

DATE 04/09/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025708

APPLICANT WADE WILLIS PHONE 623-3331
ADDRESS P.O. BOX 1546 LAKE CITY FL 32056
OWNER WADE WILLIS PHONE 623-3331
ADDRESS 683 SW CHESTERFIELD CIRCLE LAKE CITY FL 32024
CONTRACTOR WADE WILLIS PHONE 623-3331
LOCATION OF PROPERTY 90W,TL SISTERS WELCOME RD,TL KICKLIGHTER,TL CANNON CREEK DR,
TR CHESTERFIELD,TR STOP SIGN,2ND CURVE 2ND LOT ON RIGHT
TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 72150.00
HEATED FLOOR AREA 1443.00 TOTAL AREA 1898.00 HEIGHT 1 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING RSF-2 MAX. HEIGHT 17
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO.

PARCEL ID 24-4S-16-03117-159 SUBDIVISION CROSSWINDS
LOT 59 BLOCK PHASE UNIT TOTAL ACRES

000001364 CBC1252491
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 07-232 BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident
COMMENTS: ONE FOOT ABOVE THE ROAD

Check # or Cash 1327

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 365.00 CERTIFICATION FEE \$ 9.49 SURCHARGE FEE \$ 9.49
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 483.98
INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

For Office Use Only Application # 0703-77 Date Received 3/27 By JW Permit # 1364/25708
 Application Approved by - Zoning Official BZK Date 02.09.07 Plans Examiner OKJTH Date 7-29-07
 Flood Zone XP-plt Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES, Low Dev.

Comments _____

☒ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☒ Development Permit

Name Authorized Person Signing Permit Wade Willis Fax 961 9963
 Address PO Box 1546 Lake City FL 32056 Phone 623-3331

Owners Name Same Phone _____

911 Address 683 SW CHESTERFIELD Circle, L.C. FL 32024

Contractors Name Wade Willis Construction Phone _____

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 CASH

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

Property ID Number 24-45-16-03117-159 Estimated Cost of Construction \$ 100,000

Subdivision Name Crosswinds Lot 59 Block _____ Unit _____ Phase 2

Driving Directions Sisters welcome Rd to cannon creek rd. Take cannon creek east (1 1/2 miles past cannon creek sub) Cross winds is on the right. 1st house on right on chesterfield inside Crosswinds

Type of Construction single res new constr Number of Existing Dwellings on Property 0

Total Acreage .51 1/2 Lot Size .57 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 35 Side 15 Side 35 Rear 139

Total Building Height 17 Number of Stories 1 Heated Floor Area 1443 Roof Pitch 6/12

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.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 27th day of March 2007.

Personally known ☒ or Produced Identification _____

Contractor Signature
 Contractors License Number CBC 1252491
 Competency Card Number _____

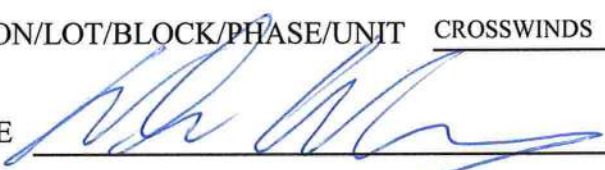


Notary Signature

(Revised Sept. 2006)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001364

DATE 04/09/2007 PARCEL ID # 24-4S-16-03117-159
APPLICANT WADE WILLIS PHONE 623-3331
ADDRESS P.O. BOX 1546 LAKE CITY FL 32056
OWNER WADE WILLIS PHONE 623-3331
ADDRESS 683 SW CHESTERFIELD CIRCLE LAKE CITY FL 32024
CONTRACTOR WADE WILLIS PHONE 623-3331
LOCATION OF PROPERTY 90W, TL ON SISTERS WELCOME RD, TL KICKLIGHTER, TL ON CANNON
CREEK DR. TR ON CHESTERFIELD, TO STOP SIGN, TURN RIGHT, ON
THE SECOND CURVE, 2ND HOUSE ON RIGHT
SUBDIVISION/LOT/BLOCK/PHASE/UNIT CROSSWINDS 59
SIGNATURE 

