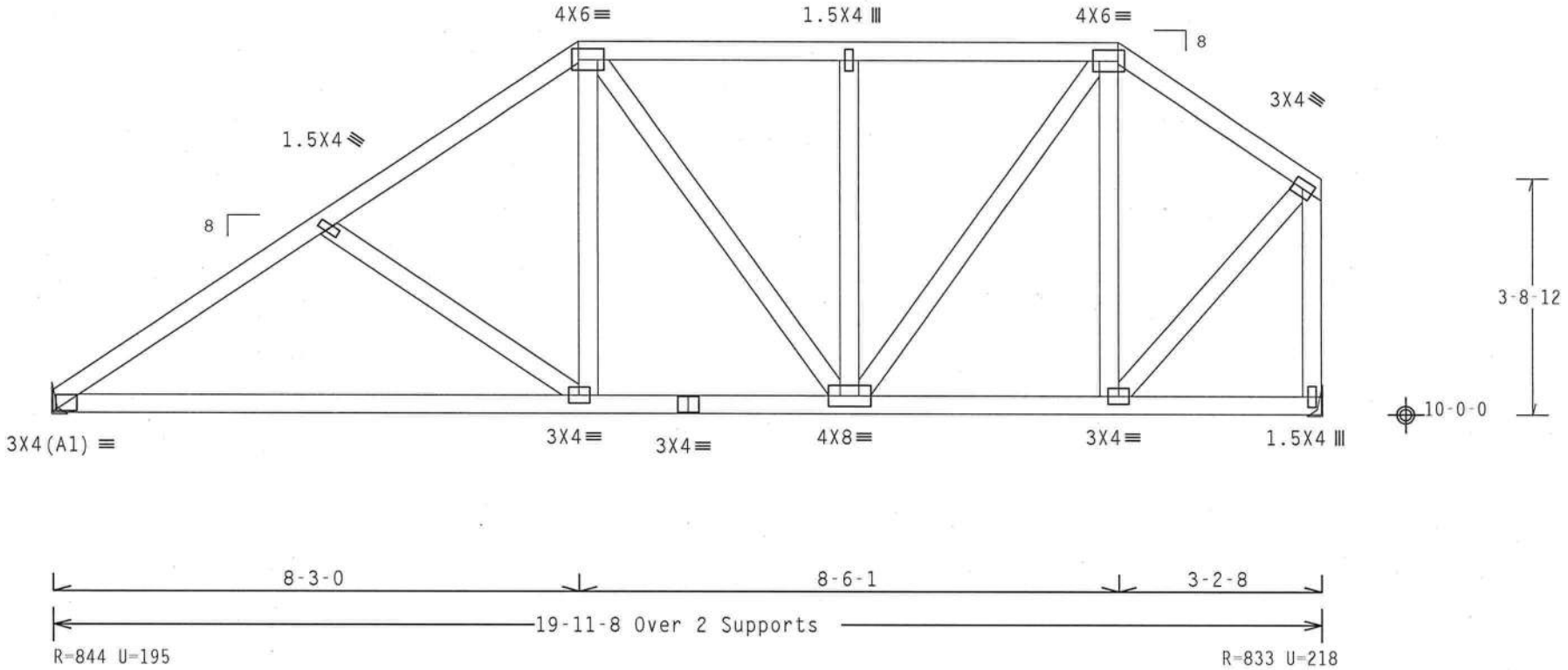
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Mar 07 '08

TC LL	20.0 PSF	REF R8228- 50260
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067100
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 24993
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H7F)

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

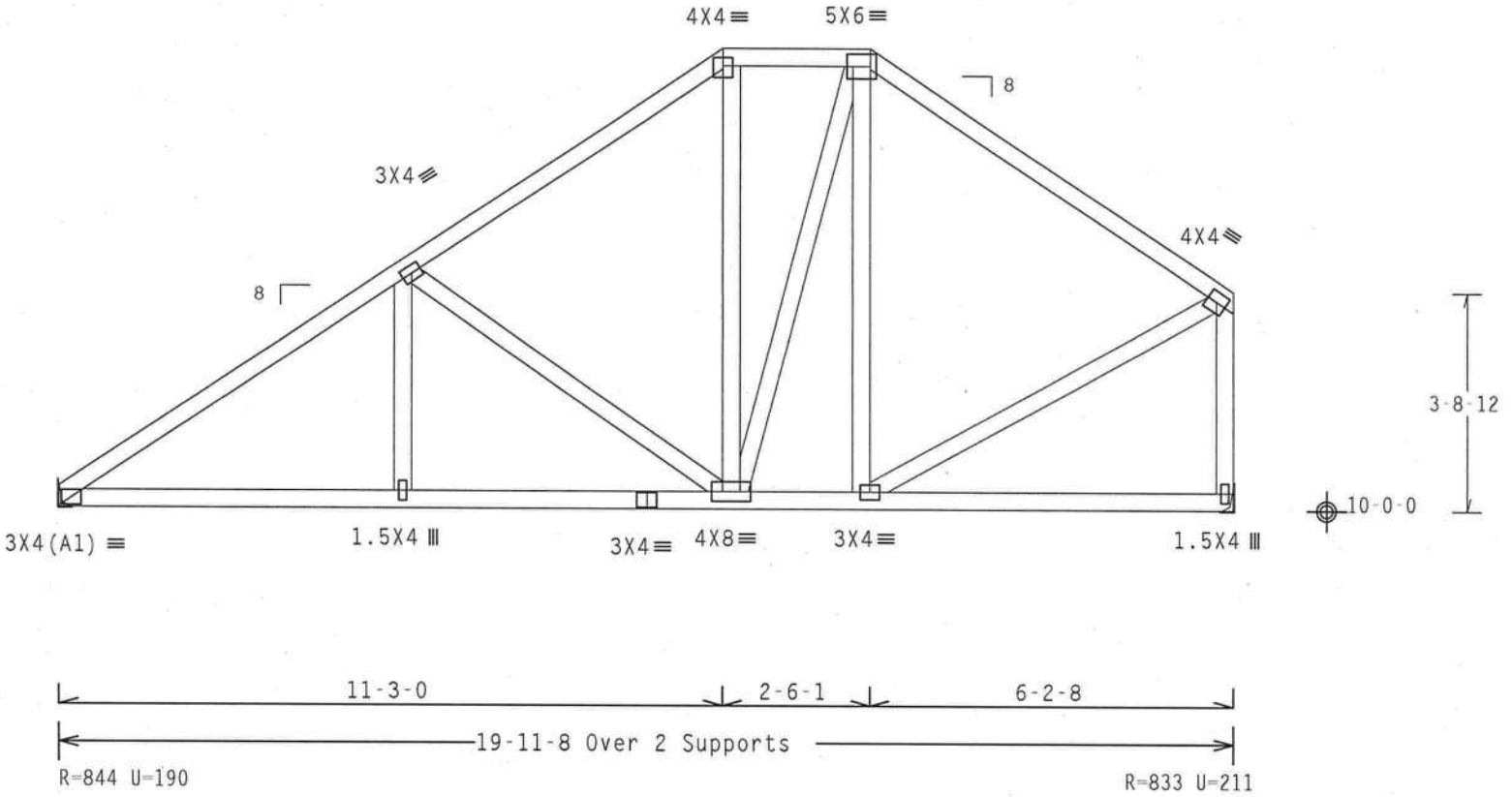
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.16

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No.66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50261
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067101
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 25000
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

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

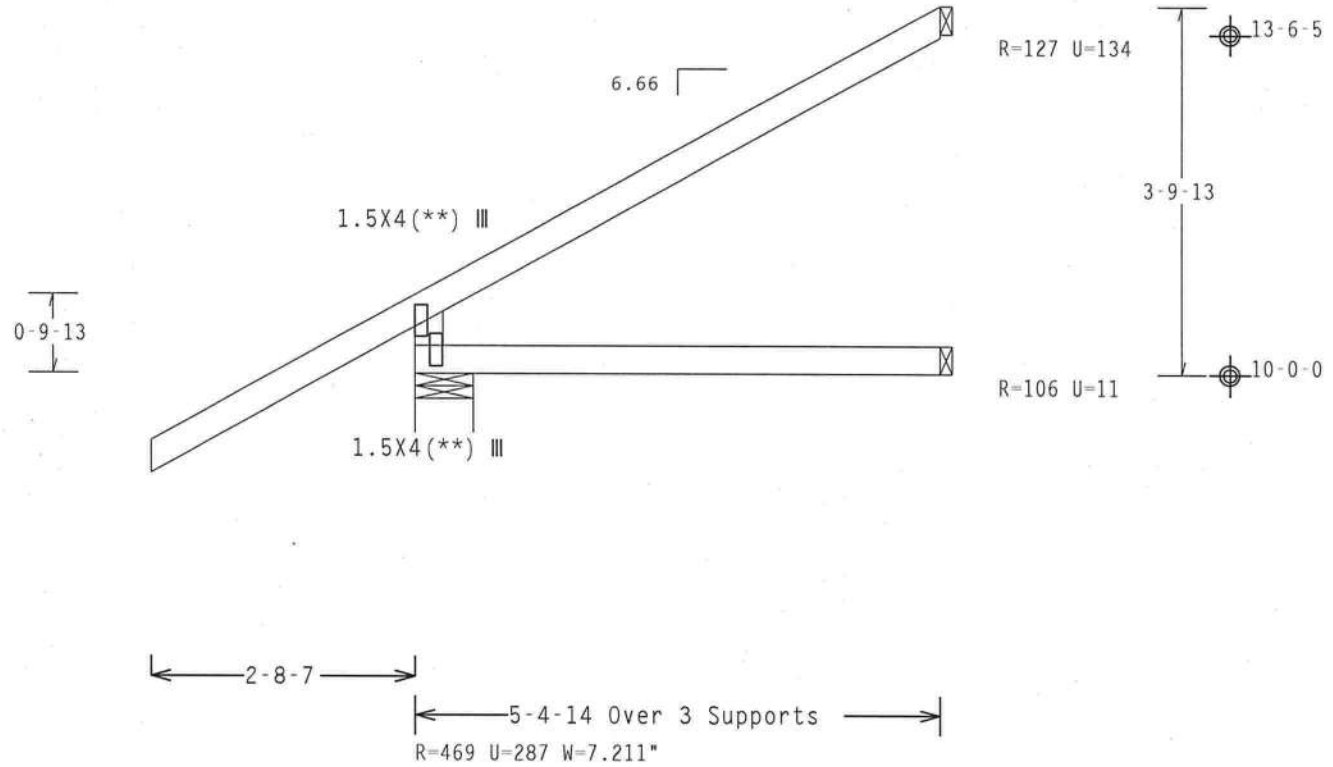
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at -2.70 to 63 PLF at 5.41
BC - From 5 PLF at -2.70 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 5.41
TC - 34 LB Conc. Load at 1.87
TC - -79 LB Conc. Load at 1.87
TC - 31 LB Conc. Load at 4.28
BC - 50 LB Conc. Load at 1.87
BC - 36 LB Conc. Load at 4.28

Roof overhang supports 2.00 psf soffit load.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50262
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067102
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24946
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J3)

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

Roof overhang supports 2.00 psf soffit load.

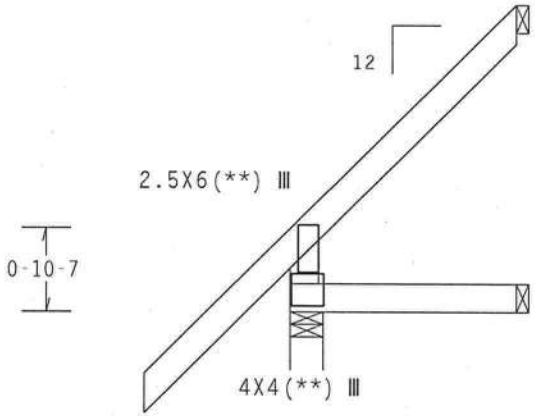
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

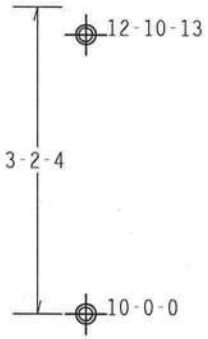
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

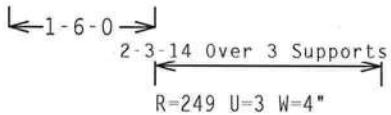
Wind reactions based on MWFRS pressures.

R=31 Rw=58 U=47





R=36 Rw=44 U=19



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50263
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067103
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24872
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H5D)

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

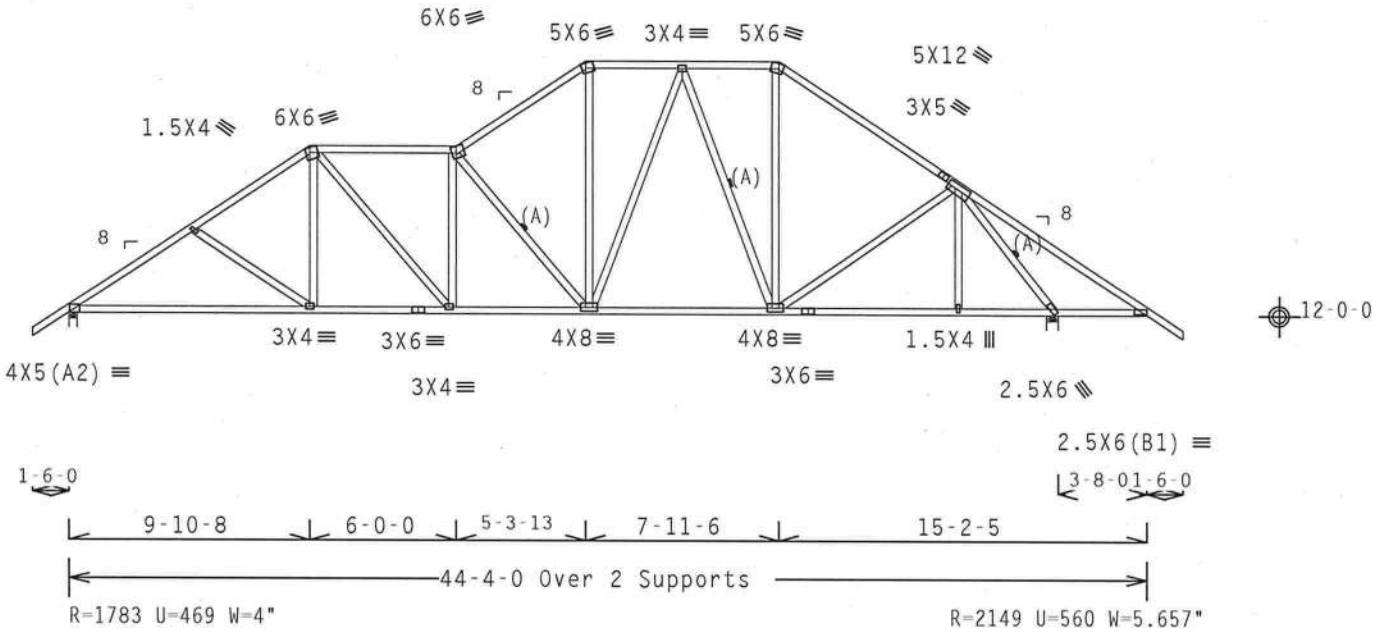
Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50264
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067094
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 78513
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

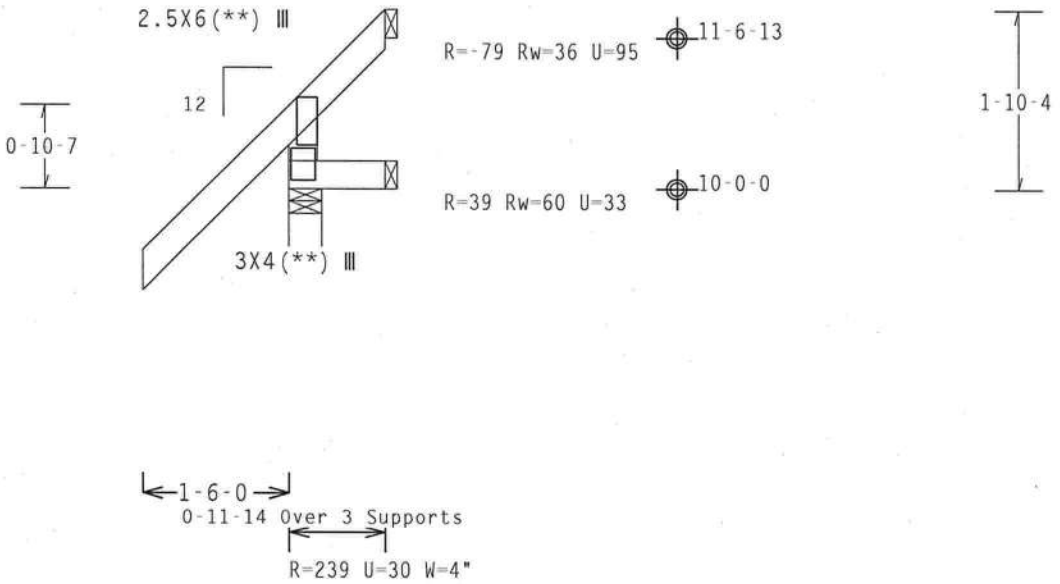
Roof overhang supports 2.00 psf soffit load.

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

(**) 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, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

07 '08

TC LL	20.0 PSF	REF R8228- 50265
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067104
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24877
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - KGE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :M1, M7 2x4 SP #2 Dense:

Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 4.00 PSF. Top chord must not be cut or notched.

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

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

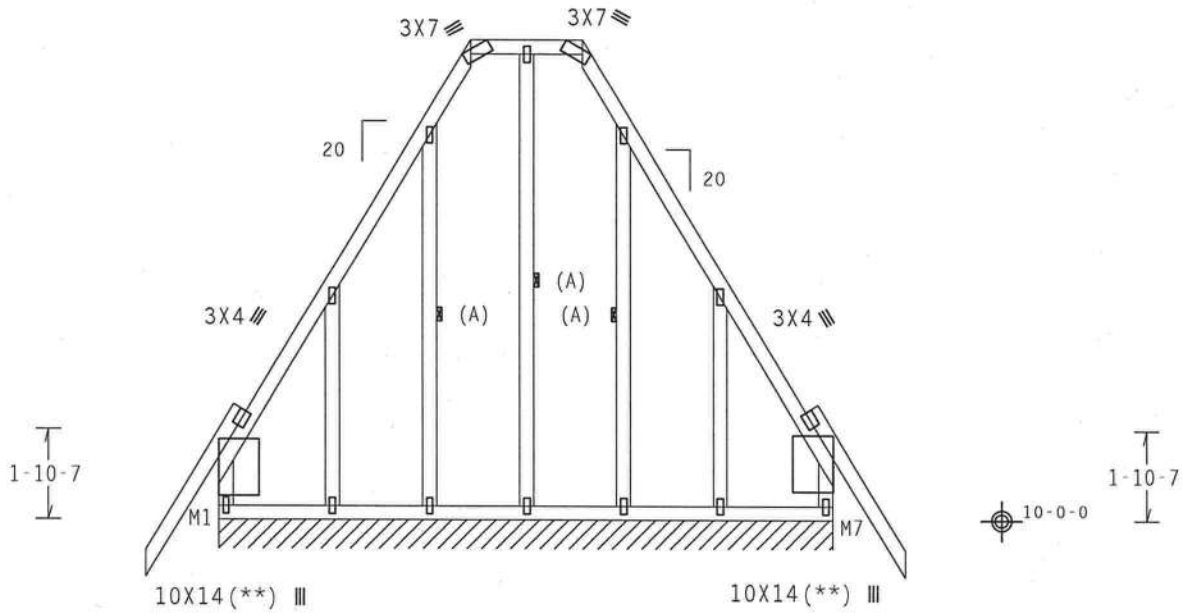
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

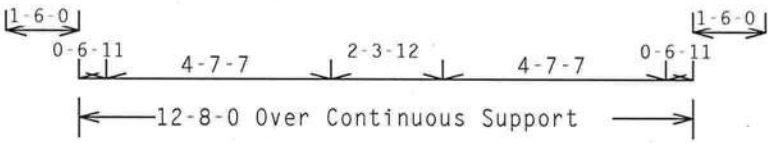
See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

(A) Continuous lateral bracing equally spaced on member.

Fasten rated sheathing to one face of this frame.



R=145 PLF U=54 PLF W=12-8-0



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.37.05 QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50266
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067105
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 15619 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - EJ3)

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

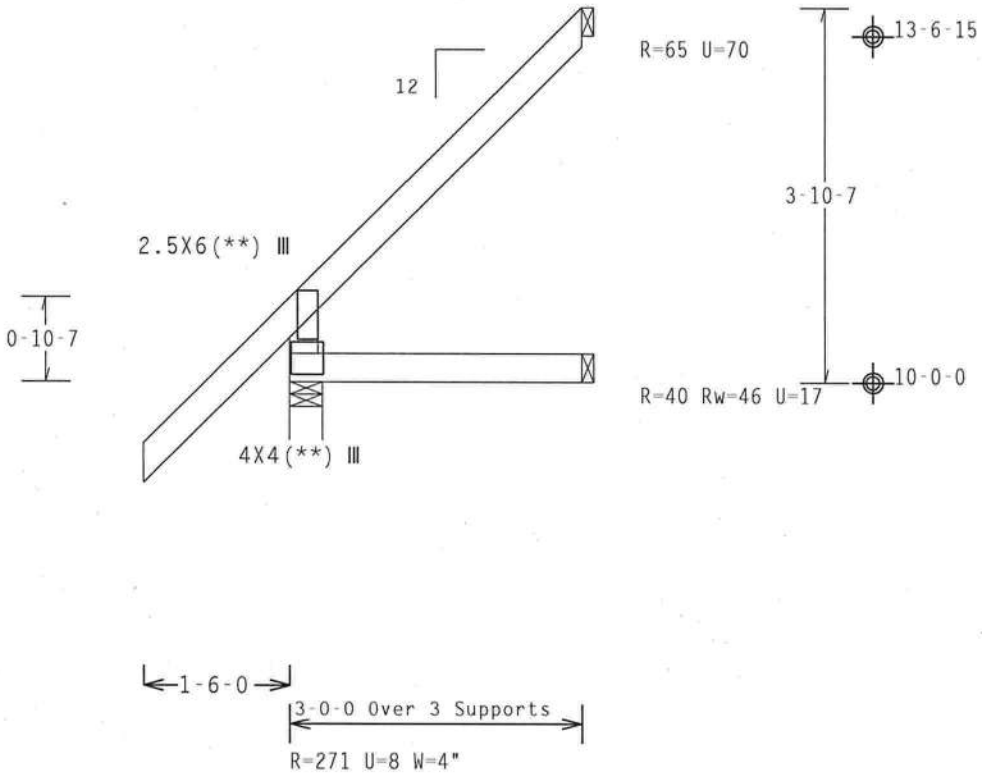
Roof overhang supports 2.00 psf soffit load.

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

(**) 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, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50267
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067106
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24941
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - KP1)

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

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

110 mph wind, 21.46 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=1.2 psf.

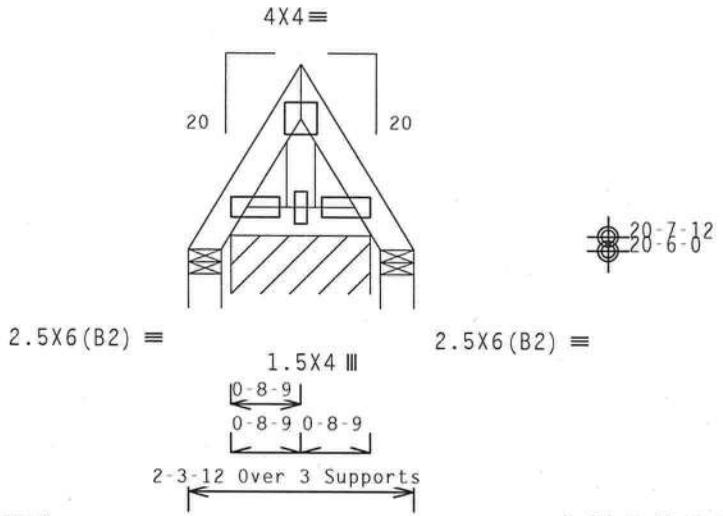
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.052 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50268
TC DL	10.0 PSF	DATE	03/07/08
BC DL	2.0 PSF	DRW	HCUSR8228 08067107
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	32.0 PSF	SEQN-	15545 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B1 2x6 SP #2:
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

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

TC - From	64 PLF	at	-1.50	to	64 PLF	at	6.37
TC - From	64 PLF	at	6.37	to	64 PLF	at	12.37
TC - From	64 PLF	at	12.37	to	64 PLF	at	21.19
TC - From	64 PLF	at	21.19	to	64 PLF	at	29.14
TC - From	64 PLF	at	29.14	to	64 PLF	at	44.33
BC - From	5 PLF	at	-1.50	to	5 PLF	at	0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at	12.67
BC - From	20 PLF	at	12.67	to	20 PLF	at	44.33

TC - 334 LB Conc. Load at 6.37
TC - 715 LB Conc. Load at 8.44
BC - 152 LB Conc. Load at 6.37
BC - 715 LB Conc. Load at 8.44

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

2 COMPLETE TRUSSES REQUIRED

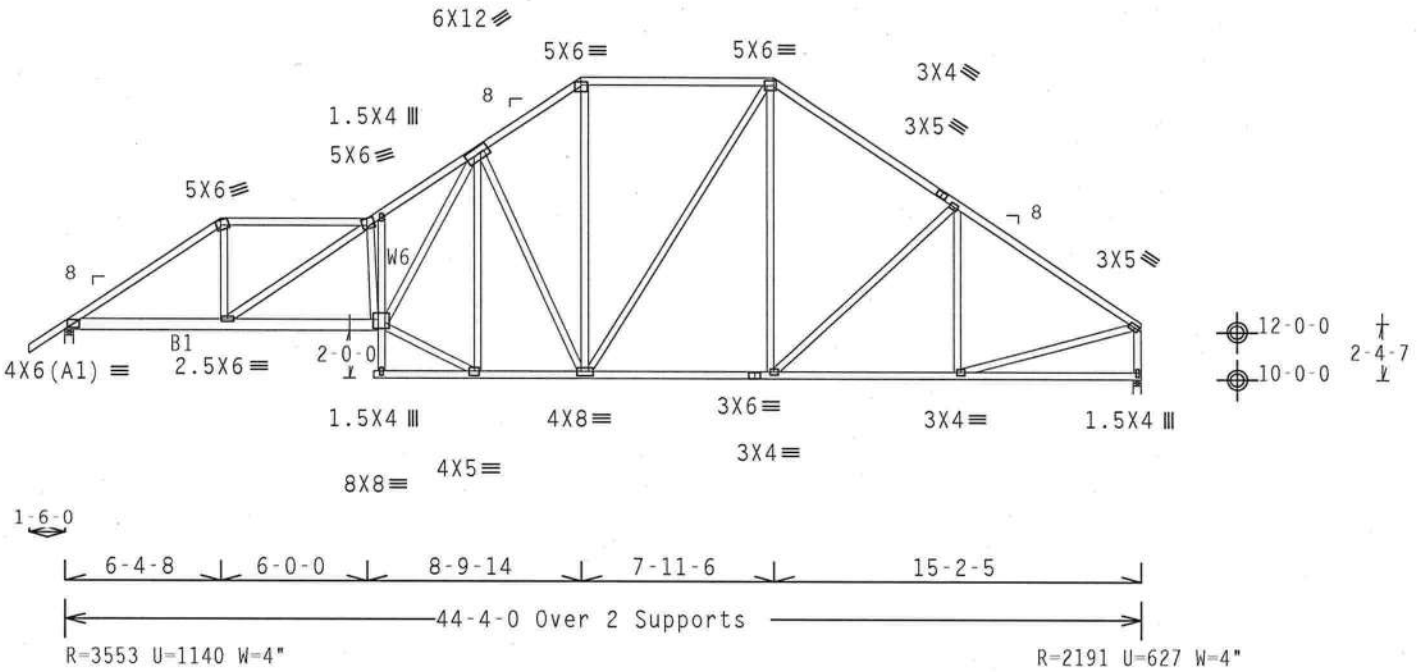
Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
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DOUGLAS FLEMING LICENSE No 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50269
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067108
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	23637
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

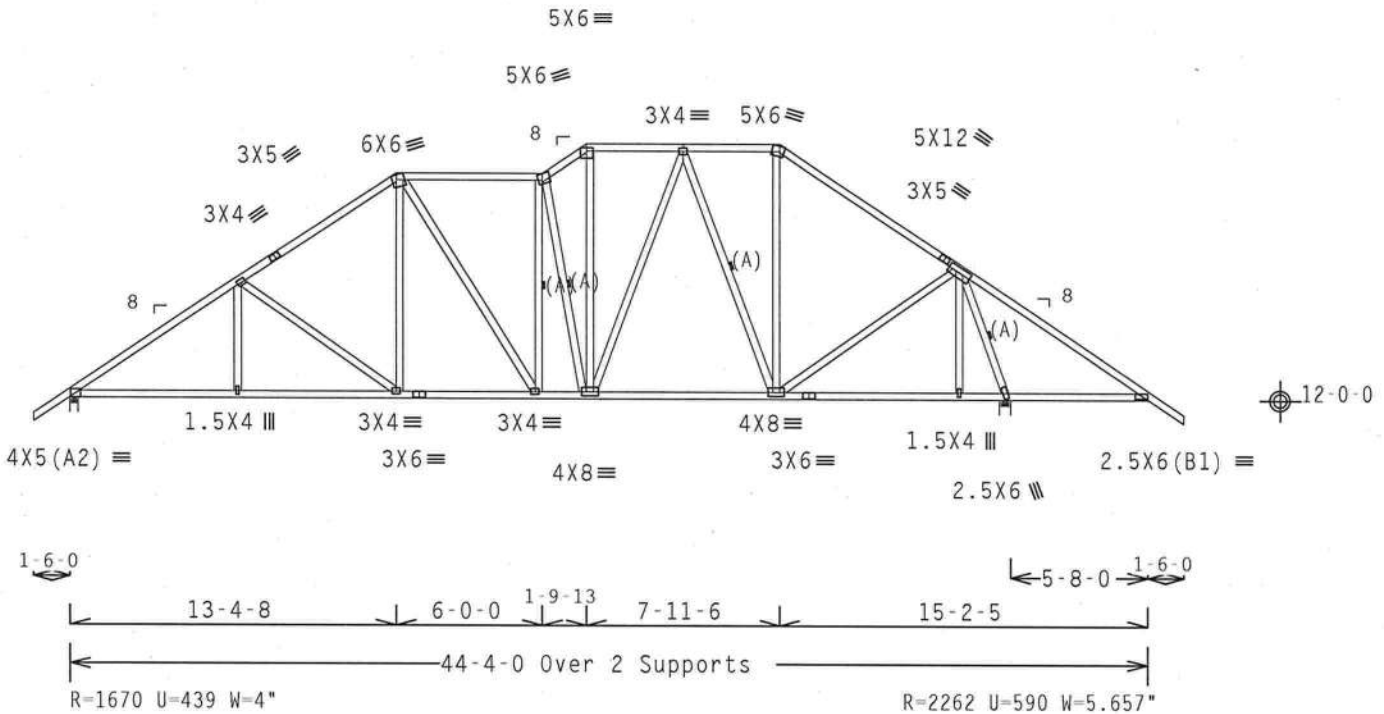
Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50270
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067095
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	78517
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H7B)

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 11.25
TC - From 64 PLF at 11.25 to 64 PLF at 35.63
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 35.63
TC - 120 LB Conc. Load at 35.63

Wind reactions based on MWFRS pressures.

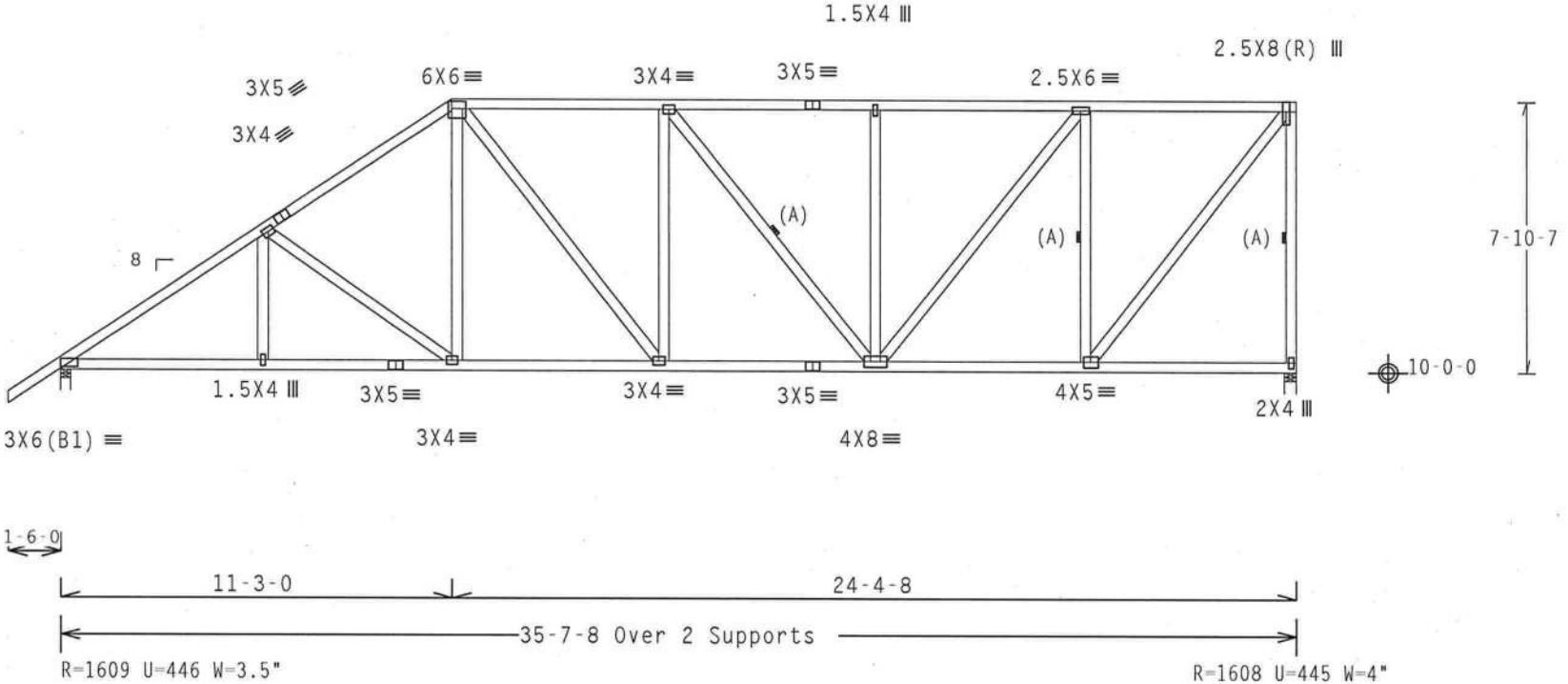
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

PLT TYP. Wave

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

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ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50271
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067113
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	23772
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - CC)

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

End verticals not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

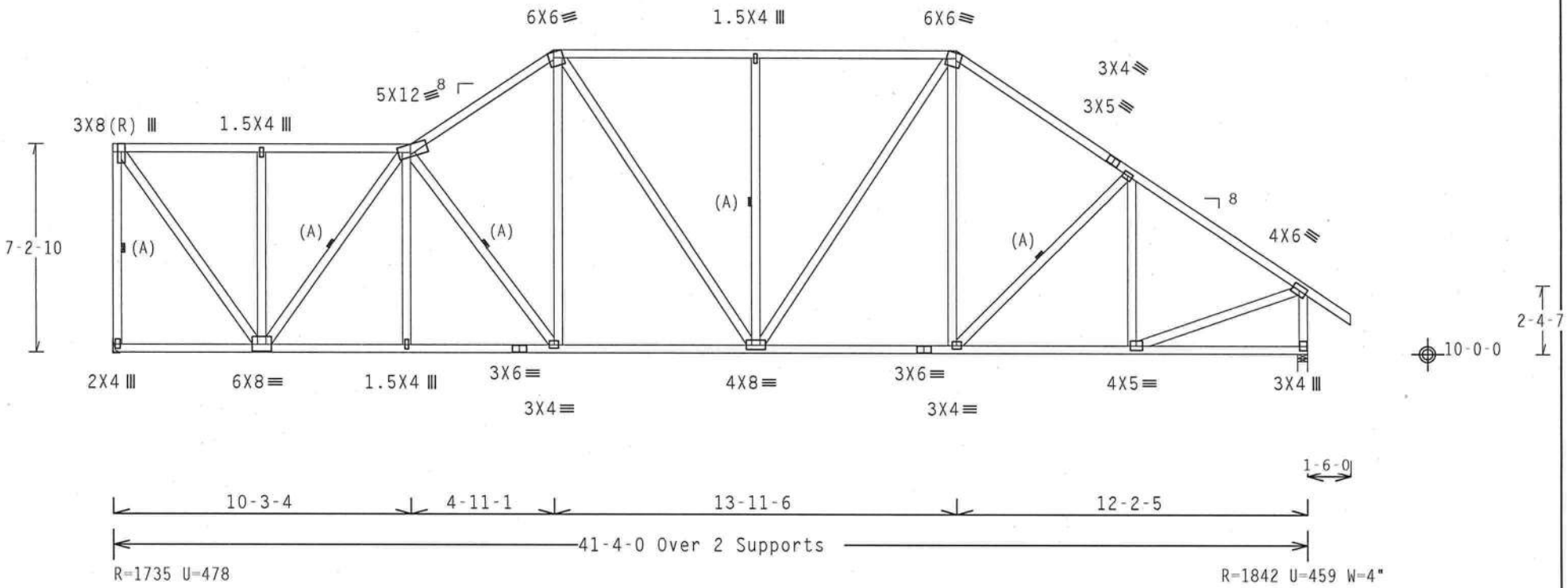
(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 15.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.043 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50272
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067115
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78496
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - C1)

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

End verticals not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

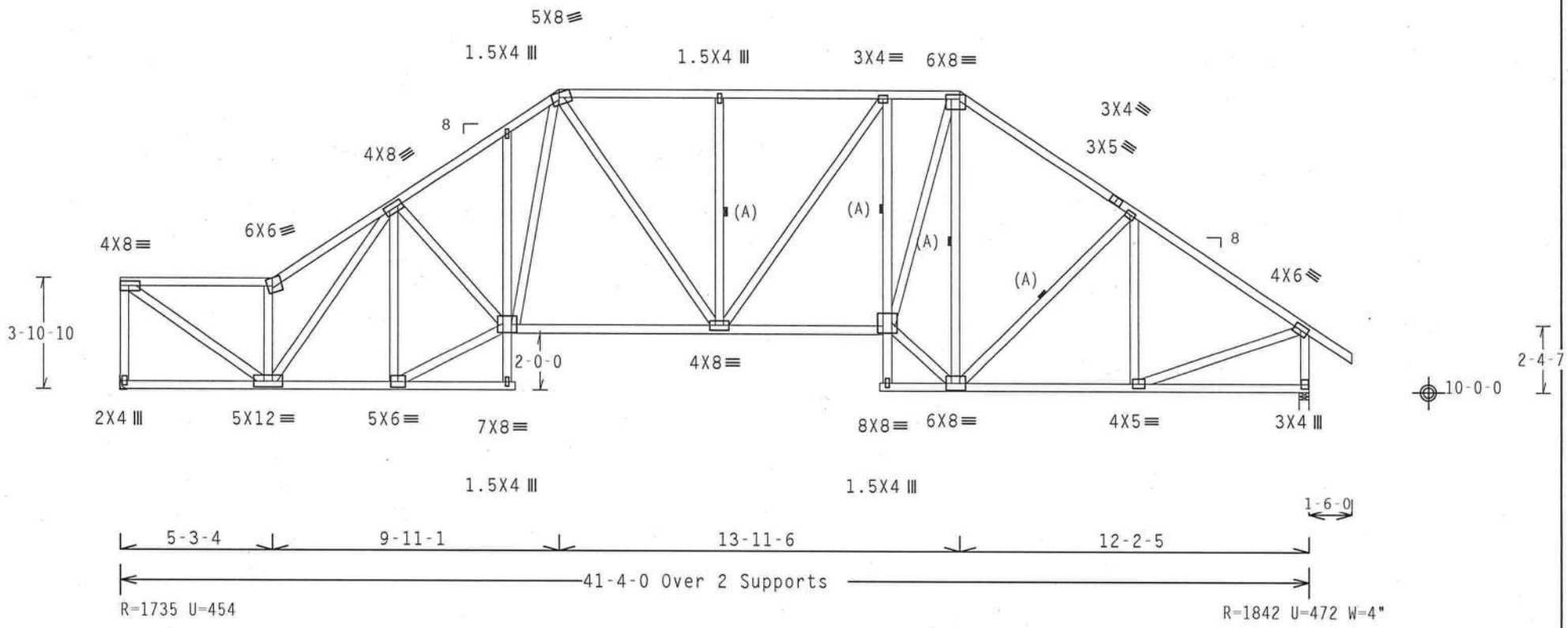
(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 15.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50273
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067116
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78501
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

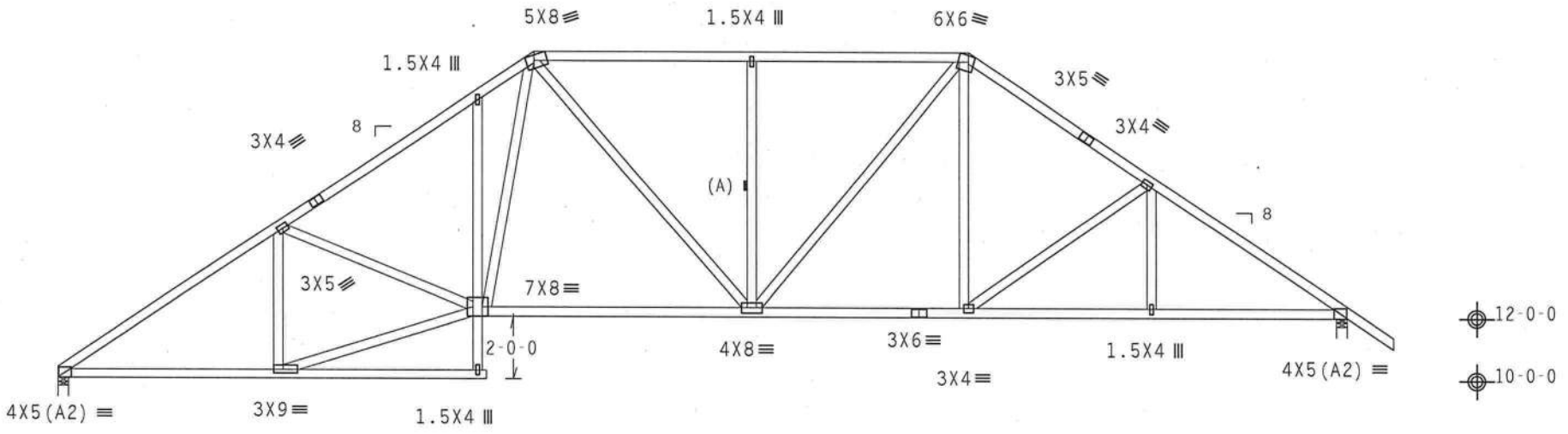
Roof overhang supports 2.00 psf soffit load.

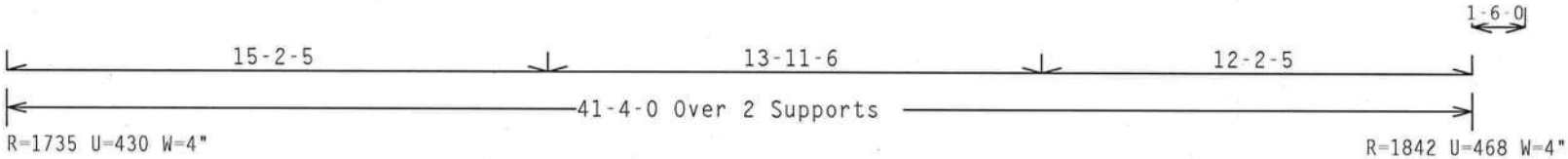
(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 15.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF	R8228- 50274
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067117
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	23474
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

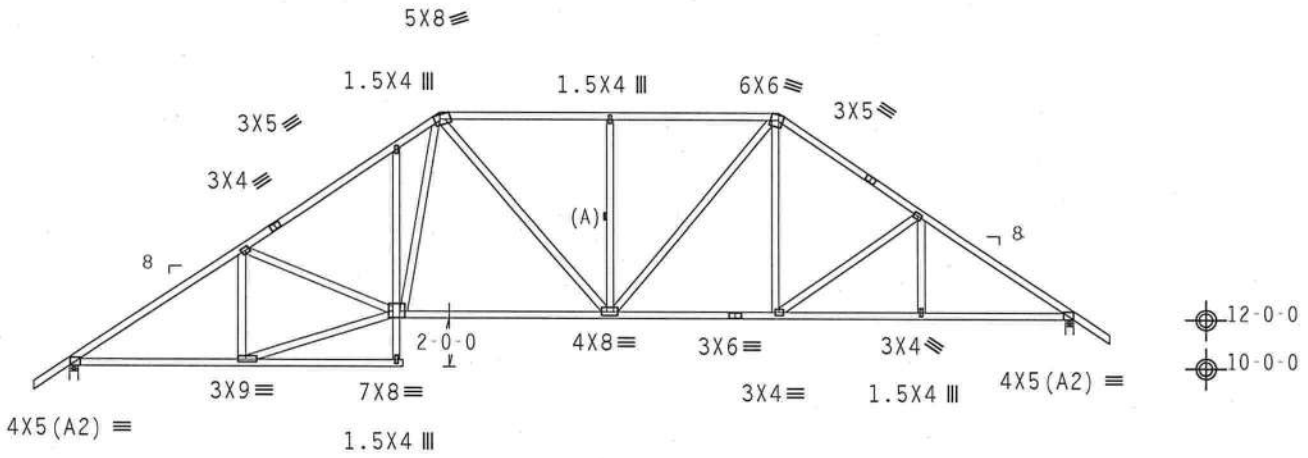
Roof overhang supports 2.00 psf soffit load.

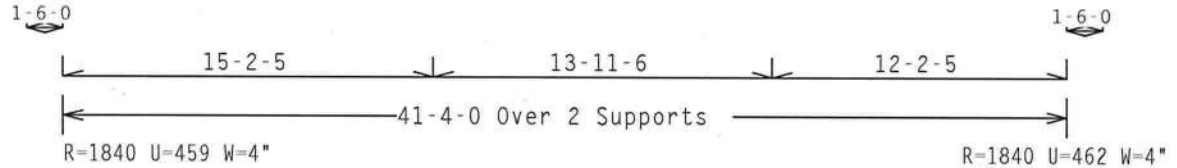
(A) Continuous lateral bracing equally spaced on member.

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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50275
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067118
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	23481
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3
:Lt Wedge 2x8 SP SS:

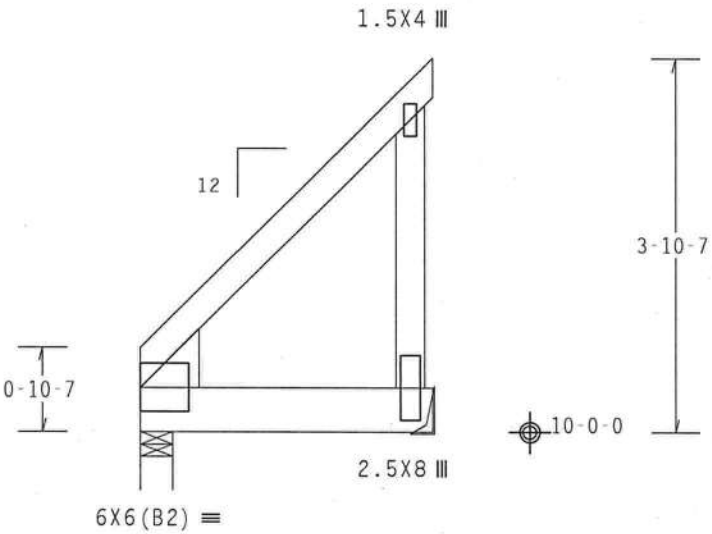
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

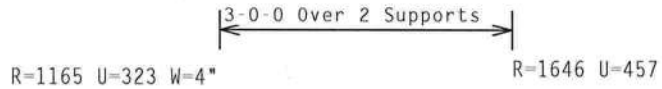
Wind reactions based on MWFRS pressures.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 68 PLF at 0.00 to 68 PLF at 3.00
BC - From 20 PLF at 0.00 to 20 PLF at 3.00
BC - 1273 LB Conc. Load at 0.73, 2.73

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.043 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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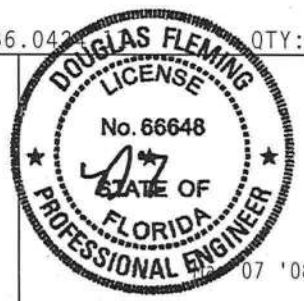


TC LL	20.0 PSF	REF	R8228- 50276
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067119
BC LL	0.0 PSF		HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN-	78356
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - HJ3)

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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

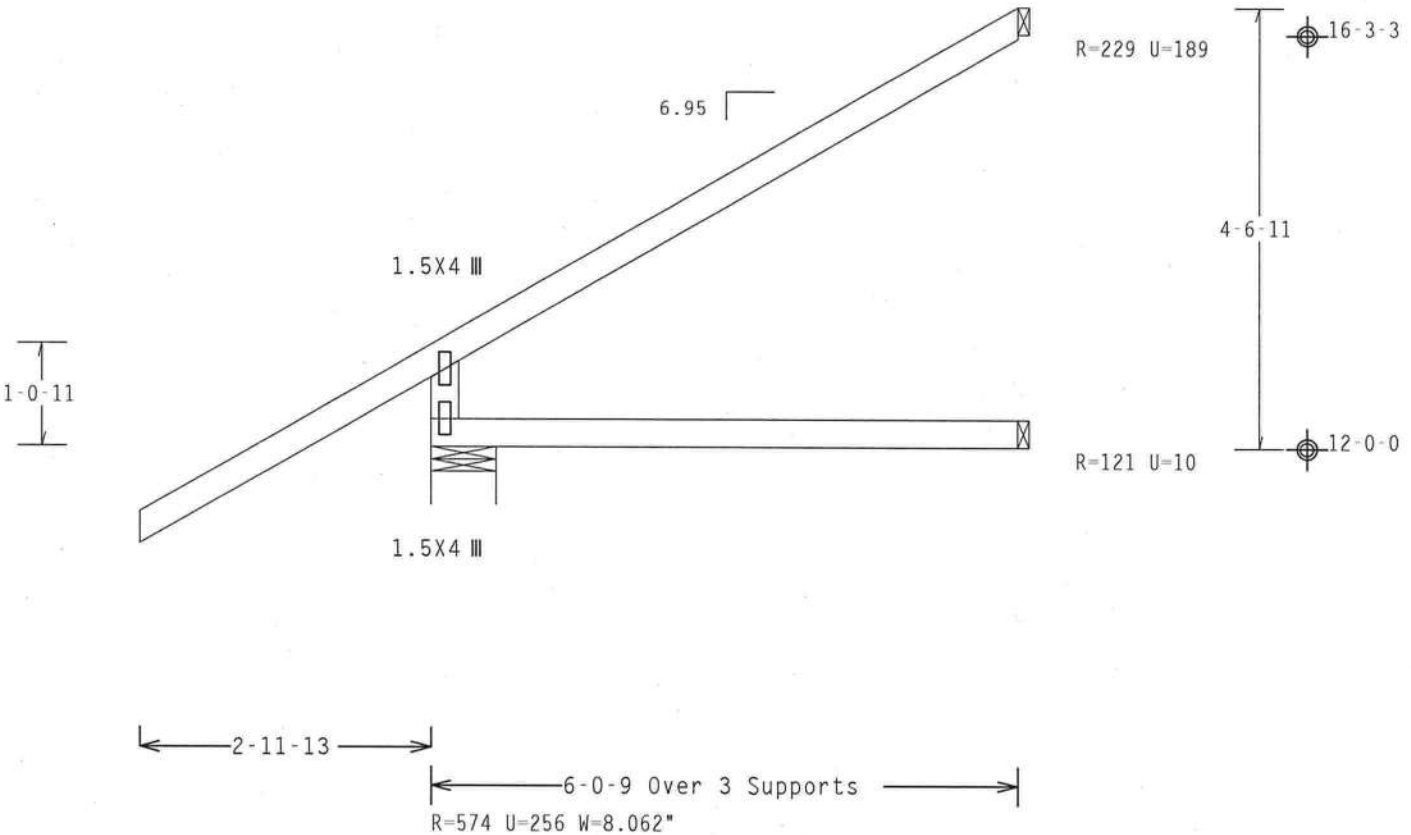
Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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

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

TC -	From	63 PLF	at	-2.98	to	63 PLF	at 6.05
BC -	From	5 PLF	at	-2.98	to	5 PLF	at 0.00
BC -	From	20 PLF	at	0.00	to	20 PLF	at 6.05
TC -	60 LB Conc. Load		at	2.08			
TC -	-19 LB Conc. Load		at	3.24			
TC -	94 LB Conc. Load		at	5.54			
BC -	22 LB Conc. Load		at	2.08			
BC -	34 LB Conc. Load		at	3.24			
BC -	28 LB Conc. Load		at	5.54			



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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50277
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067120
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	24933
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H9B)

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 14.25
TC - From 64 PLF at 14.25 to 64 PLF at 35.63
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 35.63
TC - 120 LB Conc. Load at 35.63

Wind reactions based on MWFRS pressures.