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

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

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

Amount Paid 25.00



NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

0703-27
***THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.***

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

Tax Parcel ID Number 24-45-16-03117-139

PERMIT NUMBER _____

1. Description of property: (legal description of the property and street address or 911 address)
683 SW Chesterfield Circle

Inst:2007007552 Date:04/03/2007 Time:11:53
J.J. DC, P. Dewitt Cason, Columbia County B:1115 P:1323

2. General description of Improvement: single res new construction

3. Owner Name & Address Wade Willis Construction
PO Box 1546 Lake City, FL 32056

Interest in Property Owner

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name Wade Willis

Address PO Box 1546 Lake City, FL Phone Number _____

6. Surety Holders Name _____

Address _____ Phone Number _____

Amount of Bond _____

7. Lender Name _____

Address _____ Phone Number _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name _____ Phone Number _____

Address _____

9. In addition to himself/herself the owner designates _____

_____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

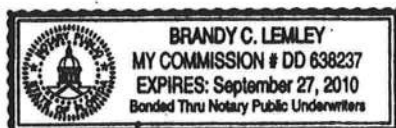
NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

[Signature]
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of april, 2007 3rd

NOTARY STAMP/SEAL

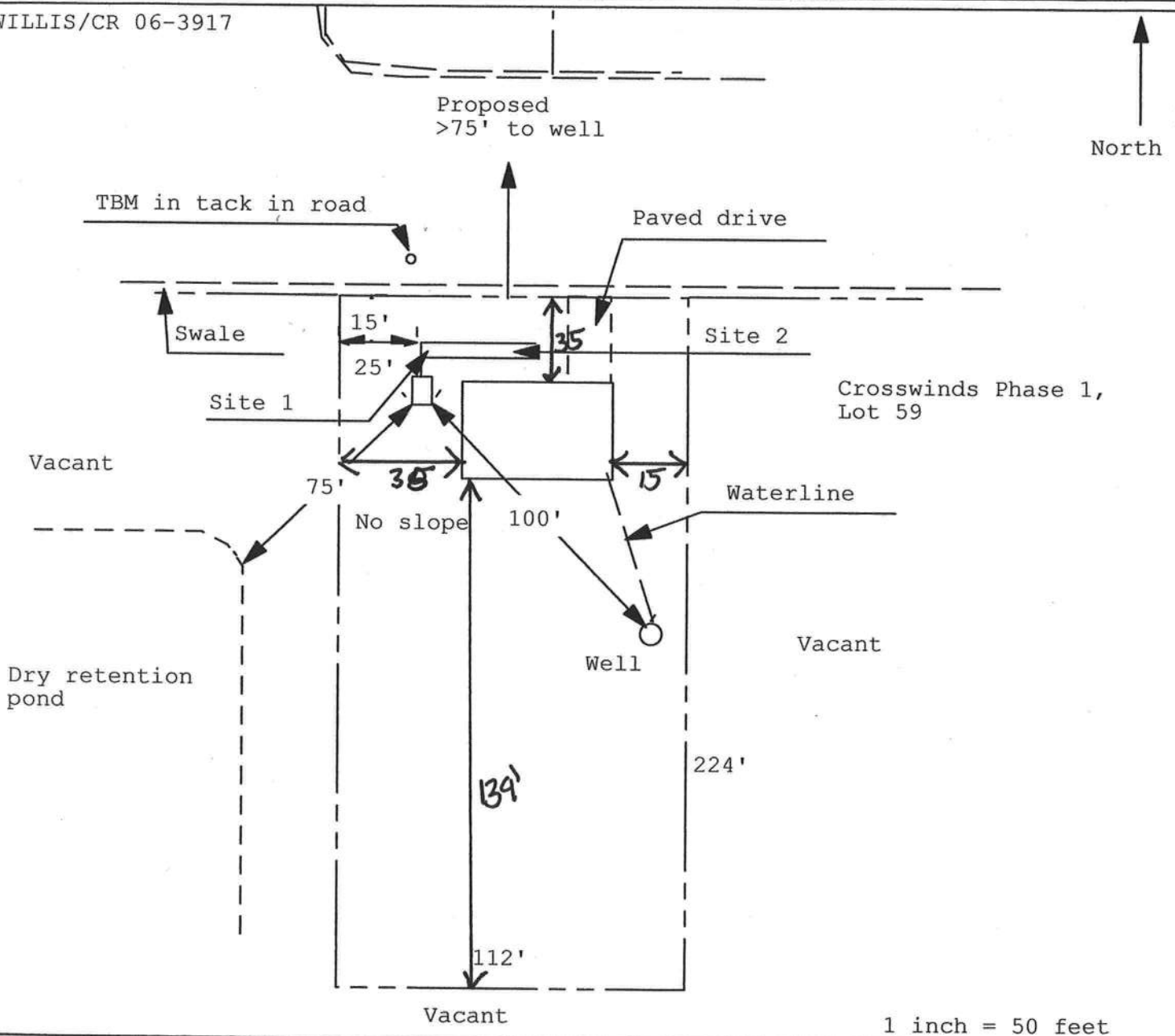


Brandy C Lemley
Signature of Notary

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WILLIS/CR 06-3917



1 inch = 50 feet

Site Plan Submitted By _____ Date _____
Plan Approved _____ Not Approved _____ Date _____

By _____ CPHU

Notes: _____

Columbia County Property Appraiser

DB Last Updated: 3/8/2007

Parcel: 24-4S-16-03117-159

2007 Proposed Values
[Tax Record](#)
[Property Card](#)
[Interactive GIS Map](#)
[Print](#)

Search Result: 1 of 1

Owner & Property Info

Owner's Name	WADE WILLIS CONSTRUCTION LLC		
Site Address	CHESTERFIELD		
Mailing Address	P O BOX 1546 LAKE CITY, FL 32056		
Use Desc. (code)	VACANT (000000)		
Neighborhood	24416.00	Tax District	2
UD Codes	MKTA06	Market Area	06
Total Land Area	0.570 ACRES		
Description	LOT 59 CROSSWINDS S/D PHASE 2. WD 1101-749		

GIS Aerial**Property & Assessment Values**

Mkt Land Value	cnt: (1)	\$45,500.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$45,500.00

Just Value	\$45,500.00
Class Value	\$0.00
Assessed Value	\$45,500.00
Exempt Value	\$0.00
Total Taxable Value	\$45,500.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
11/2/2006	1101/749	WD	V	Q		\$100,000.00