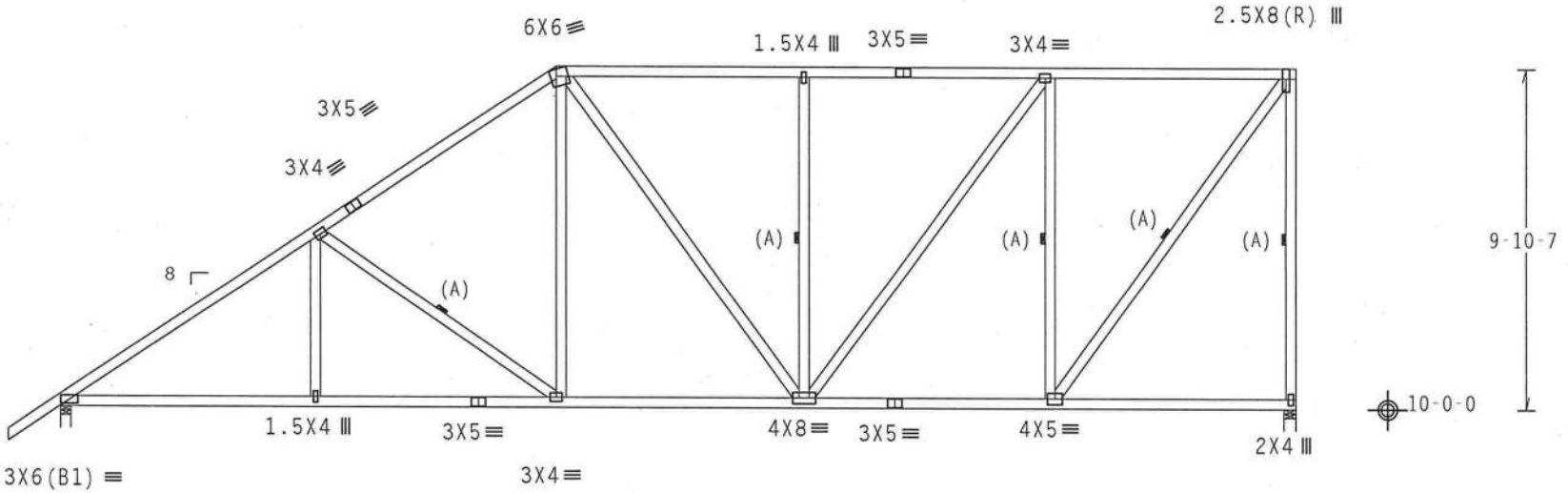
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

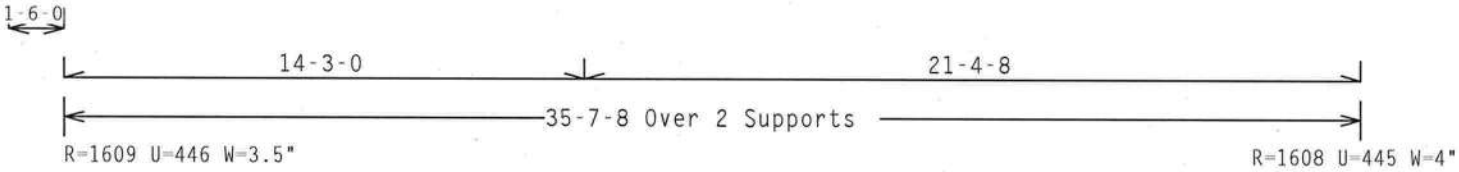
Right end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 248 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, 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.
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50278
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067121
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23768
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H9D)

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

Roof overhang supports 2.00 psf soffit load.

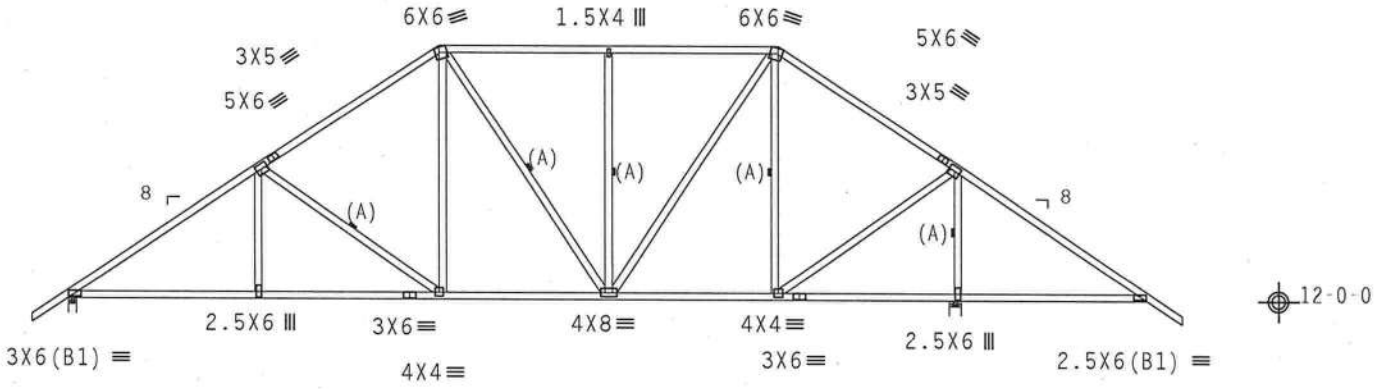
(A) Continuous lateral bracing equally spaced on member.

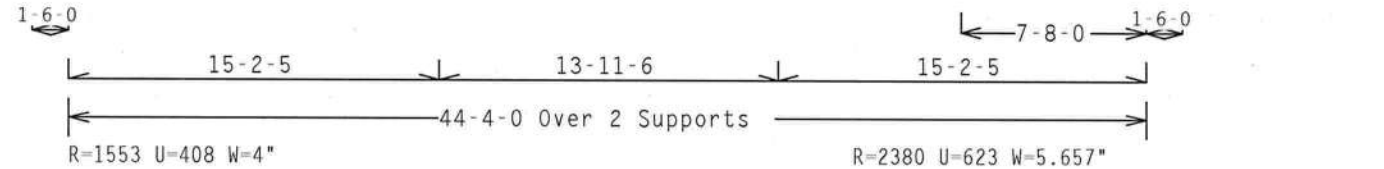
NOTE:
TRUSS MAY EXHIBIT UNDESIREABLE DEFLECTION
UNDER FULL DESIGN LOAD, AS THE LONG TERM EFFECTS
OF CREEP HAVE NOT BEEN CONSIDERED FOR THIS DESIGN

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50279
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067096
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 78523
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 17.25
TC - From 64 PLF at 17.25 to 64 PLF at 35.63
BC - From 20 PLF at 0.00 to 20 PLF at 35.63
TC - 120 LB Conc. Load at 35.63

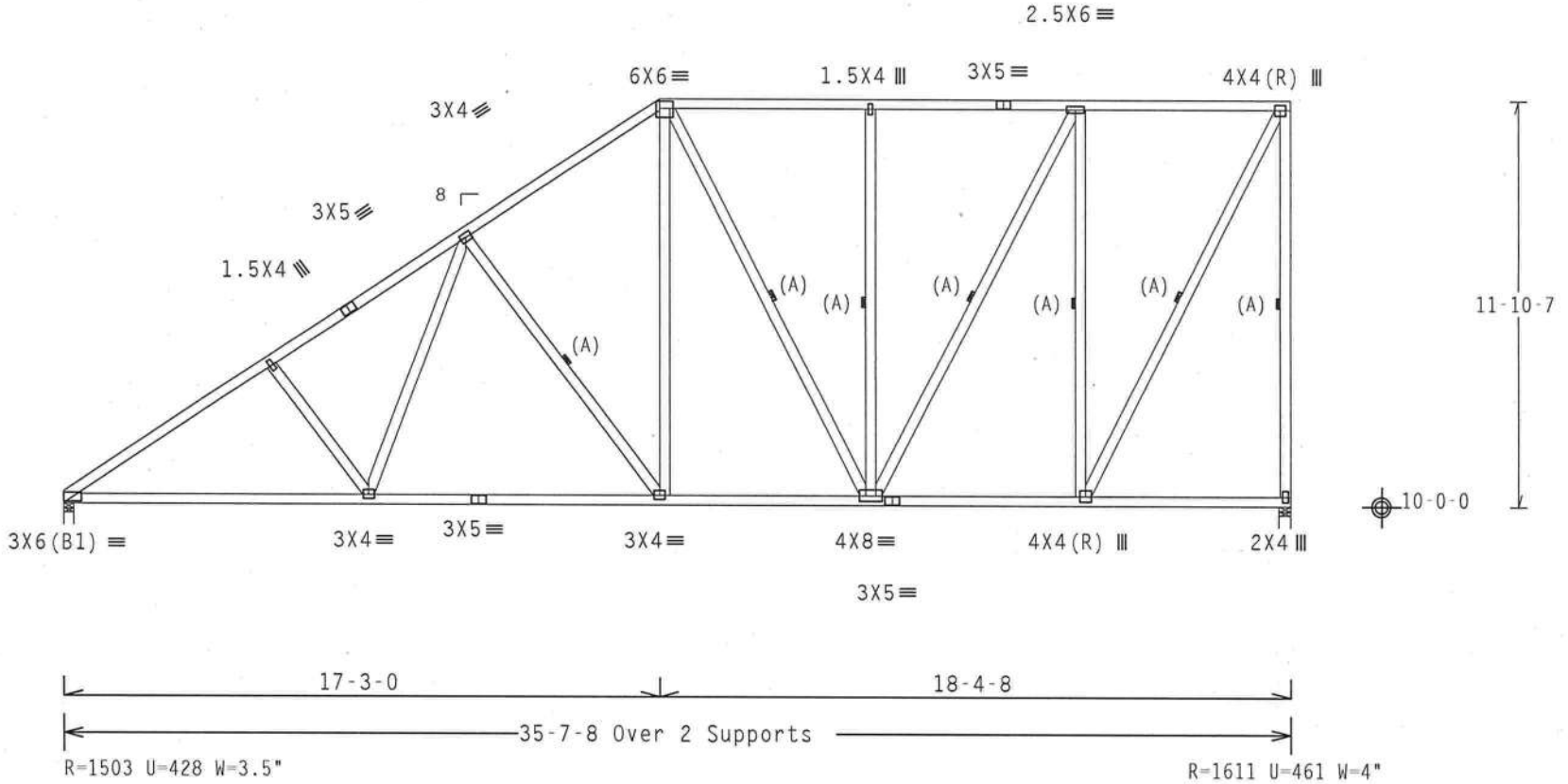
Wind reactions based on MWFRS pressures.

110 mph wind, 16.12 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123[illegible]

PLT TYP. Wave

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

07 '08

TC LL	20.0 PSF	REF R8228- 50280
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067123
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23764
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

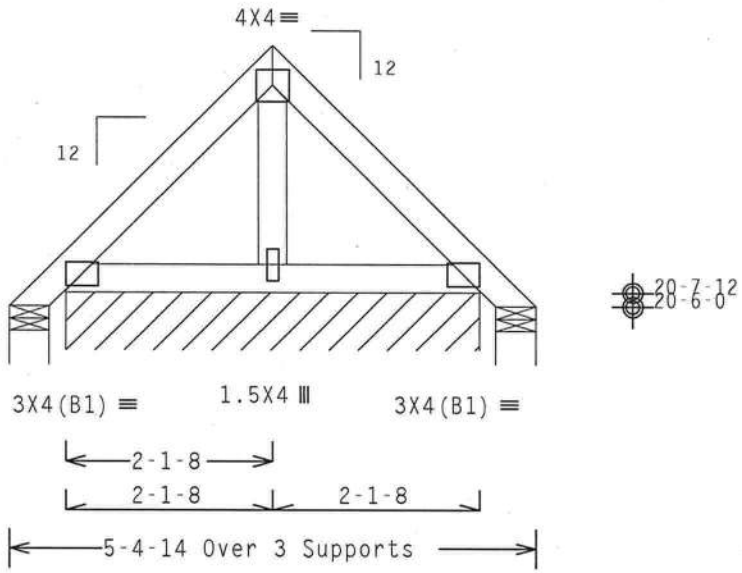
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.85 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=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



20-7-12
20-6-0

R=-4 Rw=98 U=96 W=4.95"

R=87 PLF U=53 PLF W=4-3-0

R=-4 Rw=22 U=20 W=4.95"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave

QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50281
TC DL	10.0 PSF	DATE 03/07/08
BC DL	2.0 PSF	DRW HCUSR8228 08067125
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	32.0 PSF	SEQN- 24830
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - HJ1)

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

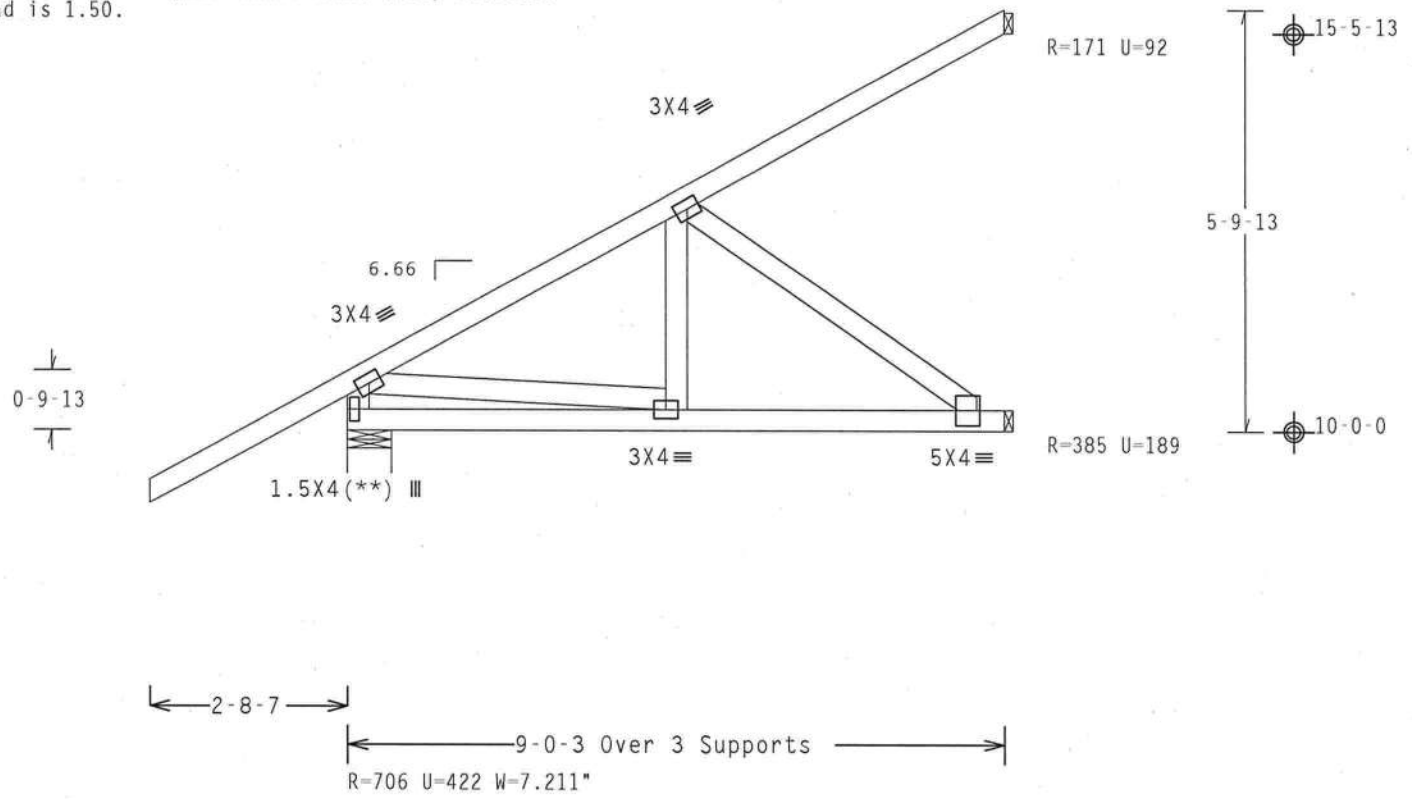
Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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

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

TC	- From	63 PLF	at	-2.70	to	63 PLF at 9.01
BC	- From	5 PLF	at	-2.70	to	5 PLF at 0.00
BC	- From	20 PLF	at	0.00	to	20 PLF at 9.01
TC	-	34 LB Conc. Load	at	1.87		
TC	-	-79 LB Conc. Load	at	1.87		
TC	-	31 LB Conc. Load	at	4.28		
TC	-	98 LB Conc. Load	at	5.47		
TC	-	93 LB Conc. Load	at	6.68		
BC	-	50 LB Conc. Load	at	1.87		
BC	-	36 LB Conc. Load	at	4.28		
BC	-	25 LB Conc. Load	at	5.47		
BC	-	46 LB Conc. Load	at	6.68		



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50282
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067126
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	24910
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H5B)

Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -3.54 to 64 PLF at 8.25
TC - From 64 PLF at 8.25 to 64 PLF at 39.29
BC - From 5 PLF at -3.54 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 39.29
TC - 145 LB Conc. Load at 8.31, 10.31, 12.31, 14.31, 16.31 18.31, 20.31, 22.31, 24.31, 26.31, 28.31, 30.31, 32.31, 34.31 36.31, 38.31
BC - 445 LB Conc. Load at 8.25
BC - 59 LB Conc. Load at 10.31, 12.31, 14.31, 16.31, 18.31 20.31, 22.31, 24.31, 26.31, 28.31, 30.31, 32.31, 34.31, 36.31 38.31

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

2 COMPLETE TRUSSES REQUIRED

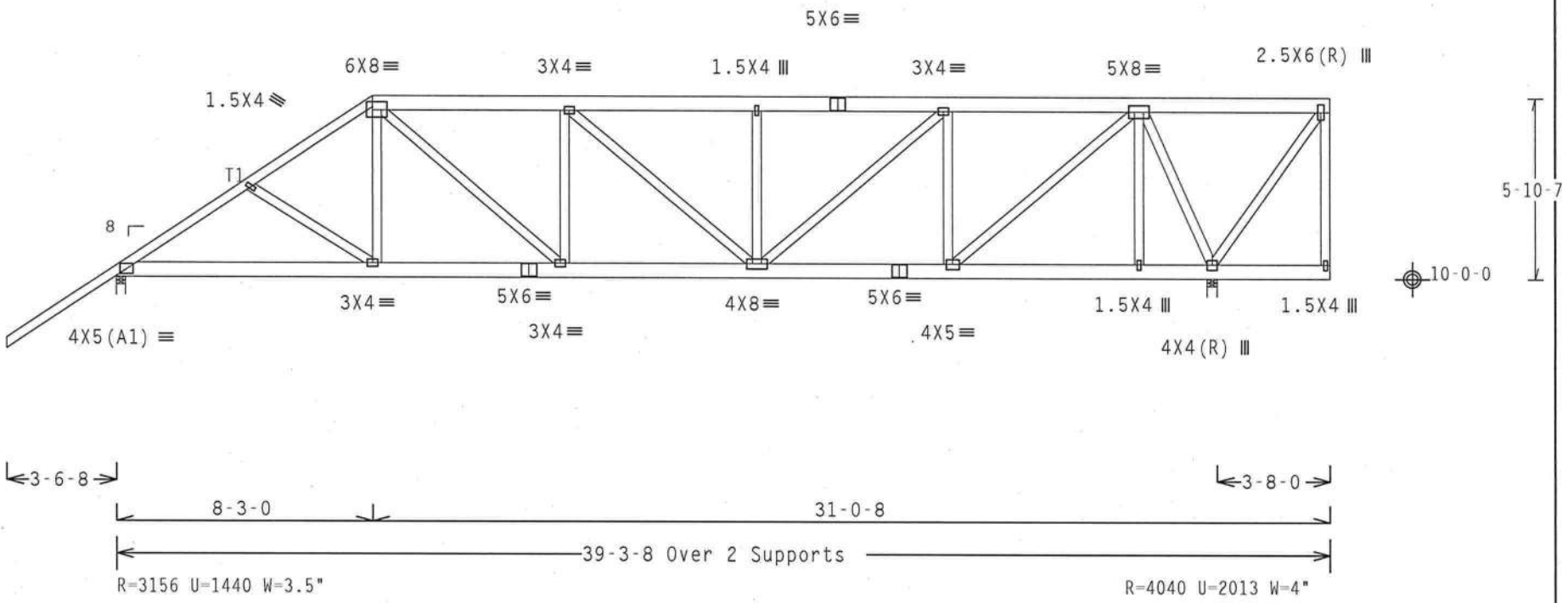
Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50283
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067127
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23370
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

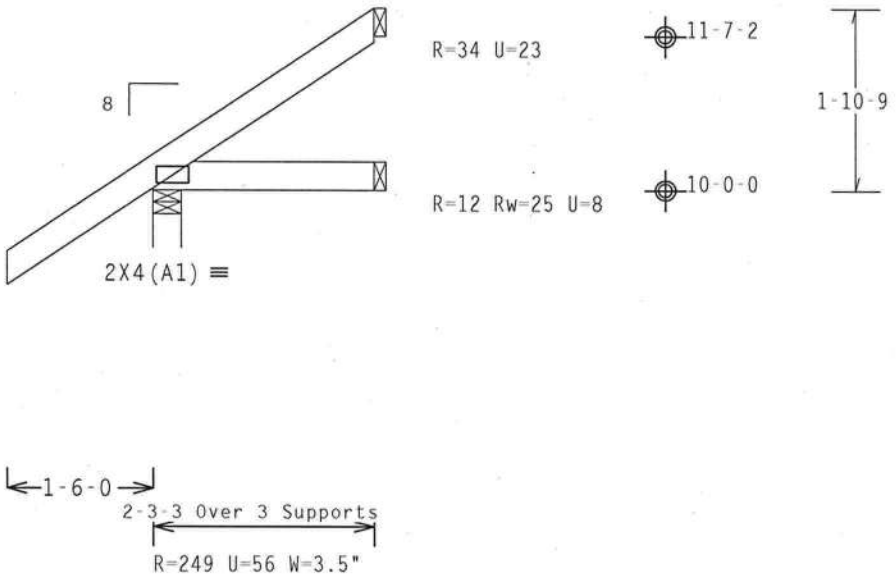
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123.16 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50284
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067128
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 24881
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J2)

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

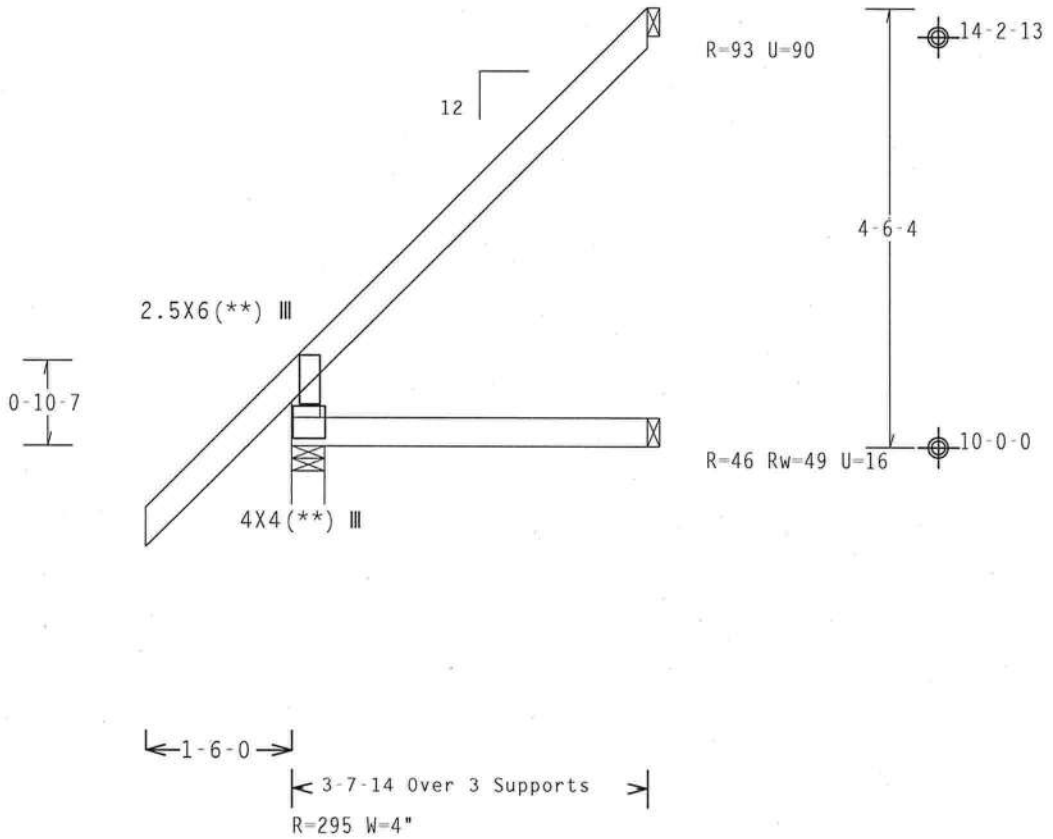
Roof overhang supports 2.00 psf soffit load.

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

(**) 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, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50285
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067129
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24867
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - J1)

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

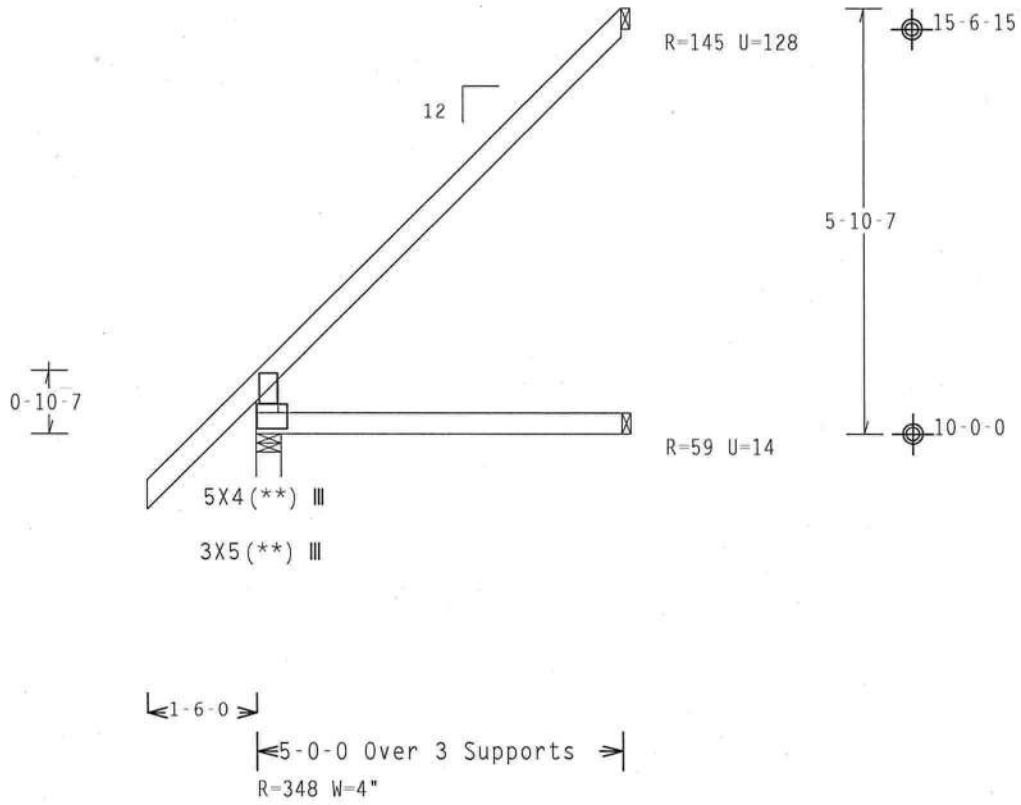
Roof overhang supports 2.00 psf soffit load.

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

(**) 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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50286
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067130
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24862
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

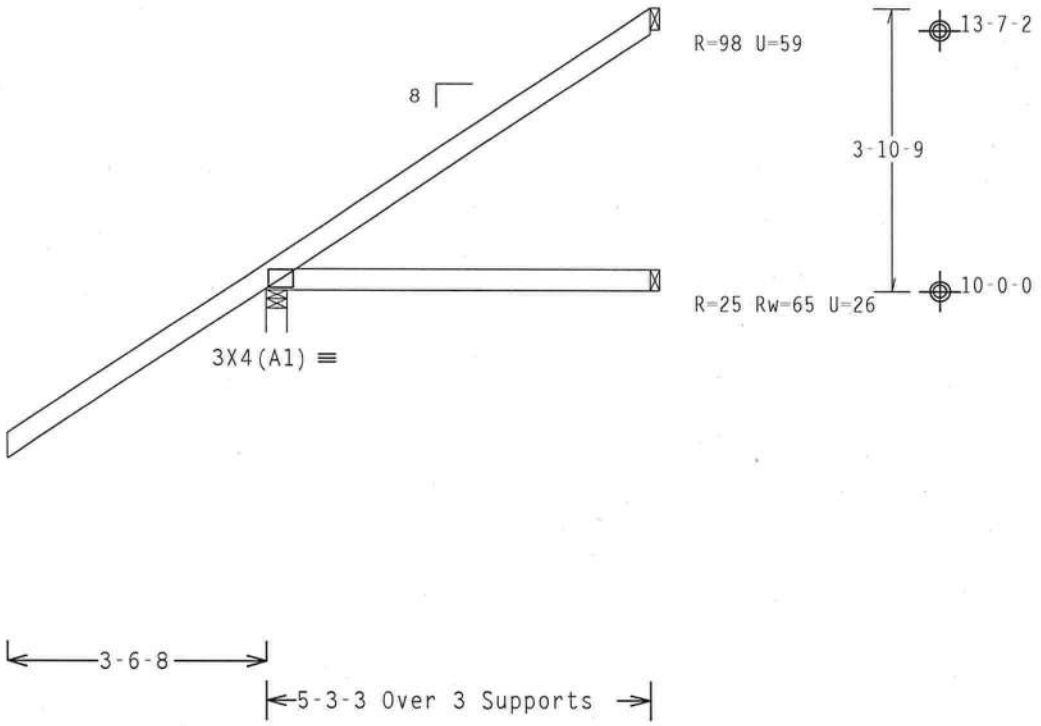
Roof overhang supports 2.00 psf soffit load.

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

Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.

110 mph wind, 15.00 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. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50287
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067131
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 24885
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

Top chord 2x6 SP #2 :T2, T4 2x8 SP SS:
:T3 2x4 SP #2 Dense:
Bot chord 2x8 SP SS :B3 2x4 SP #2 Dense:
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

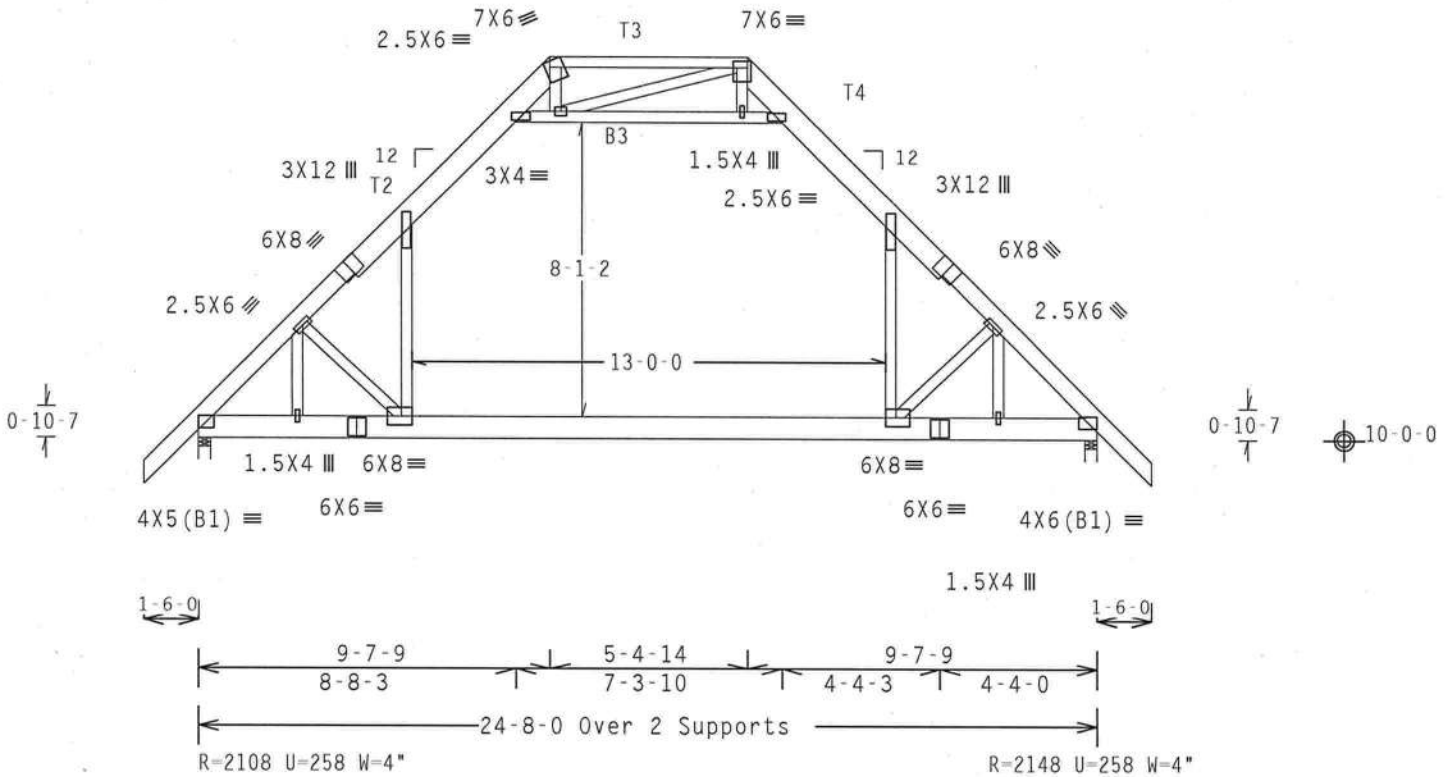
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 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. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.11" due to live load and 0.23" due to dead load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-10-0 to 19-1-8.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF	R8228- 50288
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067132
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	24850
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

110 mph wind, 23.82 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

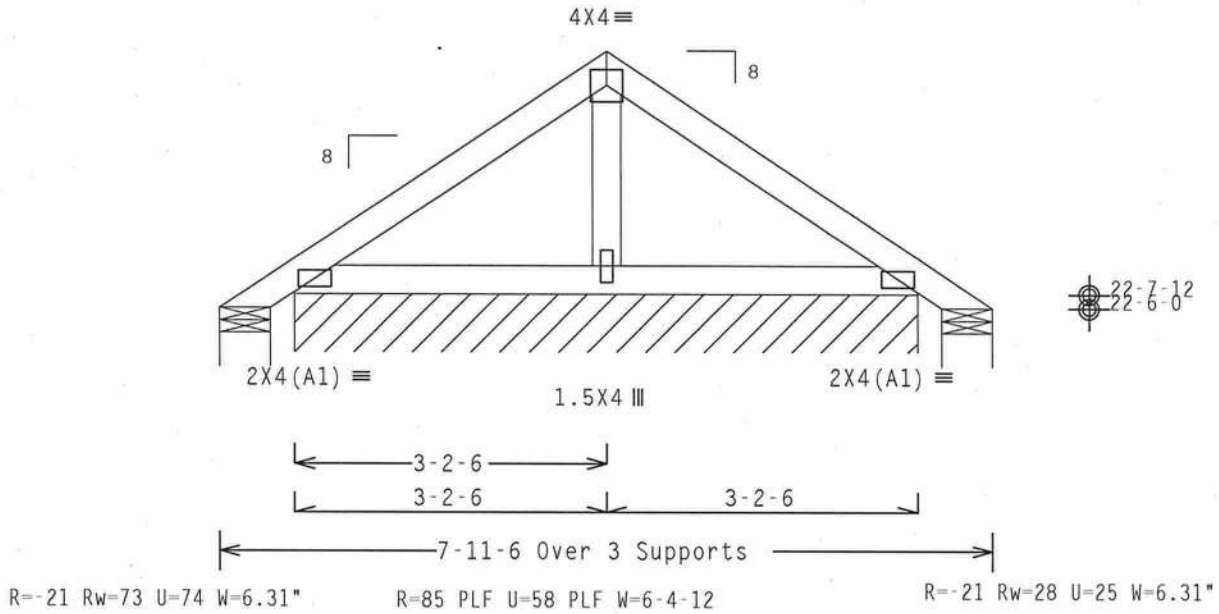
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_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.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50289
TC DL	10.0 PSF	DATE 03/07/08
BC DL	2.0 PSF	DRW HCUSR8228 08067133
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	32.0 PSF	SEQN- 23489
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

Top chord 2x4 SP #2 Dense :T2, T4 2x8 SP SS:
Bot chord 2x8 SP SS :B3 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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

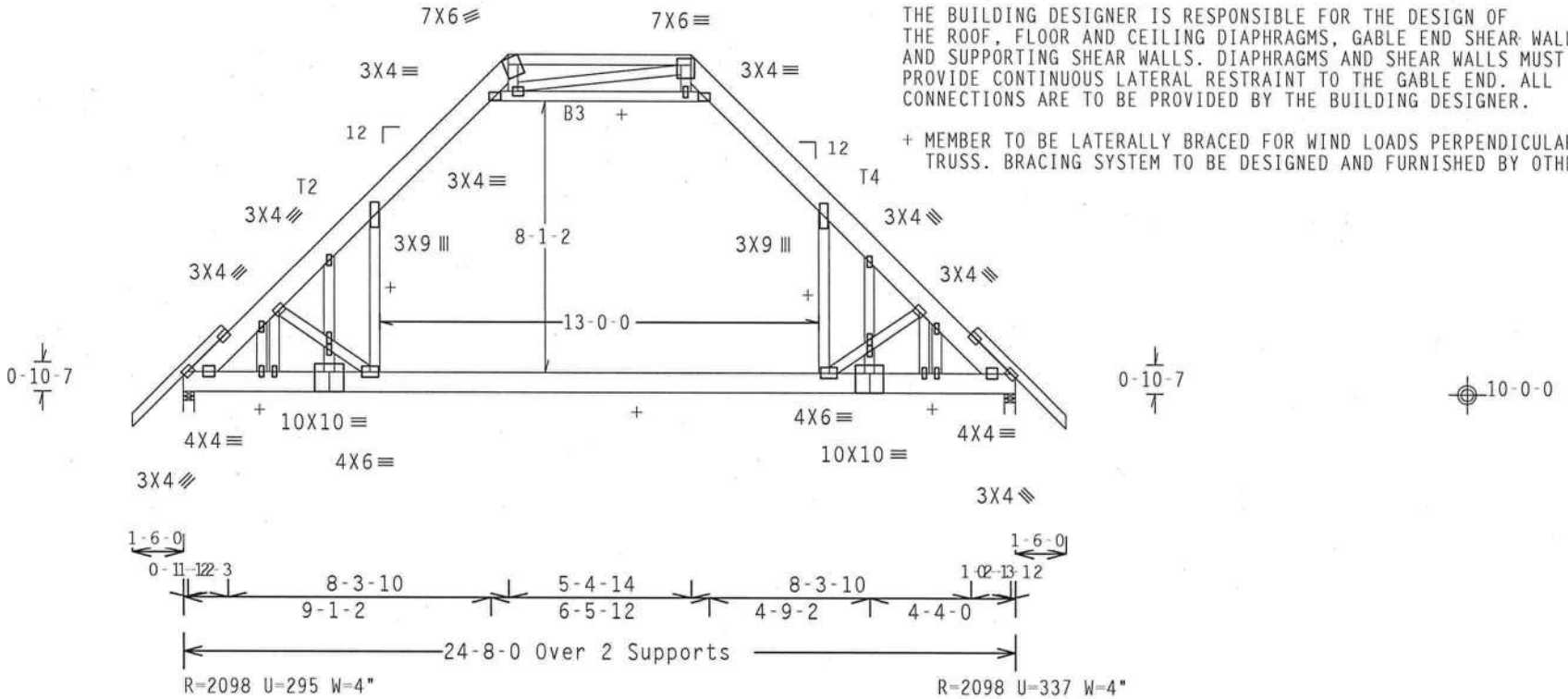
Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 4.00 PSF. Top chord must not be cut or notched.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-10-0 to 18-10-0.

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

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



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

ALPINE
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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50290
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067157
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	23813
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

110 mph wind, 23.18 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

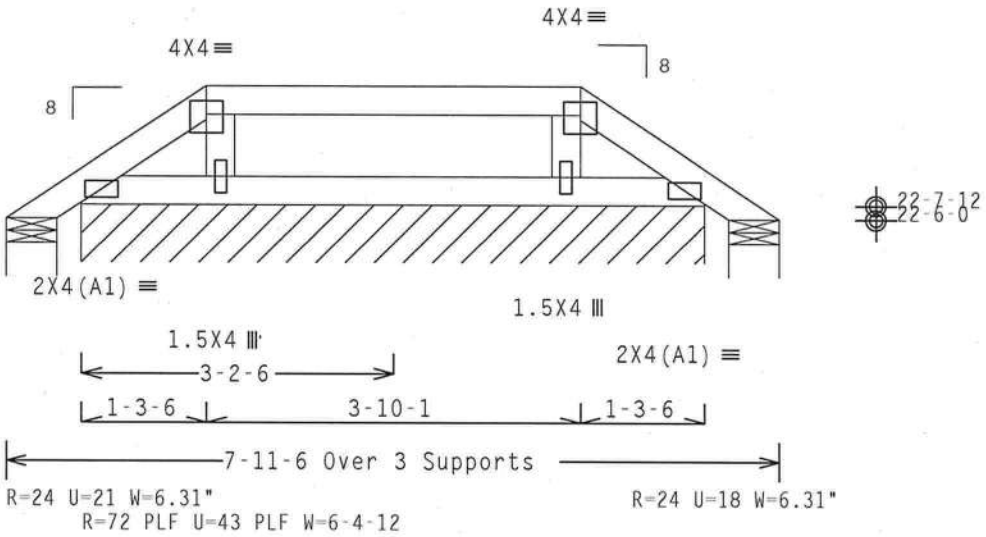
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_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.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123. QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50291
TC DL	10.0 PSF	DATE 03/07/08
BC DL	2.0 PSF	DRW HCUSR8228 08067139
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	32.0 PSF	SEQN- 23618
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

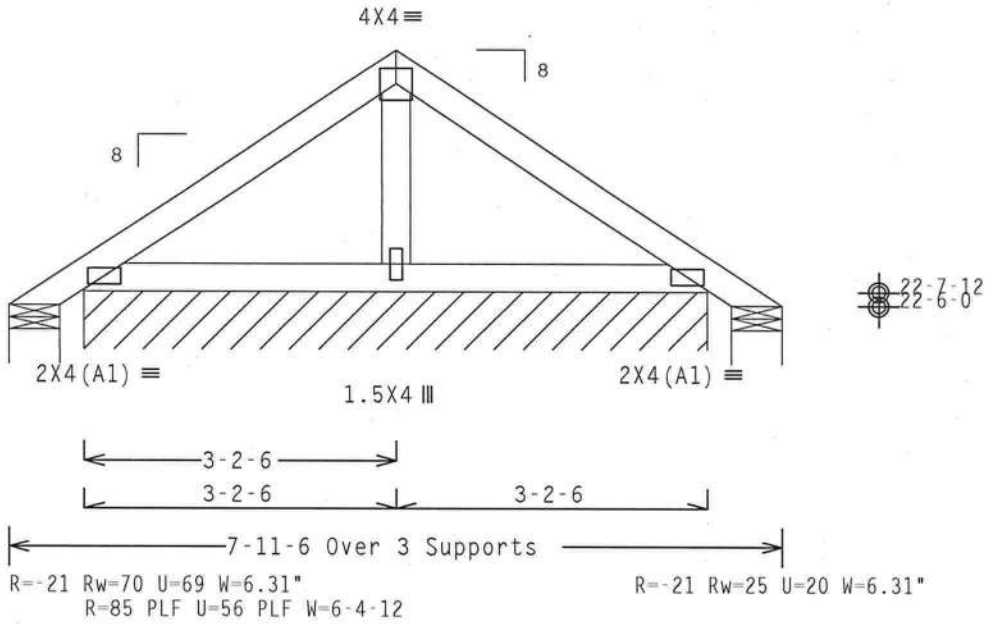
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.82 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=1.2 psf.

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



Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.052 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50292
TC DL	10.0 PSF	DATE	03/07/08
BC DL	2.0 PSF	DRW	HCUSR8228 08067140
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	32.0 PSF	SEQN-	15567 REV
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

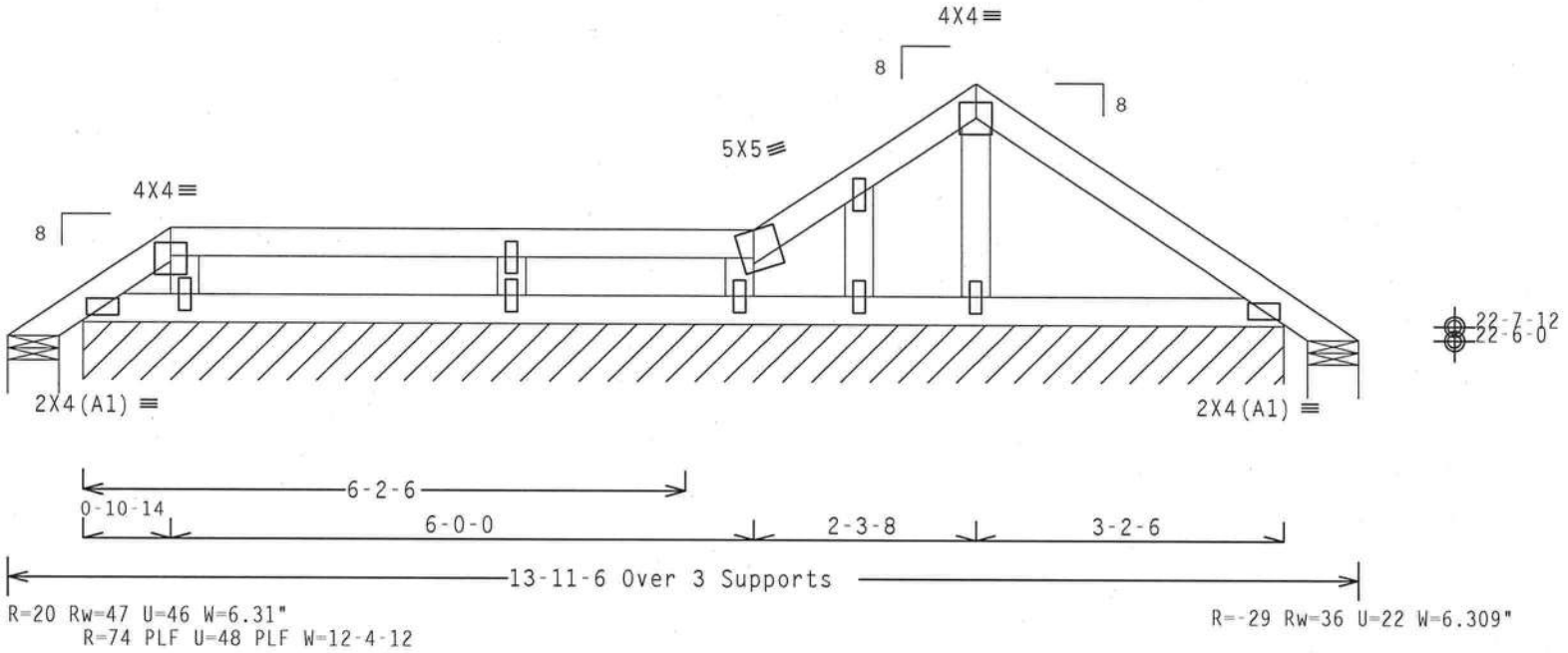
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 23.82 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



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) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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07 '08

TC LL	20.0 PSF	REF	R8228- 50293
TC DL	10.0 PSF	DATE	03/07/08
BC DL	2.0 PSF	DRW	HCUSR8228 08067141
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	32.0 PSF	SEQN-	23513
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

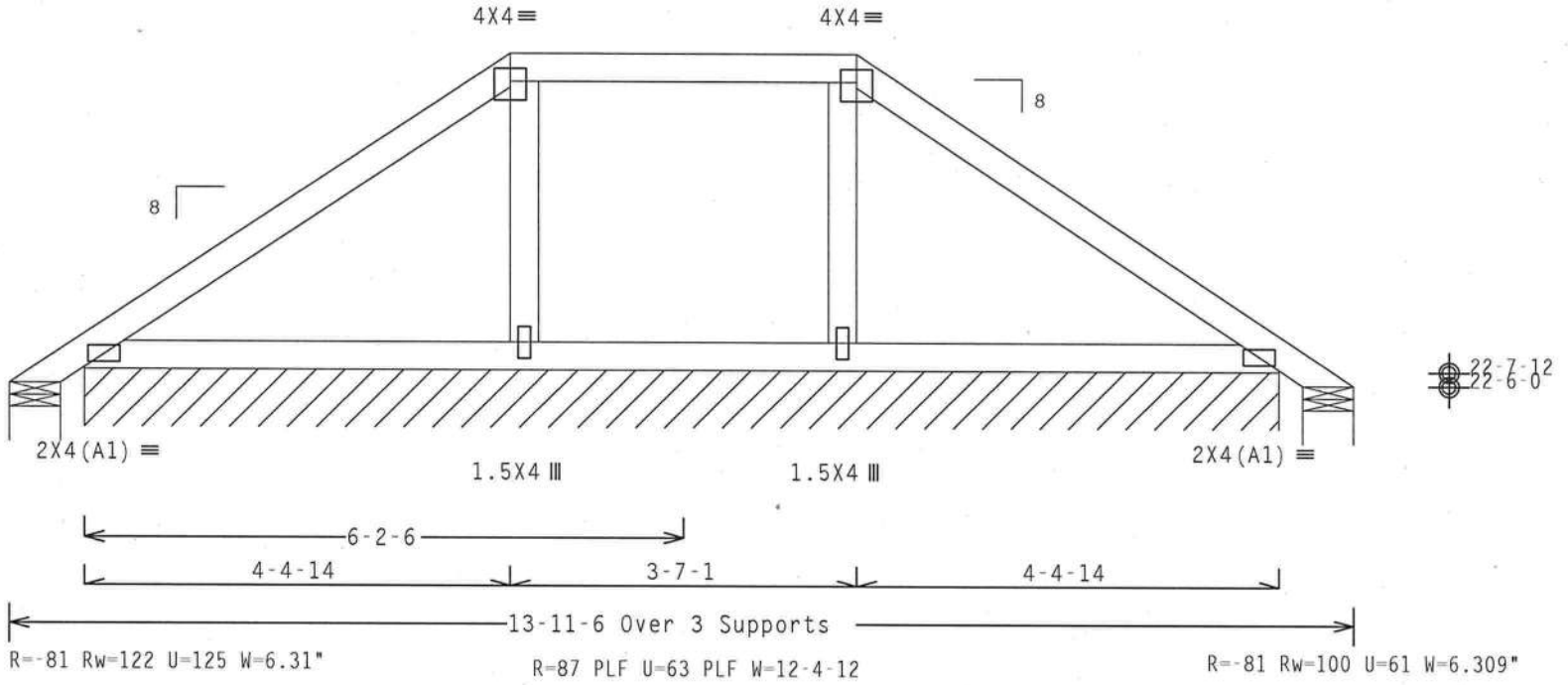
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 24.23 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50294
TC DL	10.0 PSF	DATE 03/07/08
BC DL	2.0 PSF	DRW HCUSR8228 08067142
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	32.0 PSF	SEQN- 23522
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

Roof overhang supports 2.00 psf soffit load.