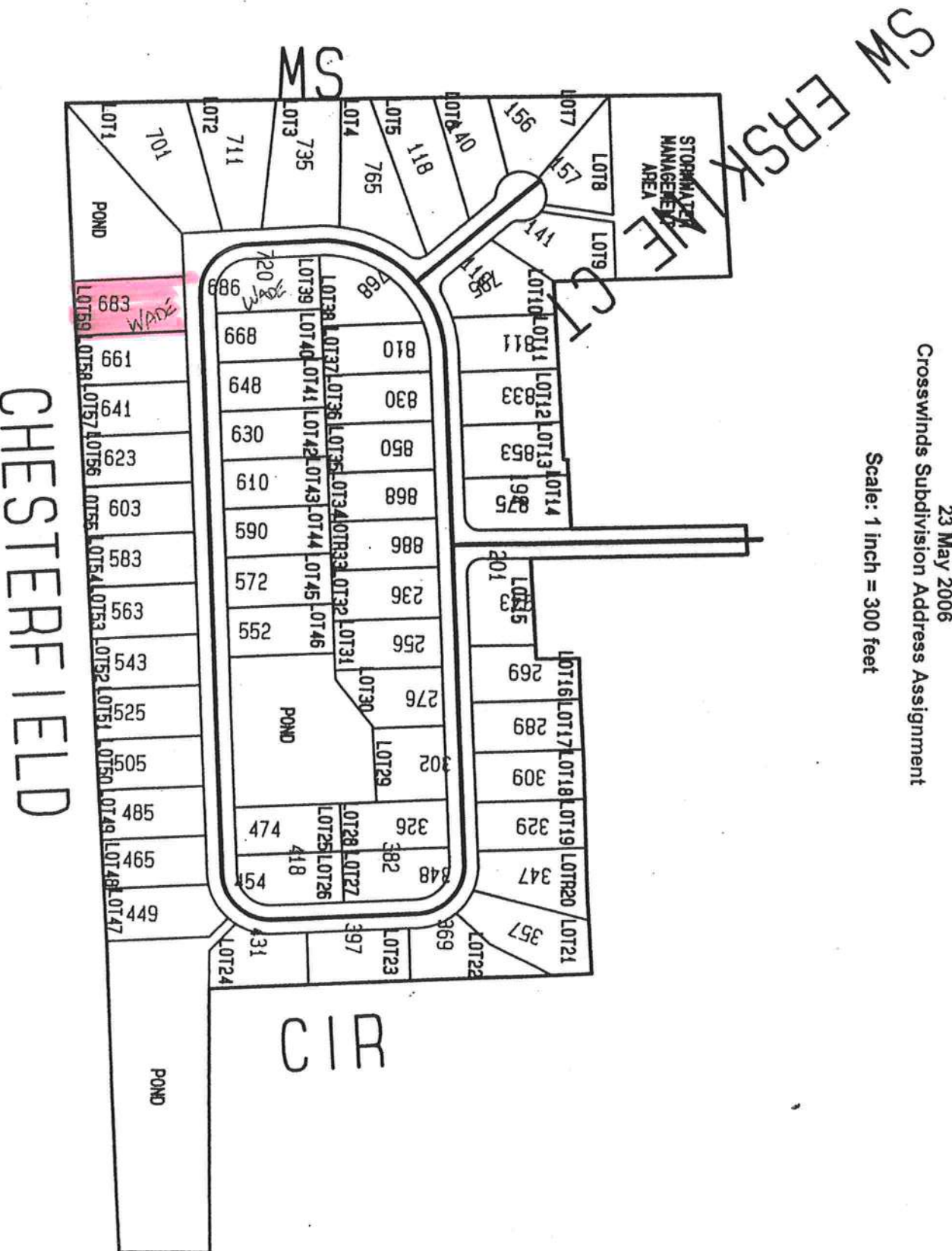
Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