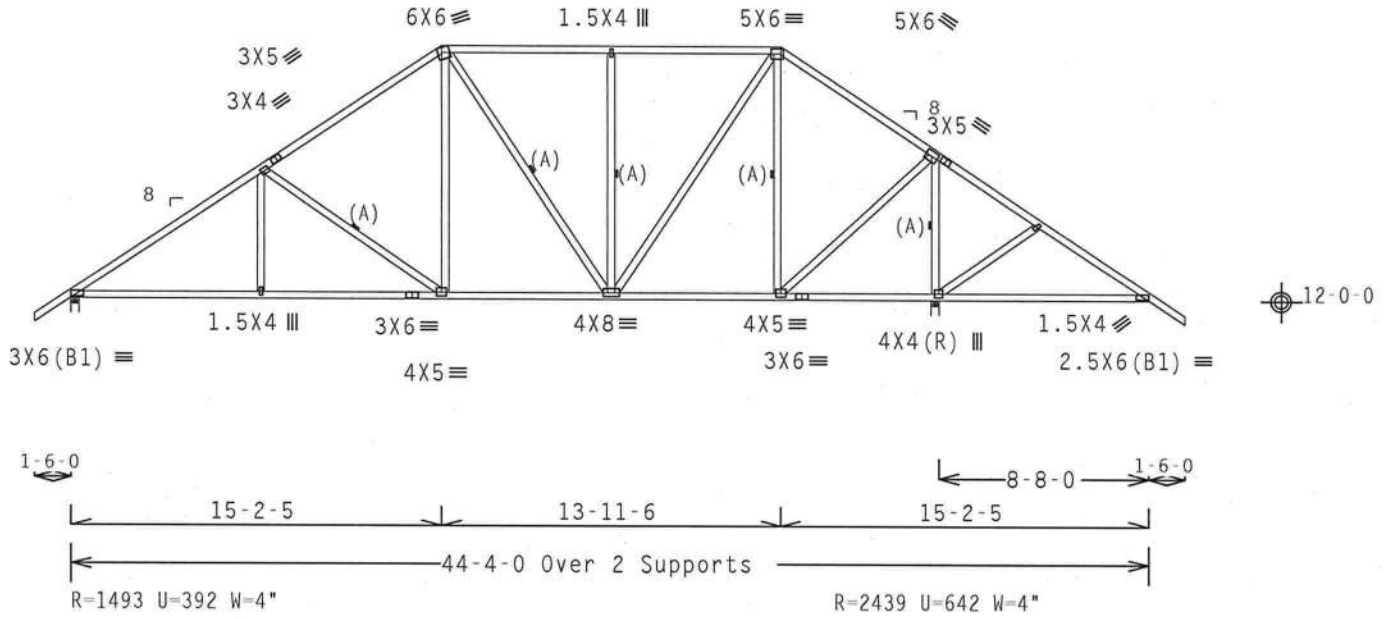
(A) Continuous lateral bracing equally spaced on member.

NOTE:
TRUSS MAY EXHIBIT UNDESIREABLE DEFLECTION
UNDER FULL DESIGN LOAD, AS THE LONG TERM EFFECTS
OF CREEP HAVE NOT BEEN CONSIDERED FOR THIS DESIGN

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

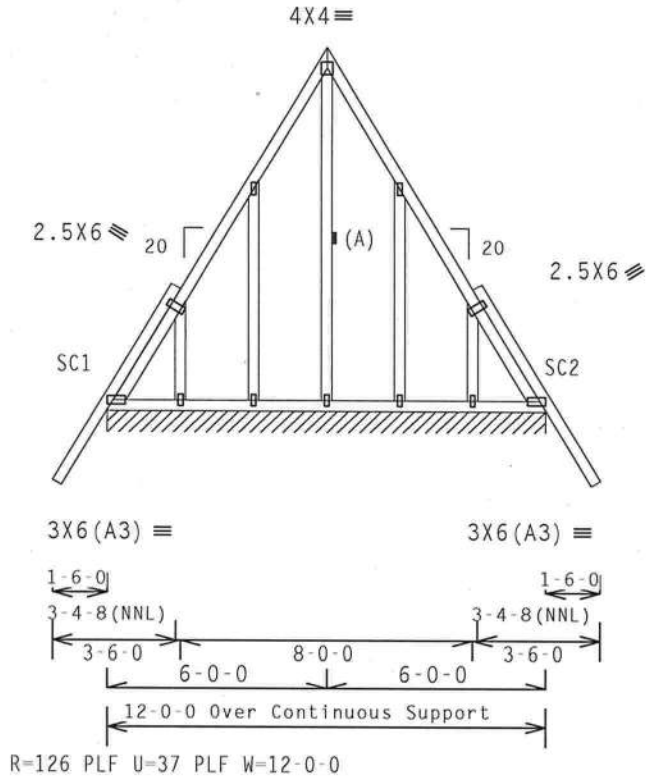
TC LL	20.0 PSF	REF R8228- 50295
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067097
BC LL	0.0 PSF	HC-ENG JB/DF *
TOT.LD.	40.0 PSF	SEQN- 78527
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

Roof overhang supports 2.00 psf soffit load.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

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



R=126 PLF U=37 PLF W=12-0-0

110 mph wind, 19.16 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. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 4.00 PSF. Top chord must not be cut or notched.

(A) Continuous lateral bracing equally spaced on member.

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

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

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

07 '08

TC LL	20.0 PSF	REF R8228- 50296
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067143
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23591
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 4.00 PSF. Top chord must not be cut or notched.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

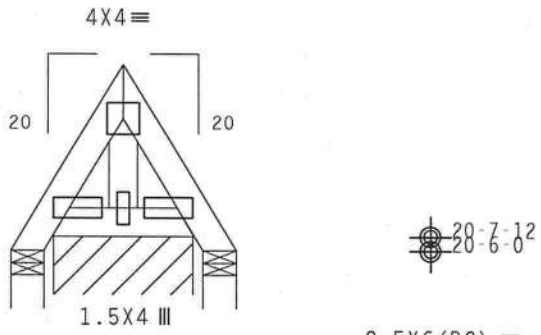
110 mph wind, 21.46 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

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

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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TC LL	20.0 PSF	REF R8228- 50297
TC DL	10.0 PSF	DATE 03/07/08
BC DL	2.0 PSF	DRW HCUSR8228 08067145
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	32.0 PSF	SEQN- 23583
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

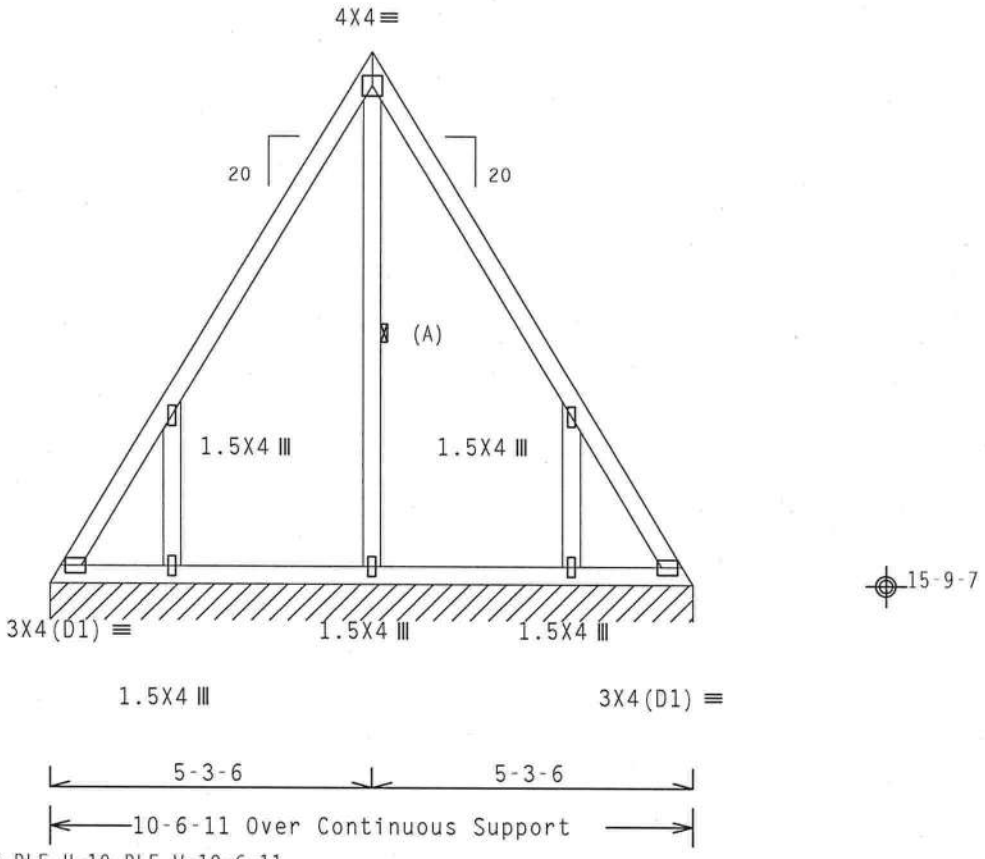
(A) Continuous lateral bracing equally spaced on member.

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

110 mph wind, 20.33 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



15-9-7

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

07 '08

TC LL	20.0 PSF	REF R8228- 50298
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067146
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23707
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - V2)

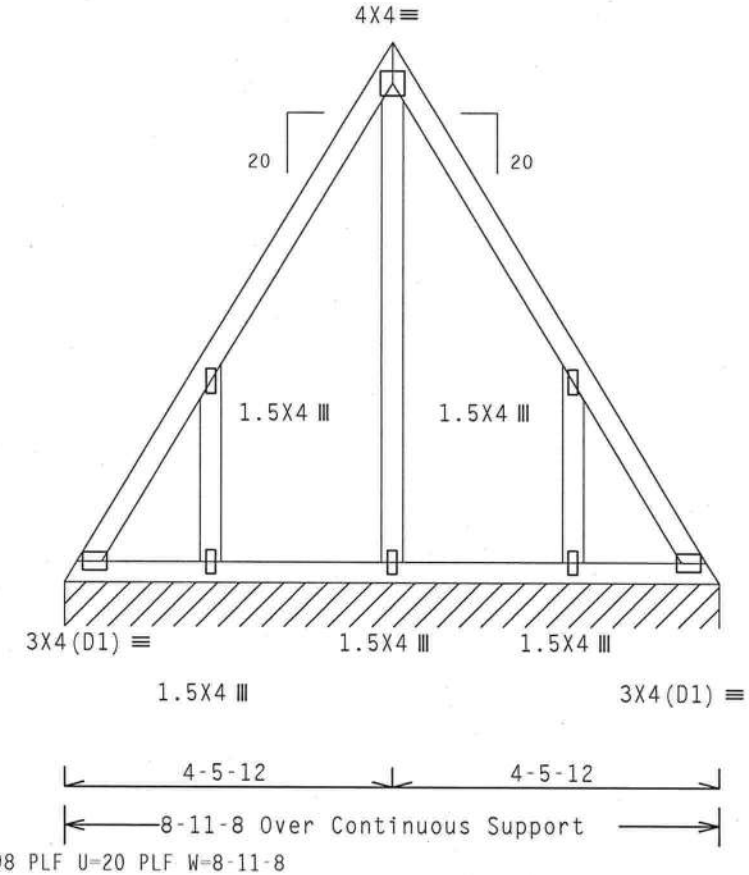
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 21.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



17-1-7

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
'07 '08

TC LL	20.0 PSF	REF R8228- 50299
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067147
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23711
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

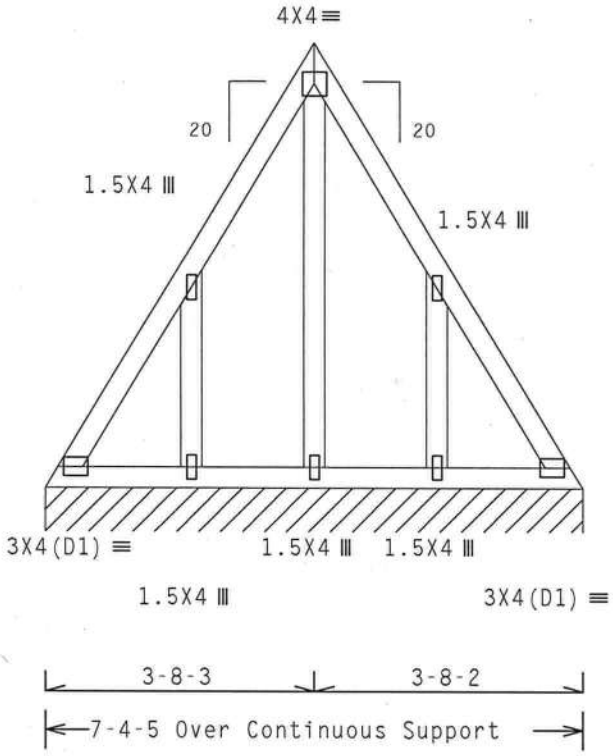
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 21.67 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



18-5-7

R=98 PLF U=21 PLF W=7-4-5

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.123 QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50300
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067148
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	23715
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

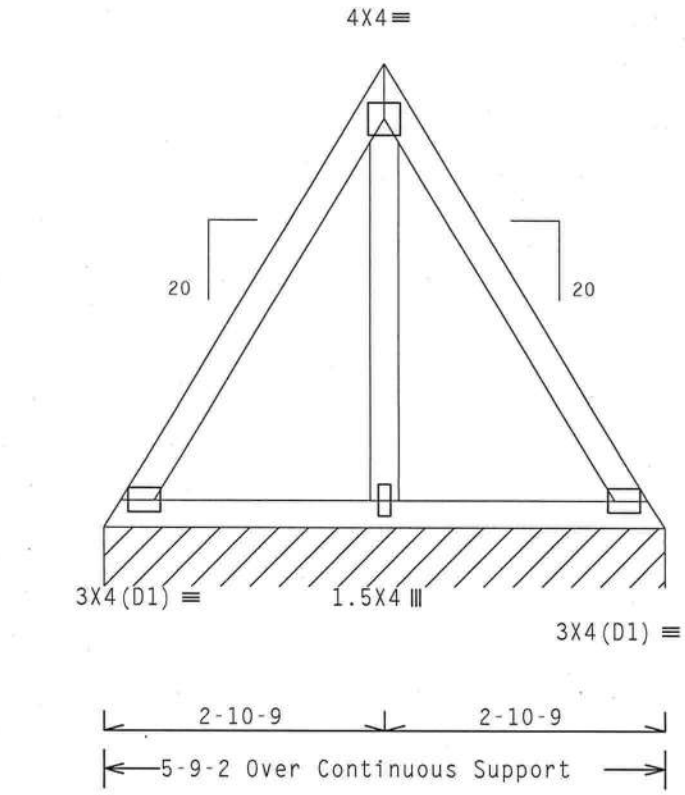
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 22.33 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.123

QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

07 '08

TC LL	20.0 PSF	REF R8228- 50301
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067149
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23719
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

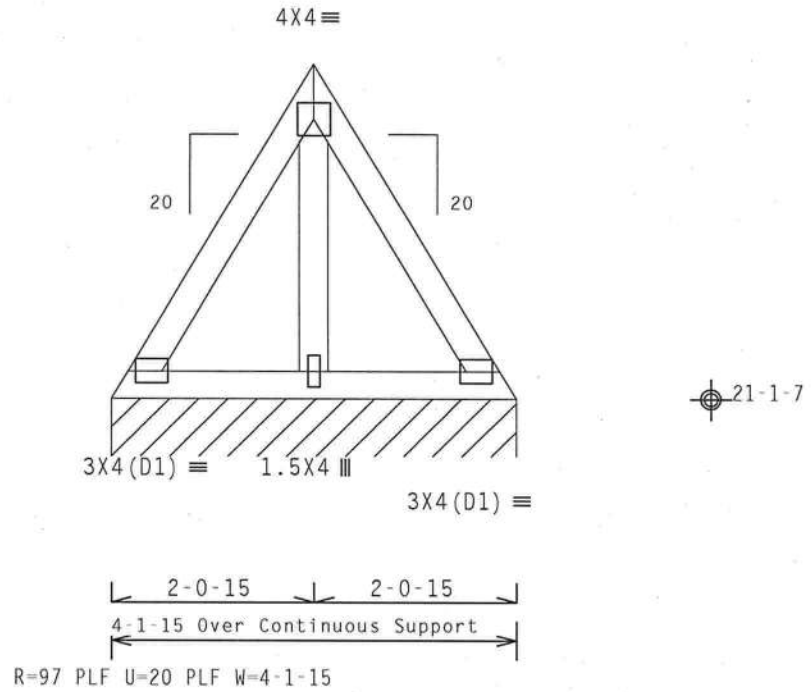
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 23.00 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. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1230.11 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
'08

TC LL	20.0 PSF	REF	R8228- 50302
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067150
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	23723
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - V6)

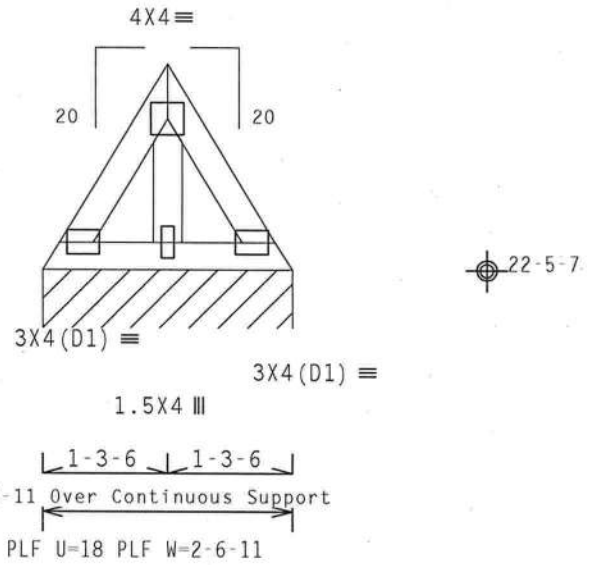
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 23.67 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. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWG VALTRUSS0207 for valley details.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50303
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067151
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23727
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

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

110 mph wind, 21.85 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

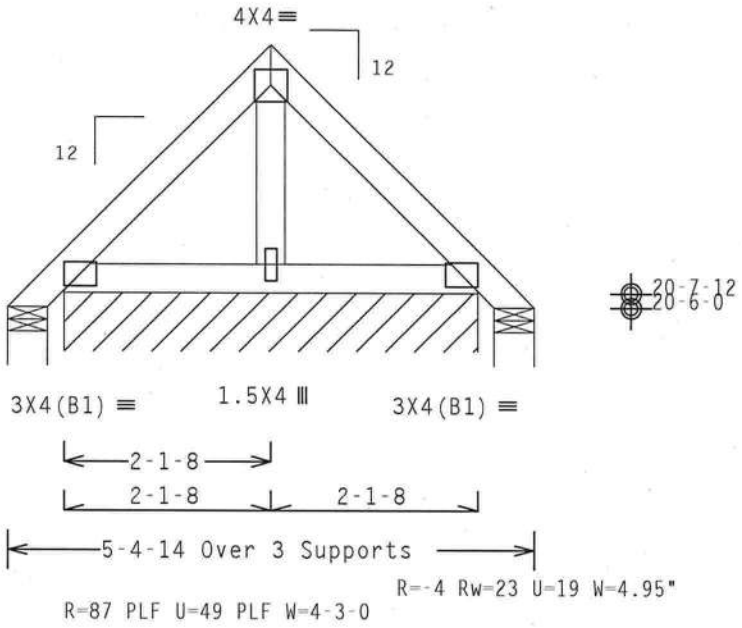
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 68 PLF at 0.00 to 68 PLF at 5.41
BC - From 4 PLF at 0.00 to 4 PLF at 5.41

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Wind reactions based on MWFRS pressures.

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



Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.05 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50304
TC DL	10.0 PSF	DATE 03/07/08
BC DL	2.0 PSF	DRW HCUSR8228 08067152
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	32.0 PSF	SEQN- 15581 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - A1)

Top chord 2x6 SP #1 Dense :T2, T4 2x8 SP SS:
:T3 2x4 SP #2 Dense:
Bot chord 2x8 SP SS :B3 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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.12" due to live load and 0.21" due to dead load.

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

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

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

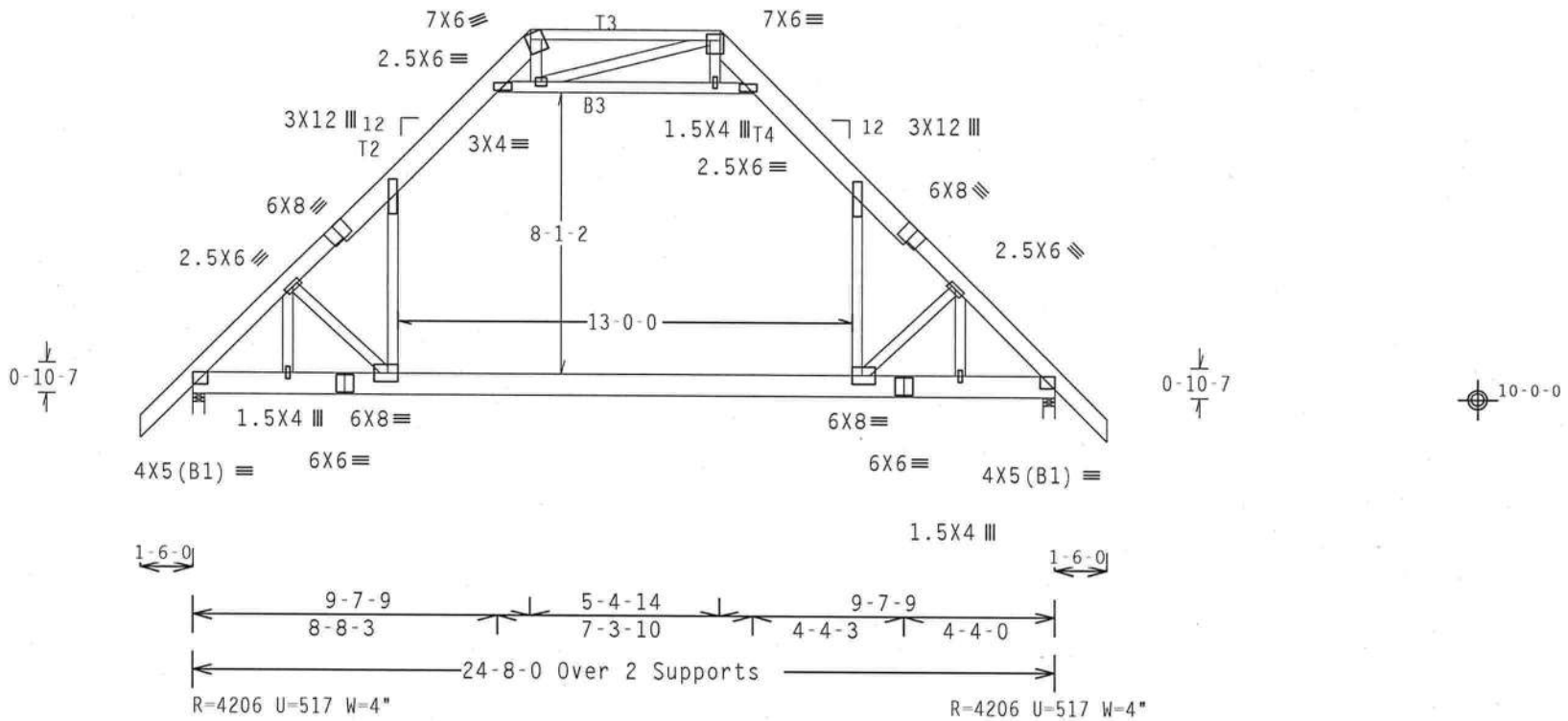
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"._min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 8.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Roof overhang supports 2.00 psf soffit load.

Trusses to be spaced at 48.0" OC maximum.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-10-0 to 18-10-0.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.12

PLT TYP. Wave

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50305
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067153
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 23743
DUR.FAC.	1.25	
SPACING	48.0"	JREF- 1TFL8228Z03

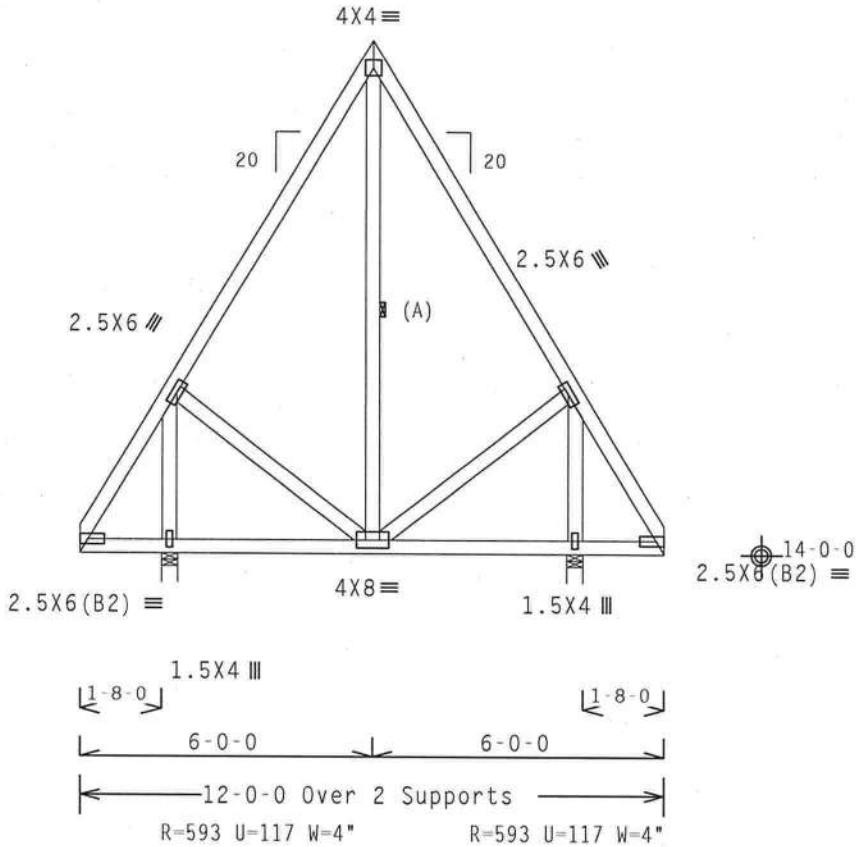
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 19.59 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.

(A) Continuous lateral bracing equally spaced on member.



Design Crit: TPI-2002(STD)
Cq/RT=1.00(1.25)/10(0) 7.37.05

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50306
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067154
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 15586 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - D)

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

Left end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

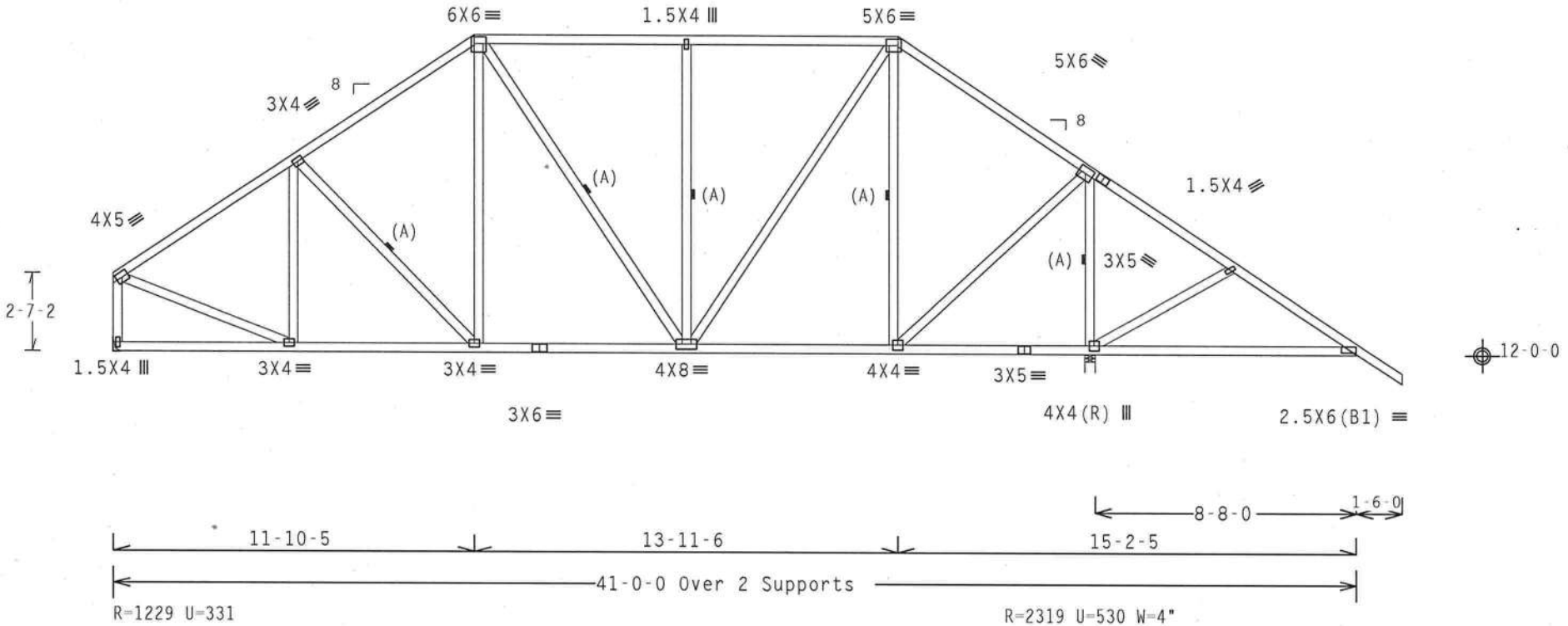
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.94 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

NOTE:
TRUSS MAY EXHIBIT UNDESIREABLE DEFLECTION
UNDER FULL DESIGN LOAD, AS THE LONG TERM EFFECTS
OF CREEP HAVE NOT BEEN CONSIDERED FOR THIS DESIGN



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50307
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067104
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78532
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H13B)

THIS DRG 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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 9.86
TC - From 64 PLF at 9.86 to 64 PLF at 24.77
TC - From 64 PLF at 24.77 to 64 PLF at 30.29
BC - From 20 PLF at 0.00 to 20 PLF at 10.96
BC - From 20 PLF at 10.96 to 20 PLF at 30.29
TC - 120 LB Conc. Load at 30.29

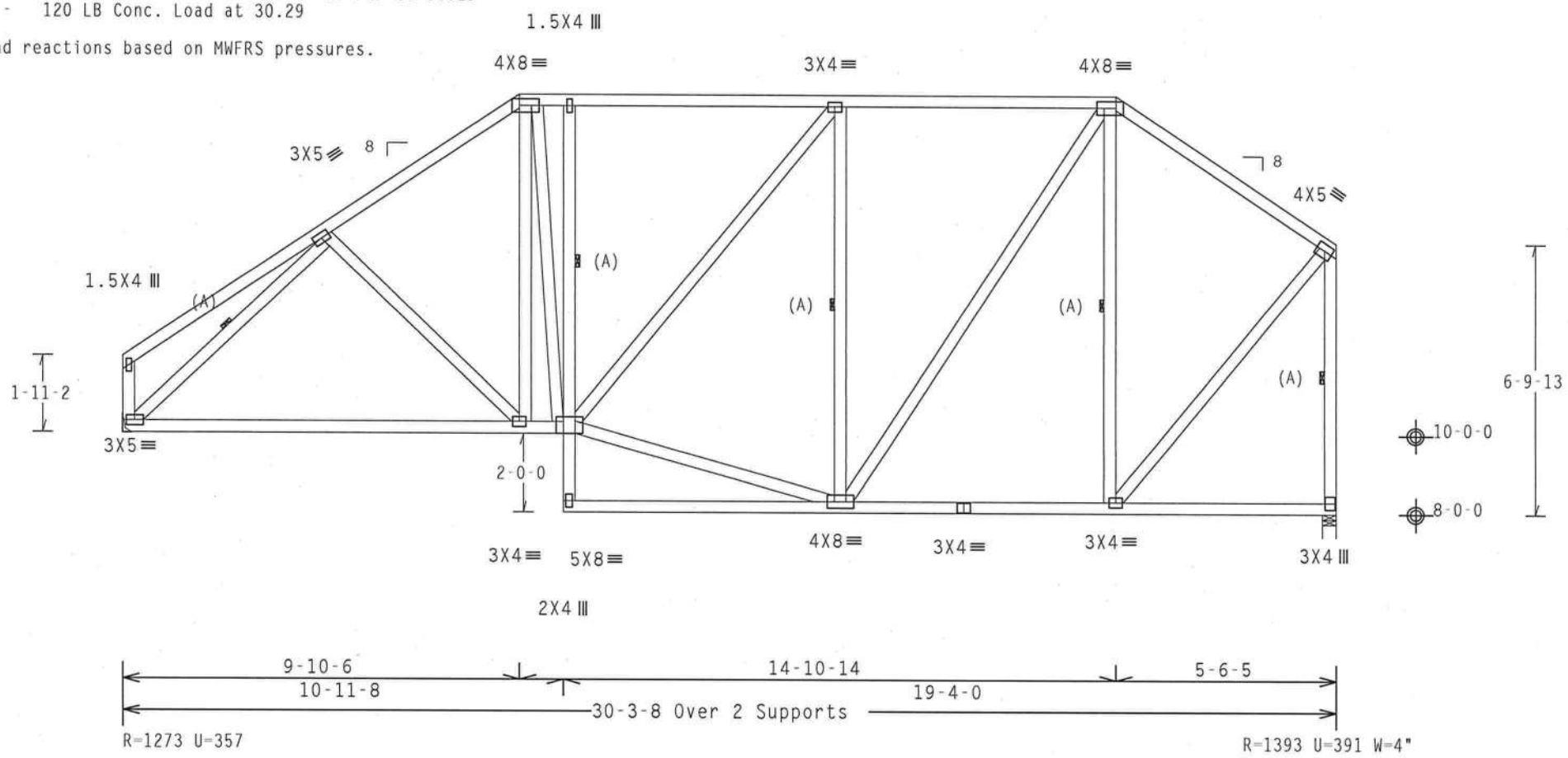
Wind reactions based on MWFRS pressures.

110 mph wind, 15.21 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.042[illegible] QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] '08

TC LL	20.0 PSF	REF R8228- 50308
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067135
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78351
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H3C)

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

Top chord 2x4 SP #2 Dense :T2 2x6 SP #1 Dense:
Bot chord 2x4 SP #2 Dense :B1 2x6 SP #1 Dense:
:B2 2x6 SP #2:
Webs 2x4 SP #3

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

TC - From	64 PLF	at -1.50	to	64 PLF	at 5.25
TC - From	64 PLF	at 5.25	to	64 PLF	at 10.29
TC - From	64 PLF	at 10.29	to	64 PLF	at 17.23
TC - From	64 PLF	at 17.23	to	64 PLF	at 32.14
TC - From	64 PLF	at 32.14	to	64 PLF	at 37.67
BC - From	5 PLF	at -1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at 0.00	to	20 PLF	at 18.33
BC - From	20 PLF	at 18.33	to	20 PLF	at 37.67

TC - 300 LB Conc. Load at 5.25
TC - 1646 LB Conc. Load at 7.31
TC - 120 LB Conc. Load at 37.67
BC - 123 LB Conc. Load at 5.25
BC - 1646 LB Conc. Load at 7.31

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

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"._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.

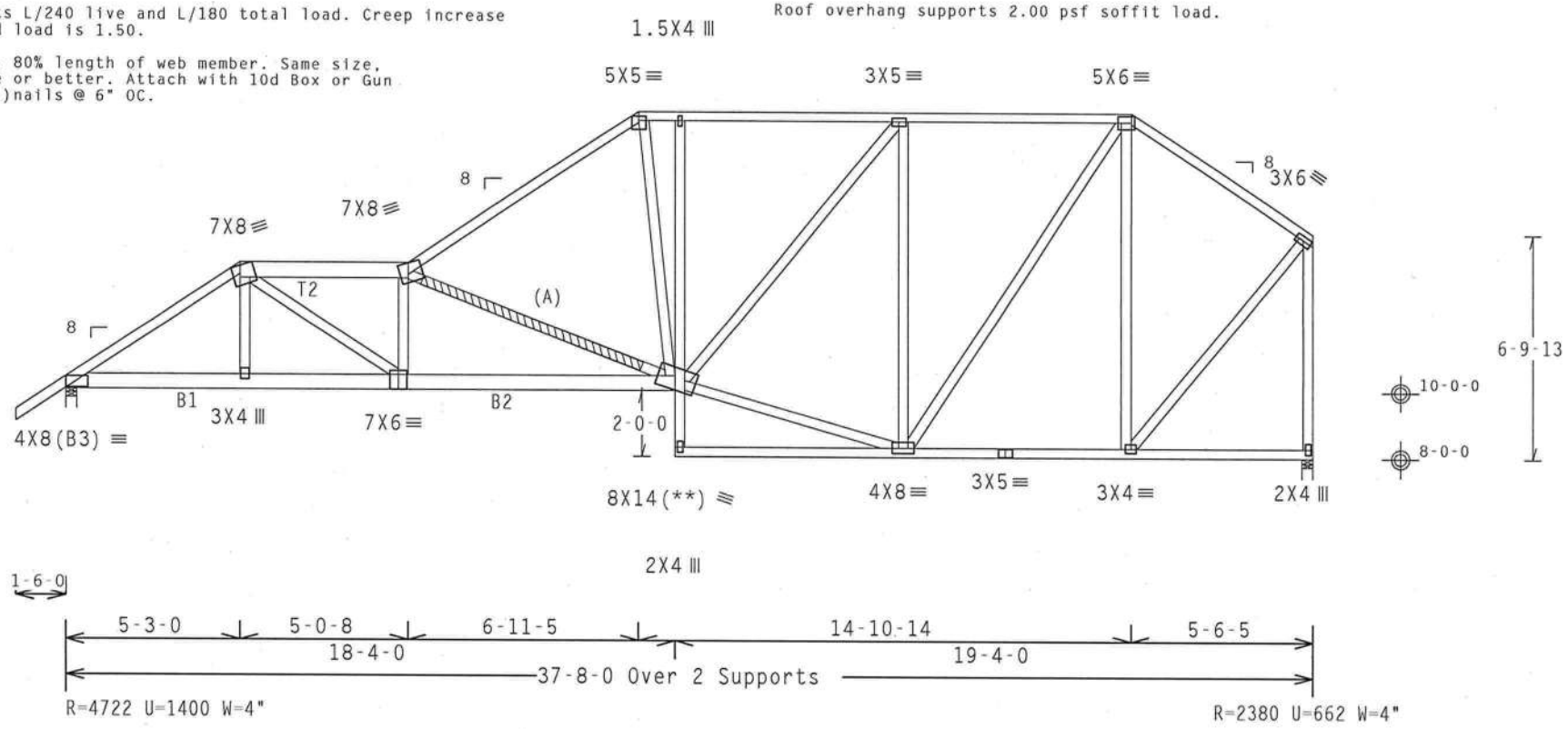
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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 C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.0424

PLT TYP. Wave

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

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF	R8228- 50309
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067109
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78428
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - P1)

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

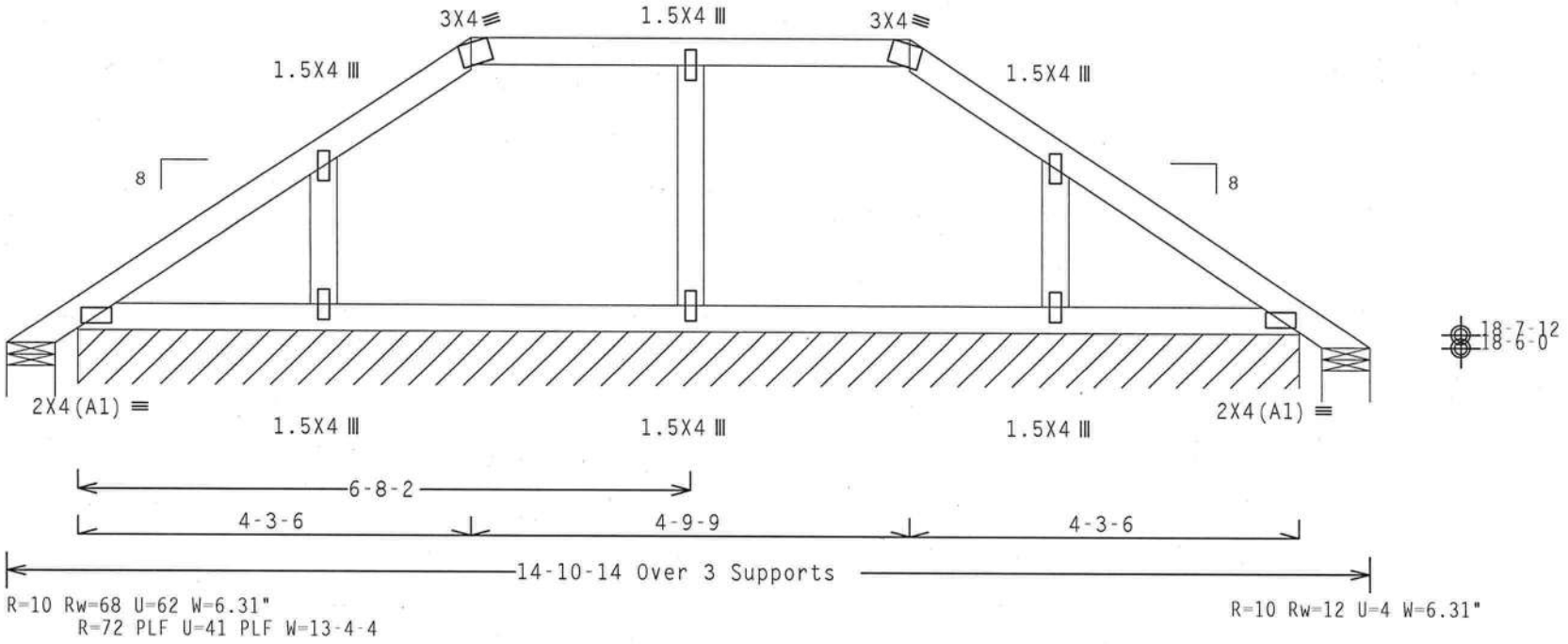
110 mph wind, 20.18 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 5.05
TC - From 64 PLF at 5.05 to 64 PLF at 9.85
TC - From 64 PLF at 9.85 to 64 PLF at 14.91
BC - From 4 PLF at 0.00 to 4 PLF at 14.91

Wind reactions based on MWFRS pressures.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.



Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.052 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, 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. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50310
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067124
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 15591 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - P3)

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 7.45
TC - From 64 PLF at 7.45 to 64 PLF at 14.91
BC - From 4 PLF at 0.00 to 4 PLF at 14.91

Wind reactions based on MWFRS pressures.

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

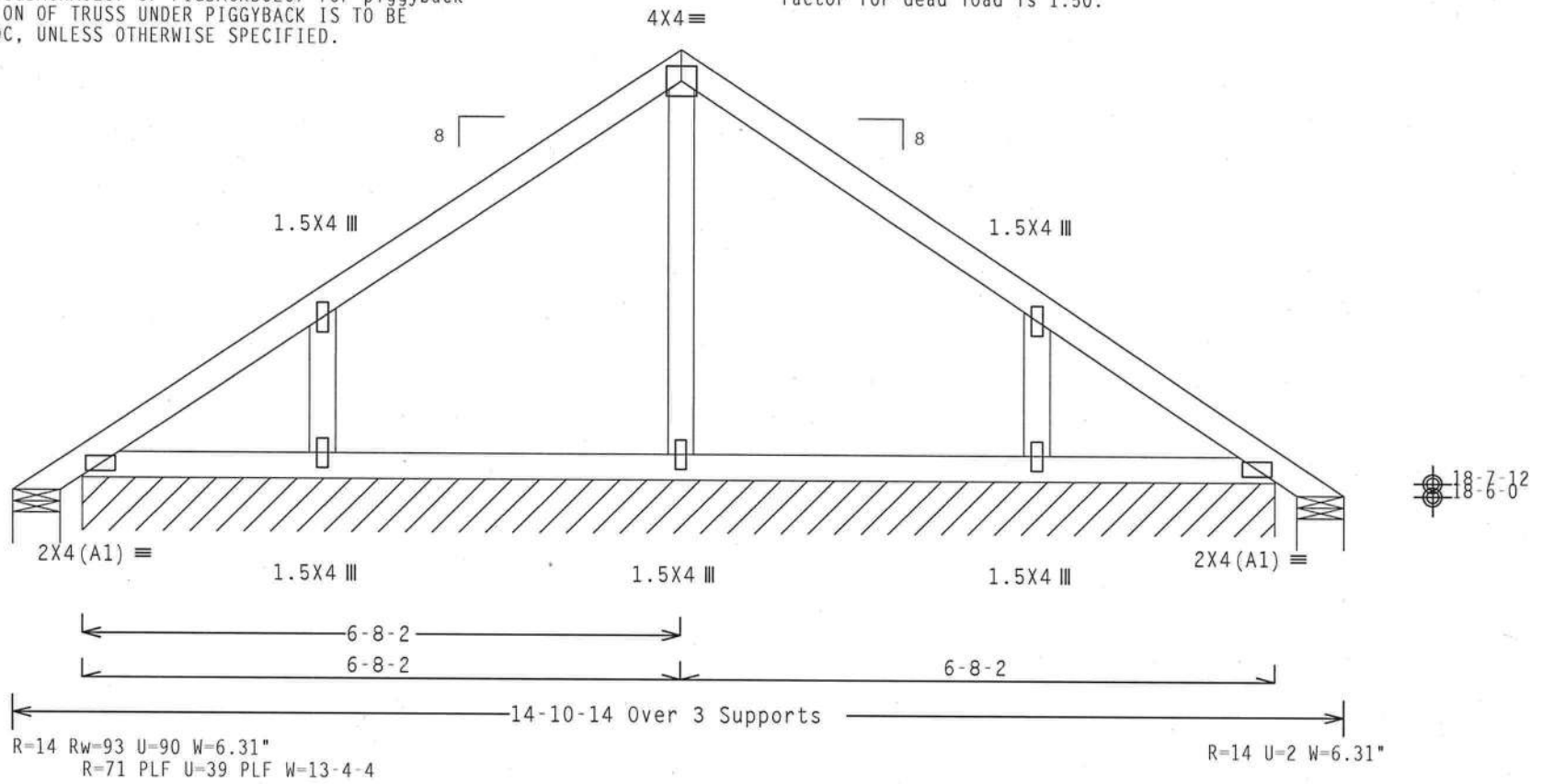
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 20.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpi(+/-)=0.18

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
'08

TC LL	20.0	PSF	REF R8228- 50311
TC DL	10.0	PSF	DATE 03/07/08
BC DL	10.0	PSF	DRW HCUSR8228 08067136
BC LL	0.0	PSF	HC-ENG JB/DF
TOT.LD.	40.0	PSF	SEQN- 78365
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - P2)

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

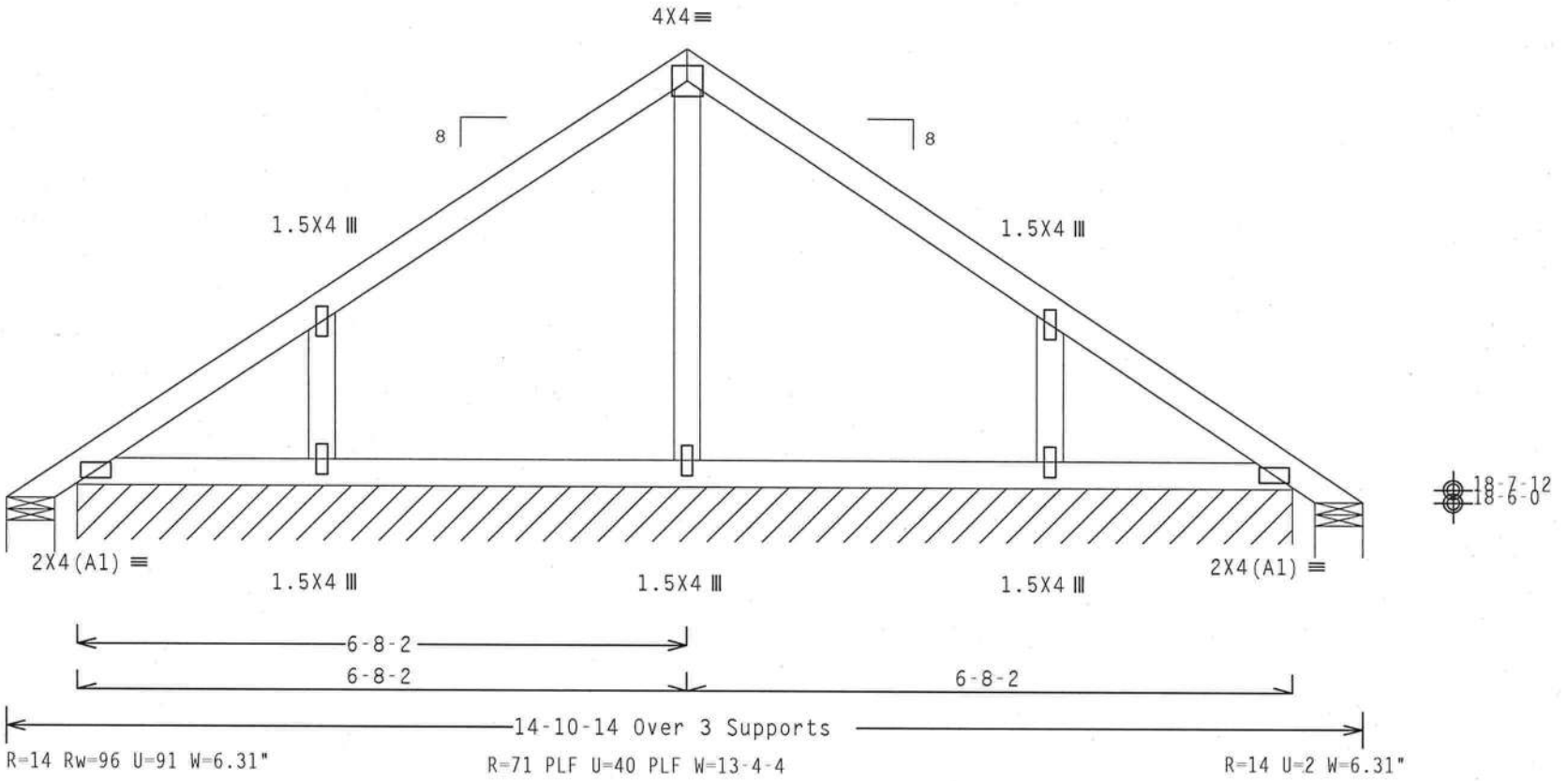
110 mph wind, 20.98 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

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

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 7.45
TC - From 64 PLF at 7.45 to 64 PLF at 14.91
BC - From   4 PLF at 0.00 to   4 PLF at 14.91

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.37.0521 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
'07 '08

TC LL	20.0 PSF	REF R8228- 50312
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067122
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 15596 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

110 mph wind, 20.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpi(+/-)=0.18