23 May 2006

Crosswinds Subdivision Address Assignment

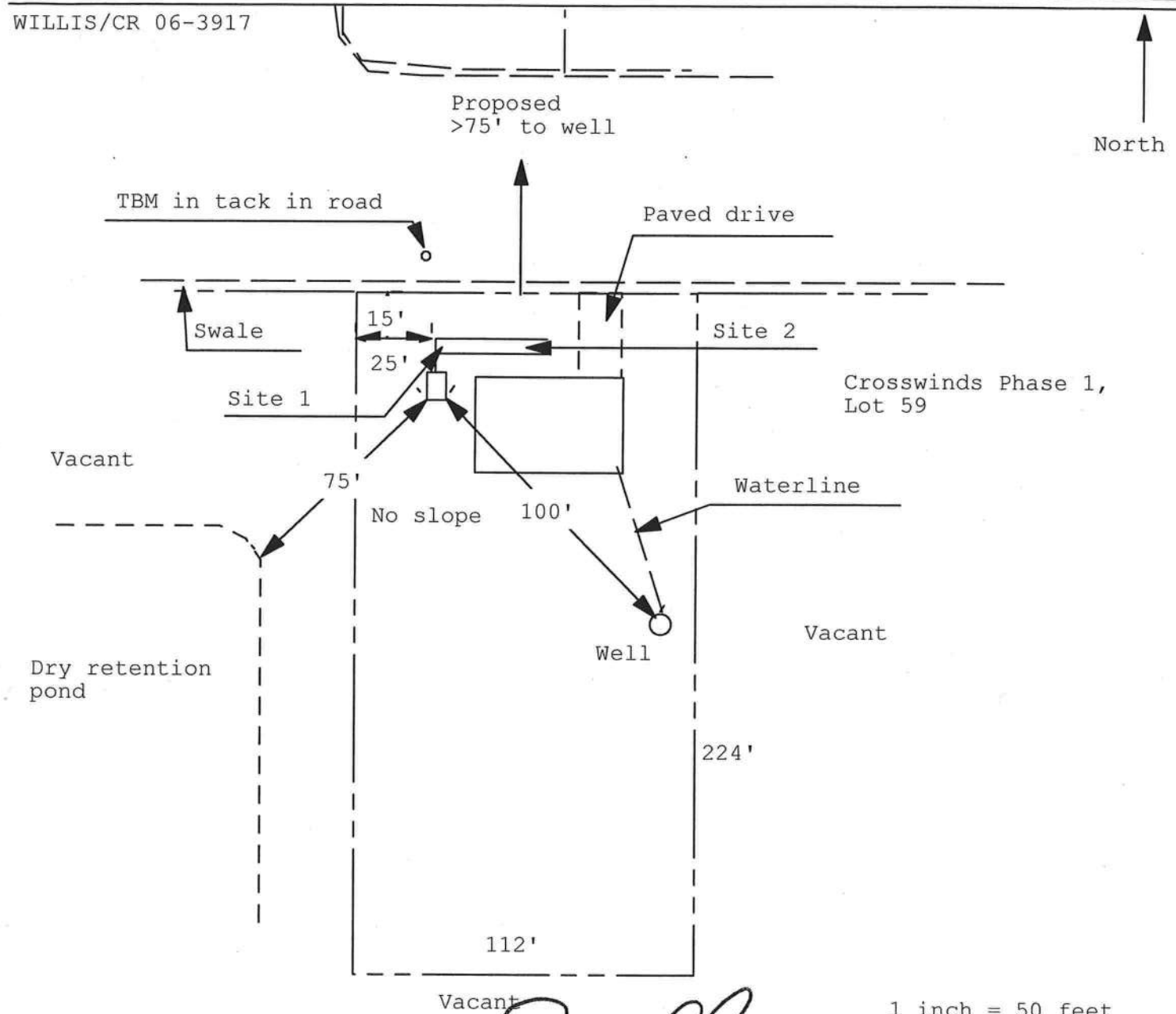
Scale: 1 inch = 300 feet



Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan
Permit Application Number: 07-232

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WILLIS/CR 06-3917



Site Plan Submitted By Paul L. Lyle Date 3/12/07
Plan Approved ☒ Not Approved ☐ Date 3/23/07

By Mr. A. Lyle Columbia CPHU

Notes: _____

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 06-593
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Inst:2006026346 Date:11/06/2006 Time:12:58

Doc Stamp-Deed : 700.00

A. 9. DC, P. Dewitt Cason, Columbia County B:1101 P:749

Property Appraiser's
Parcel Identification No. Part of R03117-000 & R03117-001

WARRANTY DEED

THIS INDENTURE, made this 2nd day of November, 2006, between DELTA OMEGA PROPERTIES, INC., a corporation existing under the laws of the State of Florida, whose post office address is: 3454 SW CR 242, Lake City, FL 32024 and having its principal place of business in the County of Columbia, State of Florida, party of the first part, and WADE WILLIS CONSTRUCTION, LLC, A Florida Limited Liability, whose Document No. is L04000040779 and FEI No. is 20124-550, whose post office address is: Post Office Box 1546, Lake City, FL 32056, of the State of Florida, party of the second part,

WITNESSETH: that the said party of the first part, for and in consideration of the sum of Ten Dollars (\$10.00), to it in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, remised, released, conveyed and confirmed, and by these presents doth grant, bargain, sell, alien, remise, release, convey and confirm unto the said party of the second part, their heirs and assigns forever, all that certain parcel of land lying and being in the County of Columbia and State of Florida, more particularly described as follows:

Lots 39 and 59, CROSSWINDS, Phase One, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 79-82 of the public records of Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

TOGETHER with all the tenements, hereditaments and appurtenances, with every privilege, right, title, interest and estate, reversion, remainder and easement thereto belong or in anyway appertaining:

TO HAVE AND TO HOLD the same in fee simple forever.

And the said party of the first part doth covenant with said

party of the second part that it is lawfully seized of said premises; that they are free of all encumbrances, and that it has good right and lawful authority to sell the same; and the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

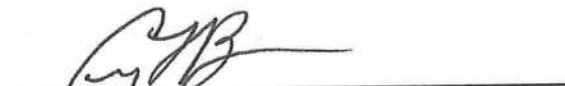
IN WITNESS WHEREOF, the party of the first part has caused these presents to be signed in its name by its President, the day and year above written.

Signed, sealed and delivered
in our presence:

DELTA OMEGA PROPERTIES, INC.


Witness: Terry McDavid



By: JAMES R. SMITHEY, President

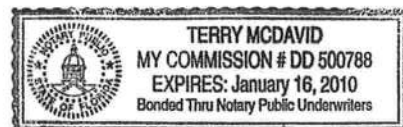

Witness: Crystal L. Brunner

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 2nd day of November, 2006, by JAMES R. SMITHEY, as President of DELTA OMEGA PROPERTIES, INC., a State of Florida corporation, on behalf of the corporation. He is personally known to me and did not take an oath.

(Seal)


Notary Public
My Commission Expires: _____



Inst:2006026346 Date:11/06/2006 Time:12:58
Doc Stamp-Deed : 700.00
DC,P.DeWitt Cason,Columbia County B:1101 P:750

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1554
FAX (904) 755-7022
XXXXXXXXXXXXXXXXXXXXX
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

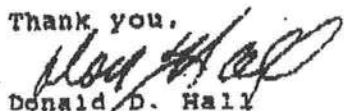
June 12, 2002 .

NOTICE TO ALL CONTRACTORS

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

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

Thank you.


Donald D. Hall
DDH/jk

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	702262WadeWillisConstruction	Builder:	Wade Willis
Address:	Lot: 59, Sub: Crosswinds, Plat:	Permitting Office:	Columbia
City, State:	, FL	Permit Number:	25708
Owner:	Spec House Lot 59 Crosswinds S/D	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 32.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1443 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 180.0 ft²			HSPF: 7.90
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 180.0 ft²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 174.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1172.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 200.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1491.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

Glass/Floor Area: 0.12

Total as-built points: 20501

Total base points: 23576

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: 3-19-07

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.

Residential Whole Building Performance Method A - Details

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1443.0	20.04	5205.2	Double, Clear	W	1.5	5.5	100.0	38.52	0.90	3455.2
				Double, Clear	W	1.5	5.5	30.0	38.52	0.90	1036.6
				Double, Clear	E	1.5	5.5	20.0	42.06	0.90	754.0
				Double, Clear	E	1.5	0.0	24.0	42.06	0.36	360.2
				Double, Clear	S	1.5	3.5	6.0	35.87	0.70	151.4
				As-Built Total:				180.0			
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	200.0	0.70	140.0	Frame, Wood, Exterior	13.0		1172.0	1.50		1758.0	
Exterior	1172.0	1.70	1992.4	Frame, Wood, Adjacent	13.0		200.0	0.60		120.0	
Base Total:		1372.0	2132.4	As-Built Total:		1372.0		1878.0			
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0 4.10 82.0						
Exterior	40.0	4.10	164.0	Exterior Insulated	20.0 4.10 82.0						
				Adjacent Insulated	20.0 1.60 32.0						
Base Total:		60.0	196.0	As-Built Total:		60.0		196.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1443.0	1.73	2496.4	Under Attic	30.0		1491.0	1.73 X 1.00		2579.4	
Base Total:		1443.0	2496.4	As-Built Total:		1491.0		2579.4			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	174.0(p)	-37.0	-6438.0	Slab-On-Grade Edge Insulation	0.0		174.0(p)	-41.20		-7168.8	
Raised	0.0	0.00	0.0								
Base Total:		-6438.0	As-Built Total:	174.0		-7168.8					
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
1443.0		10.21	14733.0	1443.0		10.21		14733.0			