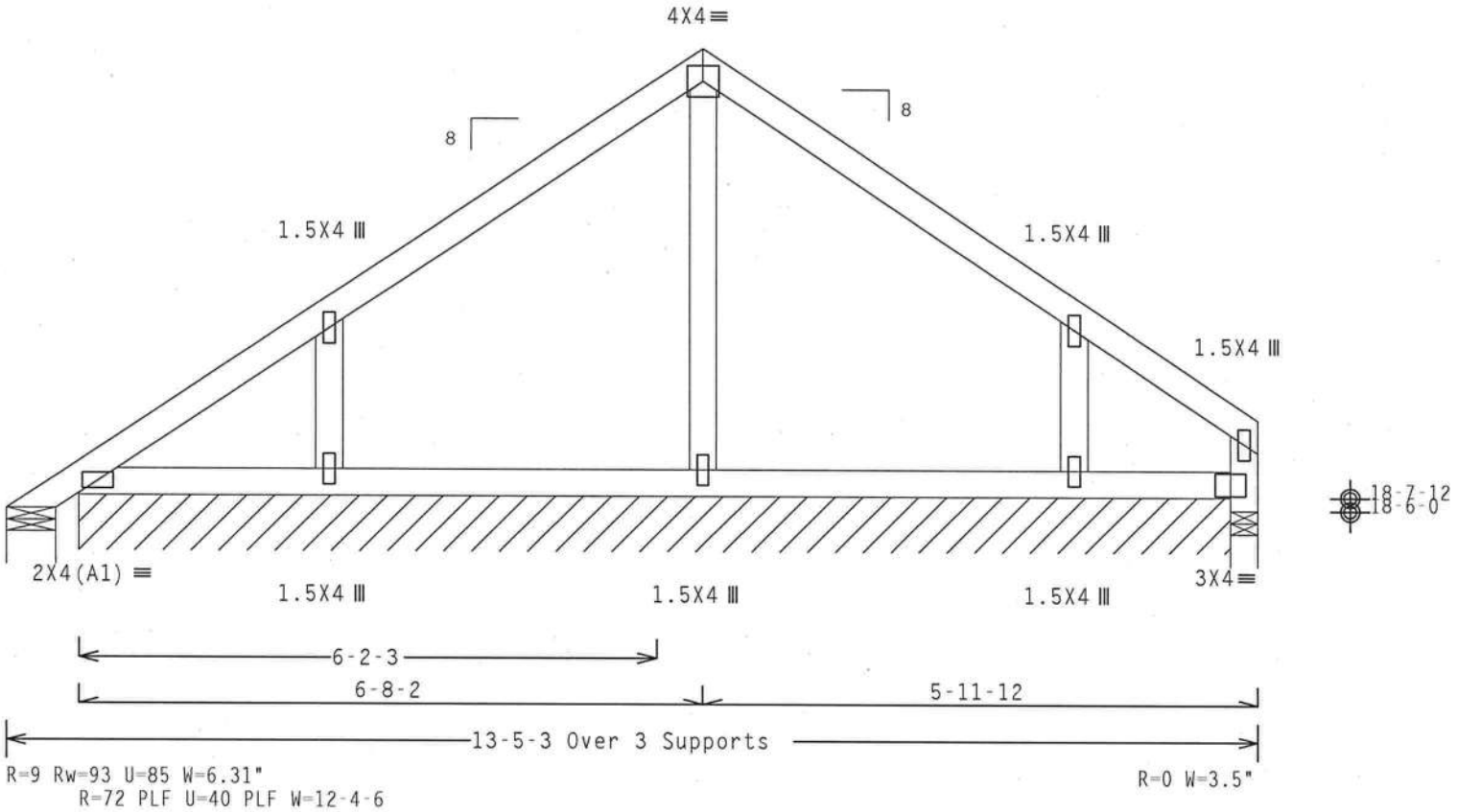
Wind reactions based on MWFRS pressures.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 7.45
TC - From 64 PLF at 7.45 to 64 PLF at 13.43
BC - From 4 PLF at 0.00 to 4 PLF at 13.43

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0.278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 07 '08

TC LL	20.0 PSF	REF R8228- 50313
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067137
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78375
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

110 mph wind, 20.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

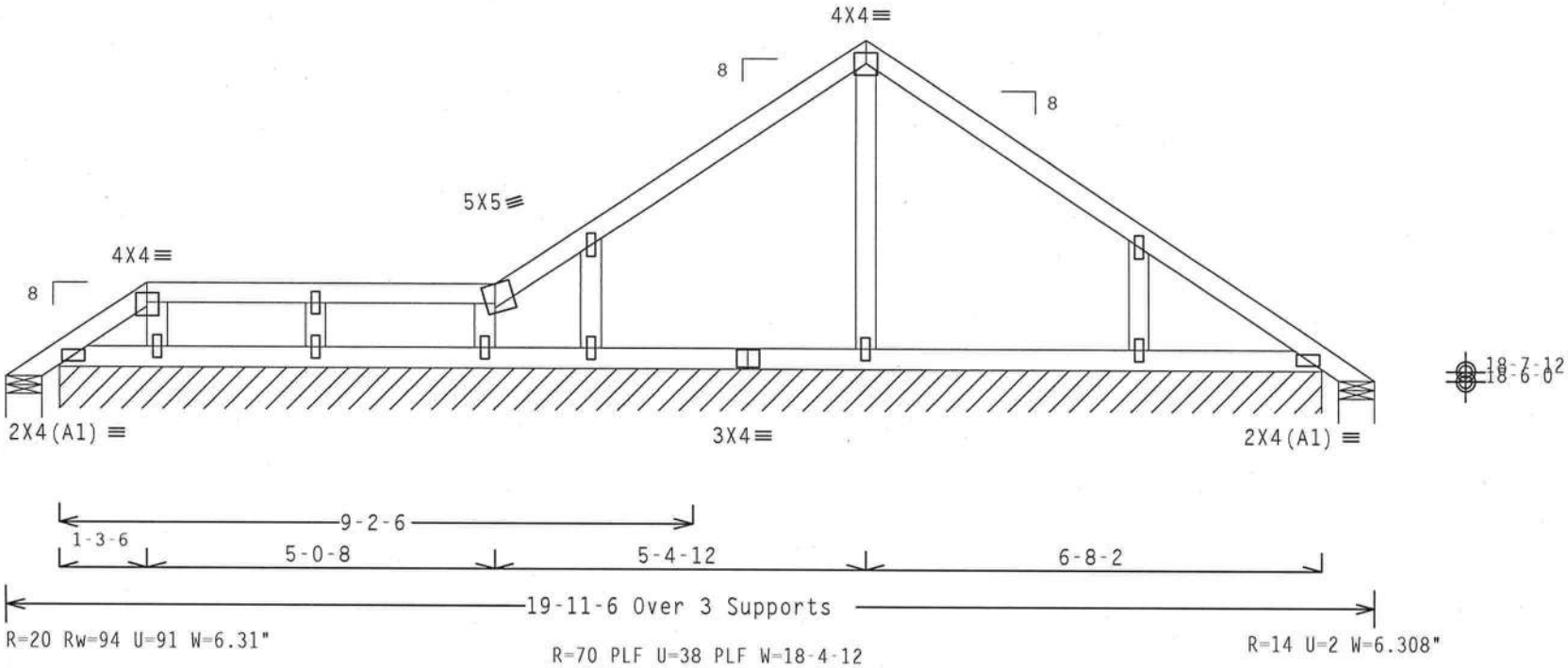
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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

TC - From	64 PLF	at	0.00	to	64 PLF	at	2.05
TC - From	64 PLF	at	2.05	to	64 PLF	at	7.10
TC - From	64 PLF	at	7.10	to	64 PLF	at	12.49
TC - From	64 PLF	at	12.49	to	64 PLF	at	19.95
BC - From	4 PLF	at	0.00	to	4 PLF	at	19.95

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



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) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.375"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50314
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067138
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78380
DUR:FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

110 mph wind, 20.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

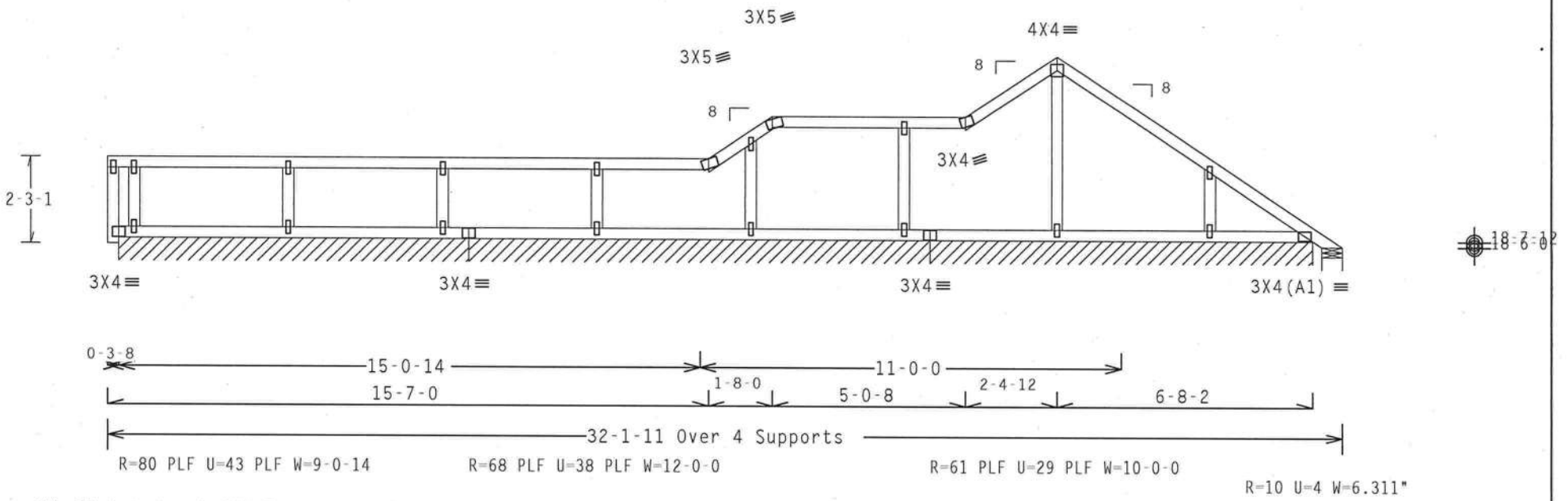
Left end vertical not exposed to wind pressure.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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

TC - From	64 PLF	at	0.00	to	64 PLF	at 15.58
TC - From	64 PLF	at	15.58	to	64 PLF	at 17.25
TC - From	64 PLF	at	17.25	to	64 PLF	at 22.29
TC - From	64 PLF	at	22.29	to	64 PLF	at 24.69
TC - From	64 PLF	at	24.69	to	64 PLF	at 32.14
BC - From	4 PLF	at	0.00	to	4 PLF	at 32.14

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
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FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50315
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067144
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78401
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

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

110 mph wind, 21.18 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

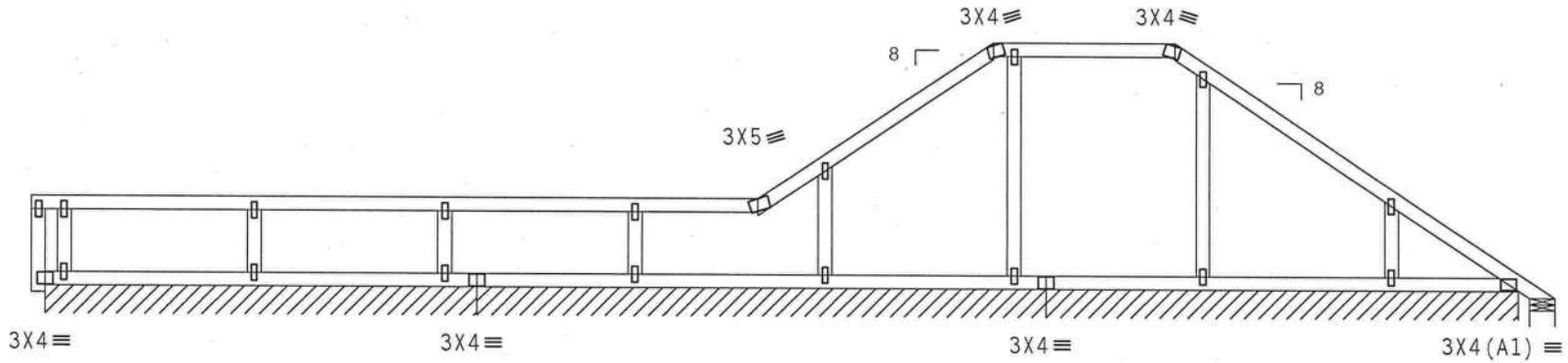
Left end vertical not exposed to wind pressure.

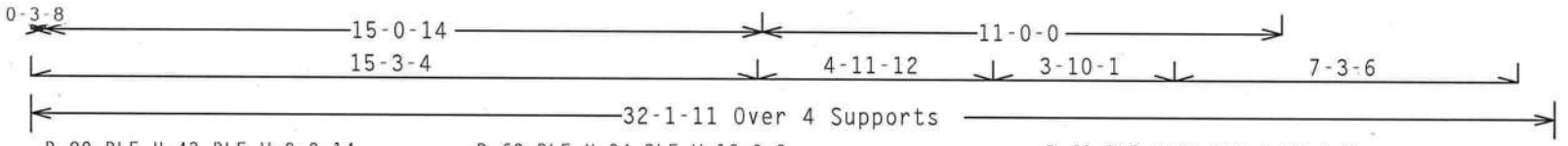
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

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

TC - From	64 PLF	at	0.00	to	64 PLF	at 15.27
TC - From	64 PLF	at	15.27	to	64 PLF	at 20.25
TC - From	64 PLF	at	20.25	to	64 PLF	at 24.09
TC - From	64 PLF	at	24.09	to	64 PLF	at 32.14
BC - From	4 PLF	at	0.00	to	4 PLF	at 32.14

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





R=80 PLF U=43 PLF W=9-0-14 R=68 PLF U=34 PLF W=12-0-0 R=61 PLF U=34 PLF W=10-0-0

R=8 Rw=12 U=10 W=6.311"

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) 7.36.043 QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0	PSF	REF R8228- 50316
TC DL	10.0	PSF	DATE 03/07/08
BC DL	10.0	PSF	DRW HCUSR8228 08067155
BC LL	0.0	PSF	HC-ENG JB/DF
TOT.LD.	40.0	PSF	SEQN- 78397
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1TFL8228Z03

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

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

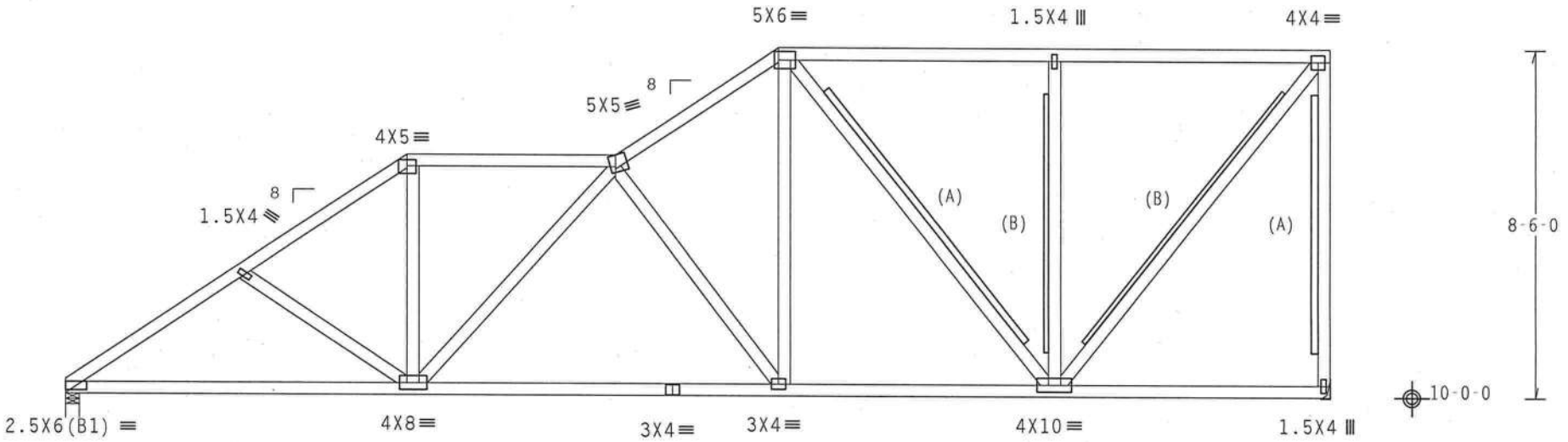
(A) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

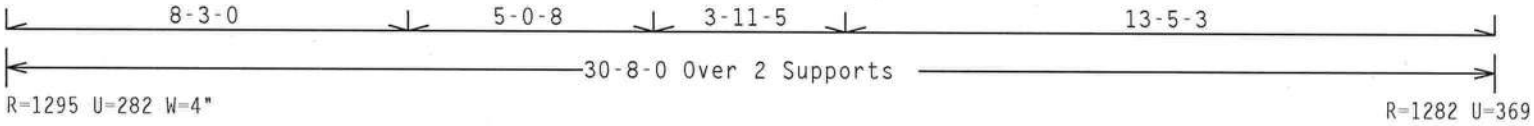
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04[illegible] QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50317
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067110
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78443
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

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

End verticals not exposed to wind pressure.

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

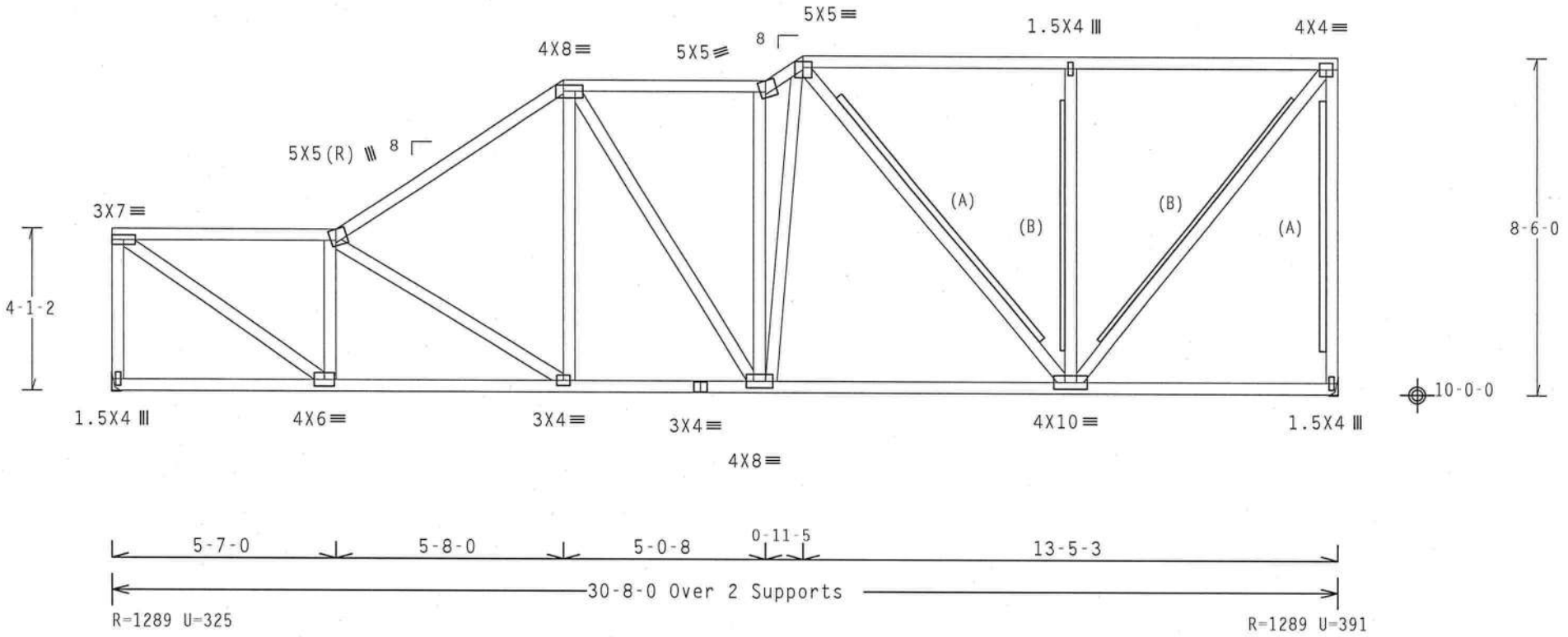
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 16.30 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

Provide for complete drainage of roof.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/E/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF R8228- 50318
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067111
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78455
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H9C)

Top chord 2x4 SP #2 Dense :T5 2x6 SP #2:
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

TC - From	64 PLF	at 0.00	to	64 PLF	at 10.58
TC - From	64 PLF	at 10.58	to	64 PLF	at 12.19
TC - From	64 PLF	at 12.19	to	64 PLF	at 22.19
TC - From	64 PLF	at 22.19	to	64 PLF	at 30.67
TC - From	364 PLF	at 30.67	to	364 PLF	at 32.14
TC - From	364 PLF	at 32.14	to	364 PLF	at 41.33
BC - From	20 PLF	at 0.00	to	20 PLF	at 16.00
BC - From	20 PLF	at 16.00	to	20 PLF	at 25.33
BC - From	20 PLF	at 25.33	to	20 PLF	at 41.33

Wind reactions based on MWFRS pressures.

(A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE
LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS").
TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR
LOAD MAGNITUDES AND LOCATIONS.

Bearing blocks: Nail type: 10d_Box_or_Gun_(0.128"x3",_min.)_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
2	41.000'	1	12"	5	Rigid Surface

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK0207 for additional information.

110 mph wind, 15.44 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

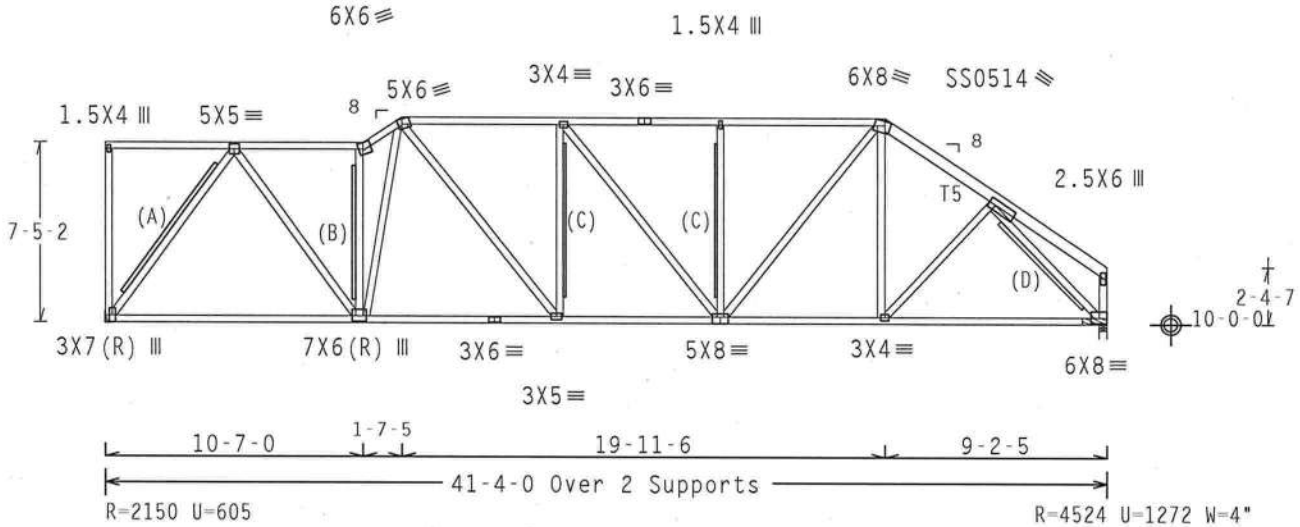
End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.16" DL: 0.25" recommended camber 3/8"

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

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

(D) 2x8 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. 18 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 [illegible] QTY:1 FL/-/4/-/E/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

TC LL	20.0 PSF	REF	R8228- 50319
TC DL	10.0 PSF	DATE	03/07/08
BC DL	10.0 PSF	DRW	HCUSR8228 08067112
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	78470
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TFL8228Z03

(8-055--WADE WILLIS CONSTRUCTION WADE WILLIS -- , ** - H11C)

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

End verticals not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

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

(A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

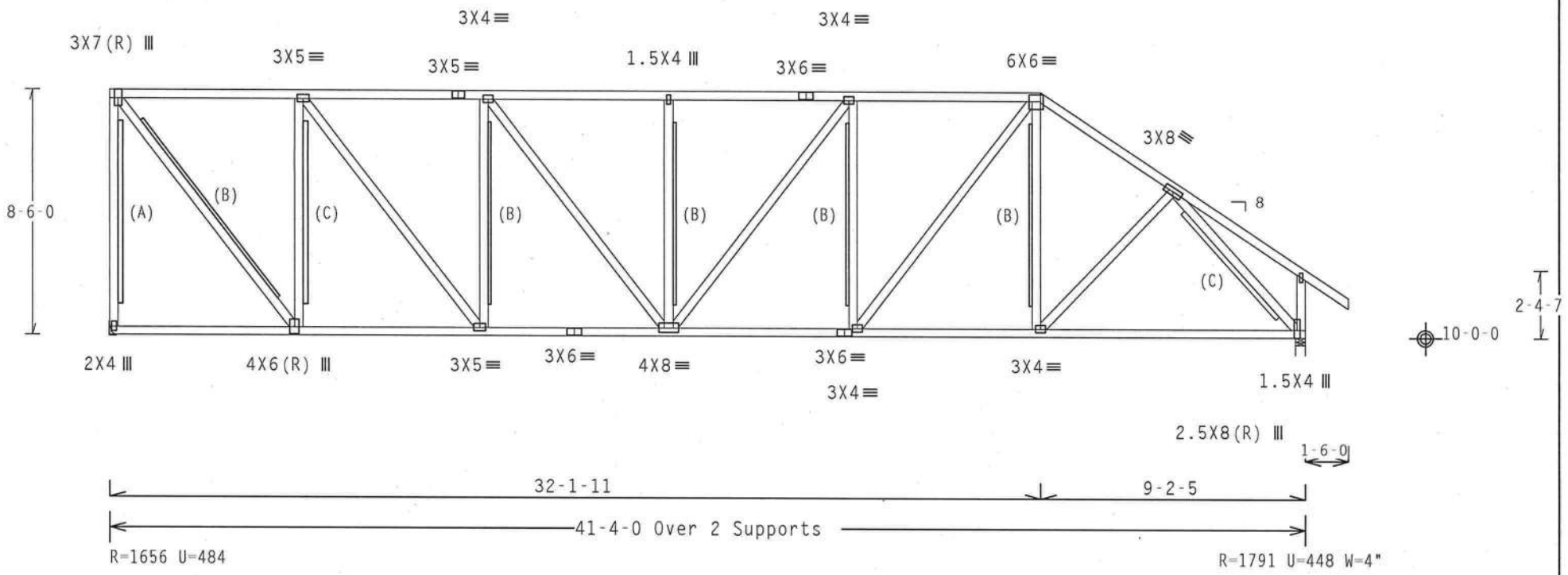
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Max JT VERT DEFL: LL: 0.11" DL: 0.17" recommended camber 1/4"

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:1 FL/-/4/-/E/R/- Scale =.1875"/Ft.

ALPINE
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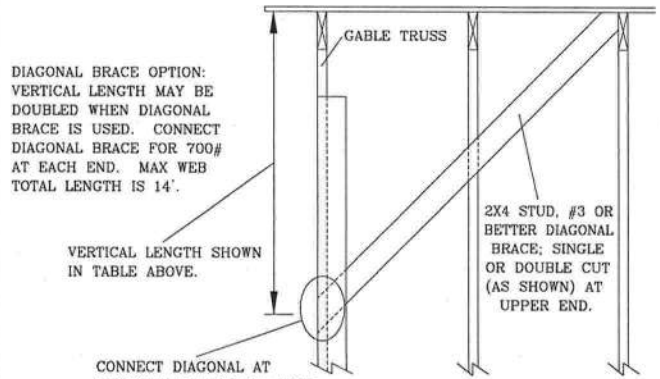
DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
07 '08

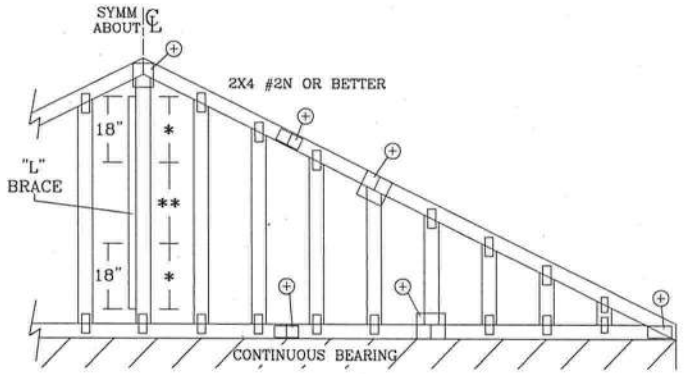
TC LL	20.0 PSF	REF R8228- 50320
TC DL	10.0 PSF	DATE 03/07/08
BC DL	10.0 PSF	DRW HCUSR8228 08067114
BC LL	0.0 PSF	HC-ENG JB/DF
TOT.LD.	40.0 PSF	SEQN- 78490
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFL8228Z03

ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES

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

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

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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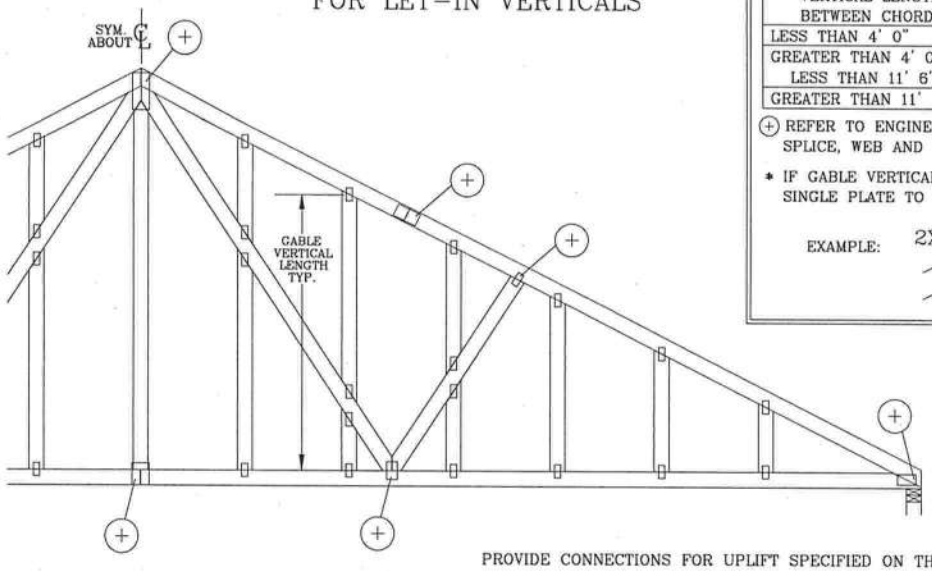
DOUGLAS FLEMING LICENSE No. 66648 '07 '08 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11030
DATE	2/23/07
DRWG	A11030EE0207
-ENG	

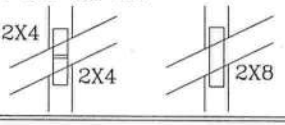
GABLE DETAIL
FOR LET-IN VERTICALS

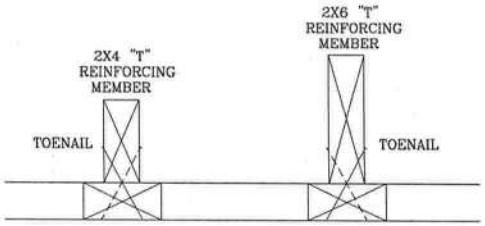


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

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

EXAMPLE: 



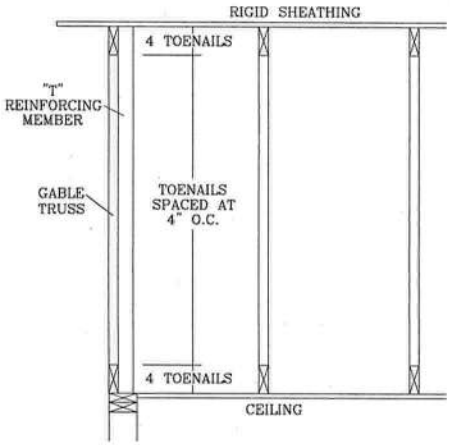
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207

ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08515EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08530EC0207

ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08515EE0207, A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08530EE0207

ASCE 7-05 GABLE DETAIL DRAWINGS
A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08515E50207, A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08530E50207

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

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
/TW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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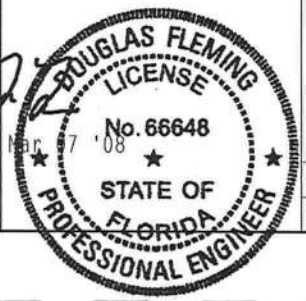


MAR 07 '08

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

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLLETIN0207
-ENG	DLJ/KAR

PIGGYBACK DETAIL

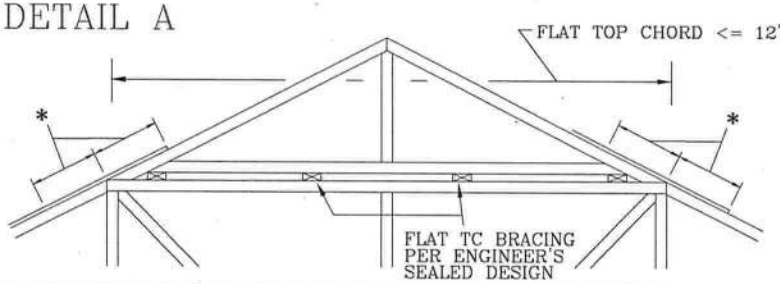
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02 OR ASCE 7-05, CLOSED BLGD, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

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.

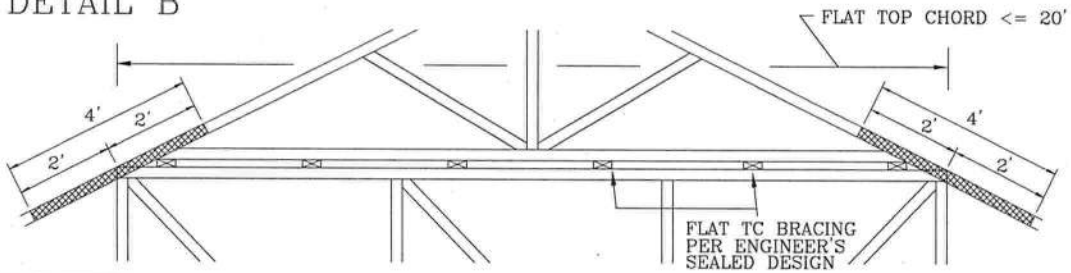
DETAIL A



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.

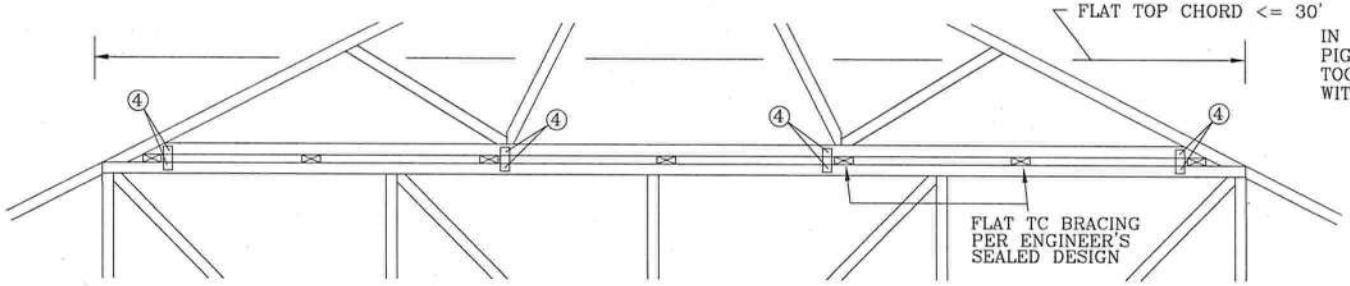
DETAIL B



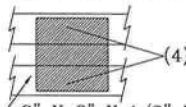
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"X3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

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

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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DOUGLAS FLEMING
LICENSE
Mar 07 08 No. 66648
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	PIGBACKA0207
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.

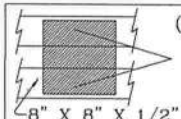
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, ASCE 7-02 OR ASCE 7-05, CLOSED BLGD, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



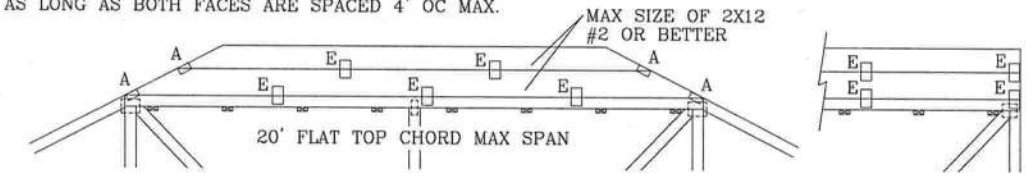
(4) 6d BOX (0.099"X 2.",MIN) NAILS.

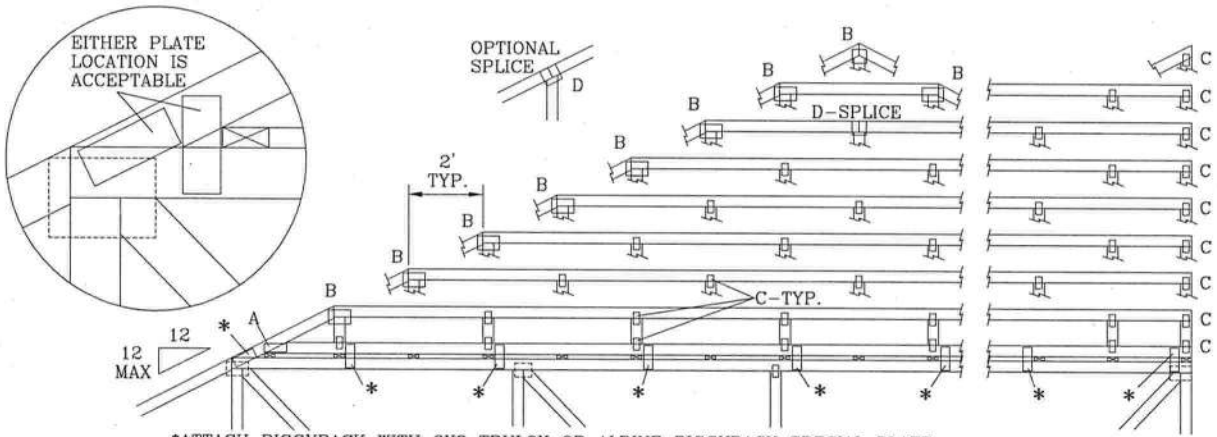
8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 6d BOX (0.099"X 2.",MIN) NAILS PER GUSSET.

(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.



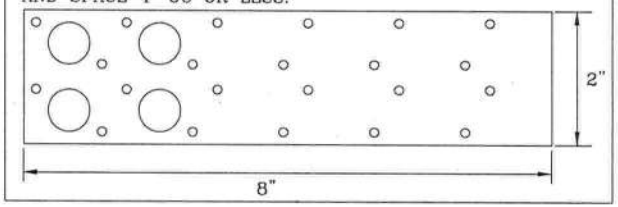


*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

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

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POMPANO BEACH, FLORIDA

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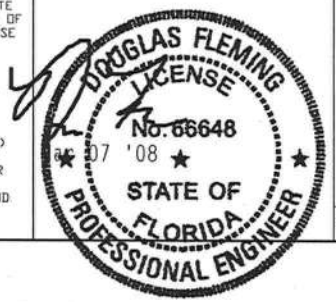


MAX LOADING	
55 PSF AT 1.33 DUR. FAC.	
50 PSF AT 1.25 DUR. FAC.	
47 PSF AT 1.15 DUR. FAC.	
SPACING	24.0"

REF	PIGGYBACK
DATE	2/23/07
DRWG	PIGBACKB0207
-ENG	DLJ/KAR

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.

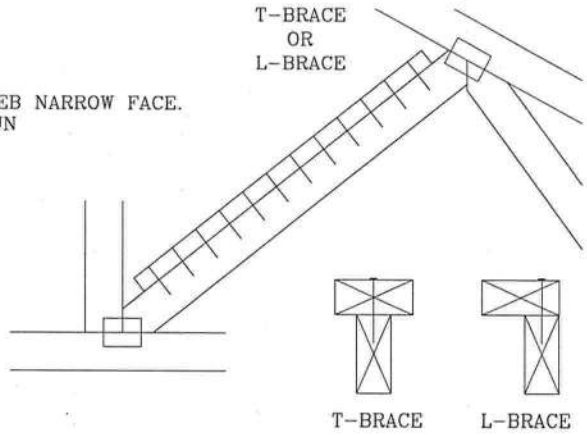
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

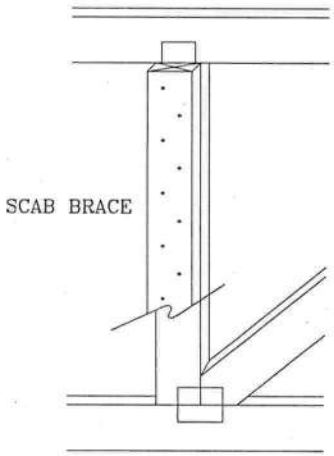
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) 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 BOX OR GUN (0.128"x 3.",MIN) NAILS.
AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

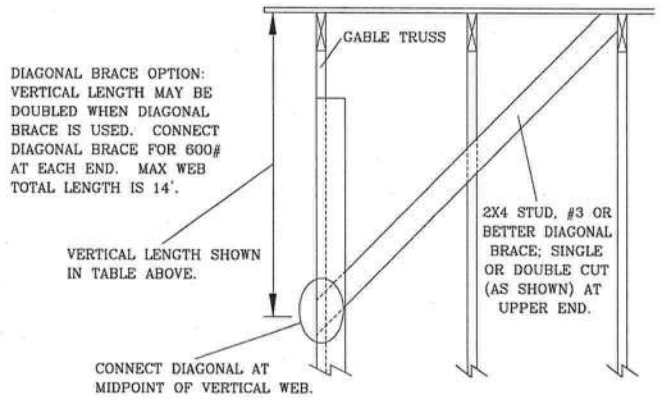
SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

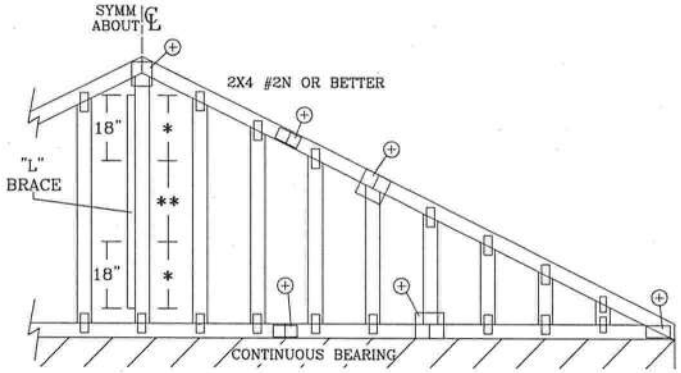
DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES

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

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

ALPINE

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POMPANO BEACH, FLORIDA

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Mar 07 '08

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	2/23/07
DRWG	A11015EE0207
-ENG	

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR SBC 110 MPH, ASCE 7-93 110 MPH OR ASCE 7-98, ASCE 7-02 OR ASCE 7-05 130 MPH. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

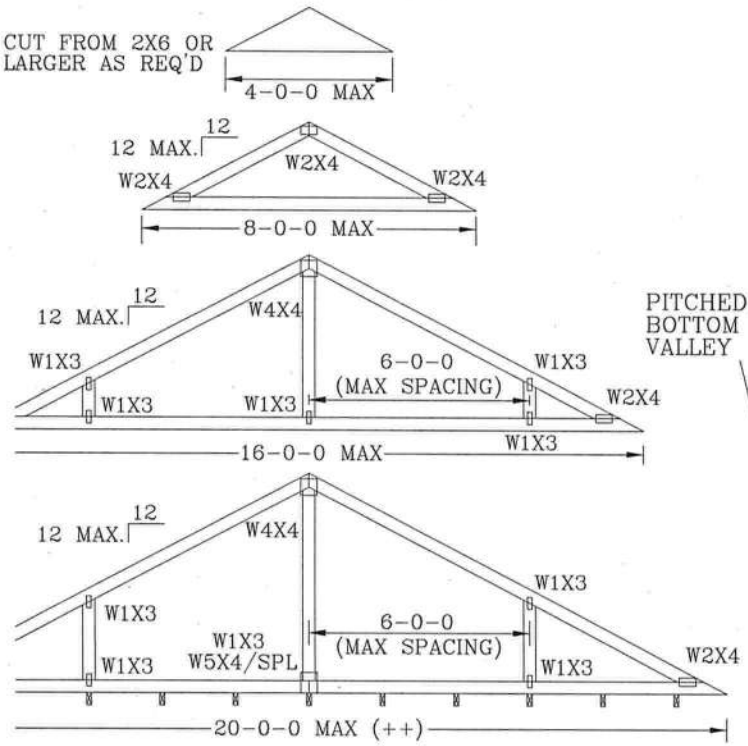
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

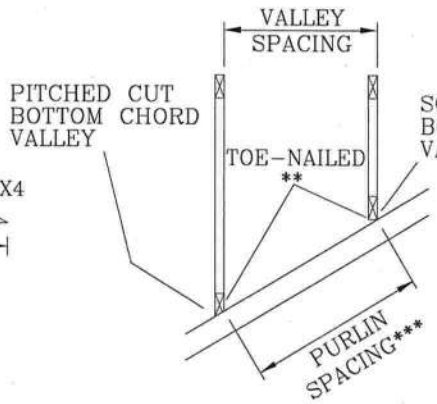
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

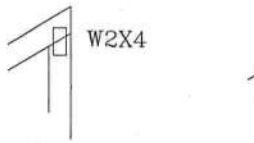
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

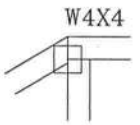
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.

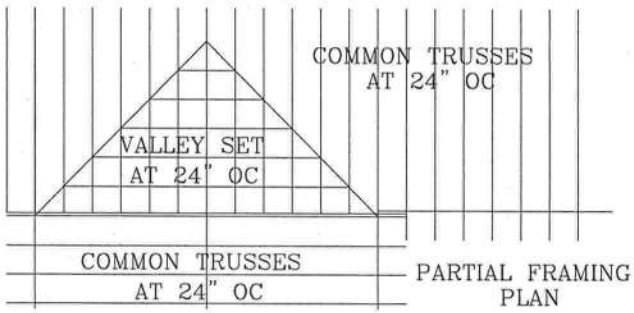


SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.









THIS DRAWING REPLACES DRAWING A105

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER Mar 07 '08

TC LL	30	30	40 PSF	
TC DL	20	15	7 PSF	
BC DL	10	10	10 PSF	
BC LL	0	0	0 PSF	
TOT. LD.	60	55	57 PSF	
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24"		

REF	VALLEY DETAIL
DATE	2/23/07
DRWG	VALTRUSS0207
-ENG	MLH/KAR

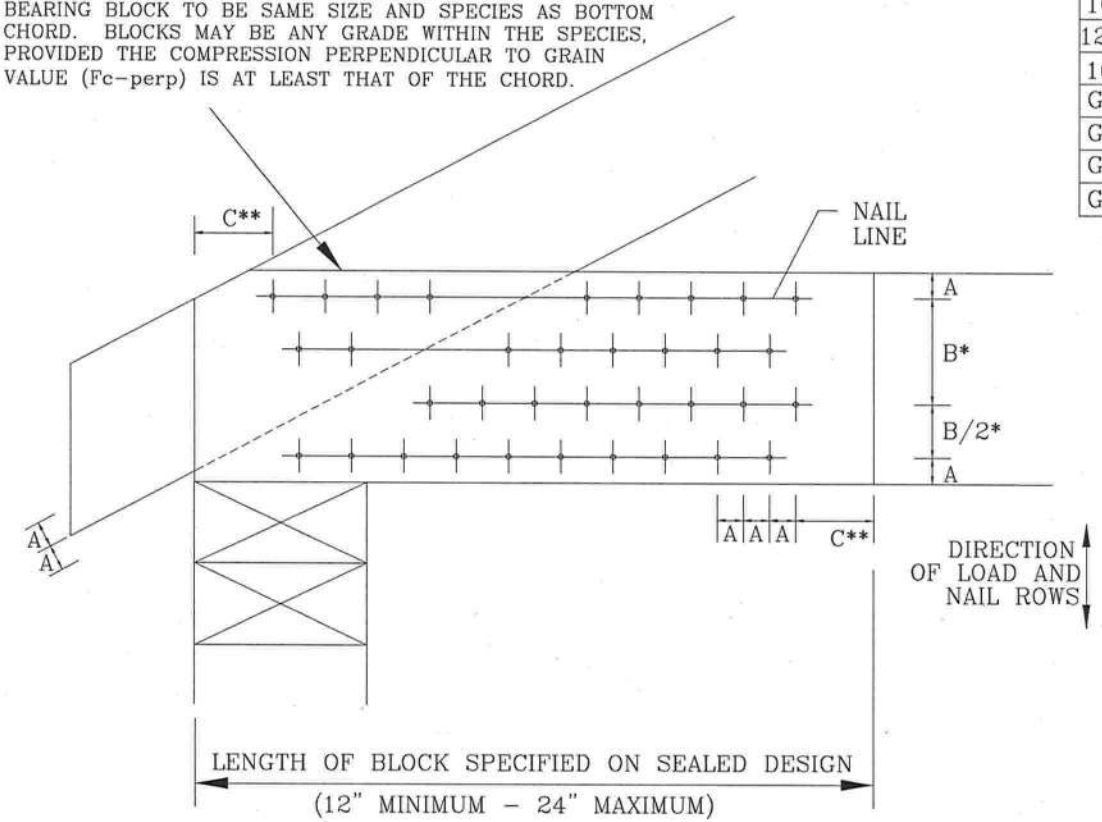
BEARING BLOCK NAIL SPACING DETAIL

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

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

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

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



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE 2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X 2.5",MIN)	3	6	9	12	15
10d BOX (0.128"X 3.",MIN)	3	5	7	10	12
12d BOX (0.128"X 3.25",MIN)	3	5	7	10	12
16d BOX (0.135"X 3.5",MIN)	3	5	7	10	12
20d BOX (0.148"X 4.",MIN)	2	4	5	6	8
8d COMMON (0.131"X 2.5",MIN)	3	5	7	10	12
10d COMMON (0.148"X 3.",MIN)	2	4	6	8	10
12d COMMON (0.148"X 3.25",MIN)	2	4	6	8	10
16d COMMON (0.162"X 3.5",MIN)	2	4	6	8	10
GUN (0.120"X 2.5",MIN)	3	6	8	11	14
GUN (0.131"X 2.5",MIN)	3	5	7	10	12
GUN (0.120"X 3.",MIN)	3	6	8	11	14
GUN (0.131"X 3.",MIN)	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES A	B*	C**
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X 3.",MIN)	7/8"	1 5/8"	2"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X 4.",MIN)	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
10d COMMON (0.148"X 3.",MIN)	1"	1 7/8"	2 1/4"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"
16d COMMON (0.162"X 3.5",MIN)	1'	2"	2 1/2"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
GUN (0.120"X 3.",MIN)	3/4"	1 1/2"	1 7/8"
GUN (0.131"X 3.",MIN)	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312 ALEXANDRIA, VA. 22314) 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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, 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. ITW, BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W,K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Apr 07 '08

REF	BEARING BLOCK
DATE	2/23/07
DRWG	CNBRGBLK0207
-ENG	SJP/KAR

FEES:

ROAD IMPACT FEE 10100003632400 $1,046.00 CODE 210 UNIT 1

EMS IMPACT FEE 10300003632210 $29.88

FIRE PROTECTION IMPACT FEE 10200003632220 $78.63

CORRECTIONS IMPACT FEE 00100003632200 $409.16

SCHOOL IMPACT FEE 00100003632900 $1,500.00

TOTAL FEES CHARGED $3,063.67 CHECK NUMBER 2039

Notice of Prevention for Subterranean Termites
(As required by Florida Building Code (FBC) 104.2.6)

Live Oak PEST CONTROL, INC. A locally owned company serving you since 1972

17856 U.S. 129 • McALPIN, FLORIDA 32062
(386) 362-3887 • 1-800-771-3887 • Fax: (386) 364-3529

PERMIT # 000026860

MICHAEL + STEPHANIE FOREMAN 322 NW COUNTRY LAKE DR. LAKE CITY FL

Notice of Prevention for Subterranean Termites
(As required by Florida Building Code (FBC) 104.2.6)

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00002686O

Foreman - 322 NW Country Lake Dr. Lake City, FL
Address of Treatment or Lot/Block of Treatment

3/6/09	2:00 pm	Daryl B.
Date	Time	Applicator
Termidor	Fipronil	104
Product Used	Chemical used *(active ingredient)*	Number of gallons applied
.06%		260
Percent Concentration	Area treated *(square feet)*	Linear feet treated

Horizontal - Vertical - Final Rx
Stage of treatment *(Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)*

As per 104.2.6 - If soil chemical barrier method for Subterranean termite prevention is used, final exterior treatment shall be completed prior to final building approval.
If this notice is for the final exterior treatment, initial and date this line. DB 3/6/09

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PERMIT # 00002686O

Michael + Stephanie Foreman 322 N.W. Country Lake Dr. Lake City FL
Address of Treatment or Lot/Block of Treatment

2-13-09	10:20	Aaron J Cummings
Date	Time	Applicator
Termidor	Fipronil	16
Product Used	Chemical used *(active ingredient)*	Number of gallons applied
.06%		40
Percent Concentration	Area treated *(square feet)*	Linear feet treated

Vertical / Adjoining Slab / Driveway Apron
Stage of treatment *(Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)*

As per 104.2.6 - If soil chemical barrier method for Subterranean termite prevention is used, final exterior treatment shall be completed prior to final building approval.
If this notice is for the final exterior treatment, initial and date this line.