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**ADDRESS: Lot: **59**, Sub: **Crosswinds**, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 18325.0				Summer As-Built Points: 17975.0						
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
18325.0	0.4266		7817.4	<small>(sys 1: Central Unit 32000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> 17975 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 5369.0 17975.0 1.00 1.138 0.263 1.000 5369.0						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 59, Sub: Crosswinds, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	1443.0	12.74	3309.1	Double, Clear	W	1.5	5.5	100.0	20.73	1.03	2131.1
				Double, Clear	W	1.5	5.5	30.0	20.73	1.03	639.3
				Double, Clear	E	1.5	5.5	20.0	18.79	1.04	391.4
				Double, Clear	E	1.5	0.0	24.0	18.79	1.51	679.6
				Double, Clear	S	1.5	3.5	6.0	13.30	1.47	117.0
				As-Built Total:			180.0			3958.4	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	200.0	3.60	720.0	Frame, Wood, Exterior	13.0			1172.0	3.40	3984.8	
Exterior	1172.0	3.70	4336.4	Frame, Wood, Adjacent	13.0			200.0	3.30	660.0	
Base Total: 1372.0 5056.4				As-Built Total:			1372.0			4644.8	
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	20.0	8.00	160.0	Exterior Insulated				20.0	8.40	168.0	
Exterior	40.0	8.40	336.0	Exterior Insulated				20.0	8.40	168.0	
				Adjacent Insulated				20.0	8.00	160.0	
Base Total: 60.0 496.0				As-Built Total:			60.0			496.0	
CEILING TYPESArea X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	1443.0	2.05	2958.1	Under Attic	30.0			1491.0	2.05 X 1.00	3056.6	
Base Total: 1443.0 2958.1				As-Built Total:			1491.0			3056.6	
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	174.0(p)	8.9	1548.6	Slab-On-Grade Edge Insulation	0.0			174.0(p)	18.80	3271.2	
Raised	0.0	0.00	0.0								
Base Total: 1548.6				As-Built Total:			174.0			3271.2	
INFILTRATION Area X BWPM = Points							Area X WPM = Points				
1443.0 -0.59 -851.4							1443.0 -0.59			-851.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 59, Sub: Crosswinds, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points: 12516.9				Winter As-Built Points: 14575.6						
Total Winter Points	X System Multiplier	=	Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier	=	Heating Points
						(DM x DSM x AHU)				
				(sys 1: Electric Heat Pump 32000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				14575.6	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000		7311.9
12516.9	0.6274		7853.1	14575.6	1.00	1.162	0.432	1.000		7311.9

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 59, Sub: Crosswinds, Plat: , , FL,

PERMIT #:

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

CODE COMPLIANCE STATUS													
BASE							AS-BUILT						
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
7817		7853		7905		23576	5369		7312		7820		20501

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 59, Sub: Crosswinds, Plat: , , FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.5

The higher the score, the more efficient the home.

Spec House Lot 59 Crosswinds S/D, Lot: 59, Sub: Crosswinds, Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 32.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 13.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	1443 ft ²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	13. Heating systems	
a. U-factor:	Description Area	___	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 180.0 ft ²	___		HSPF: 7.90
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 180.0 ft ²	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 174.0(p) ft	___	a. Electric Resistance	Cap: 40.0 gallons
b. N/A	___	___		EF: 0.93
c. N/A	___	___	b. N/A	___
9. Wall types		___	c. Conservation credits	___
a. Frame, Wood, Exterior	R=13.0, 1172.0 ft ²	___	(HR-Heat recovery, Solar	___
b. Frame, Wood, Adjacent	R=13.0, 200.0 ft ²	___	DHP-Dedicated heat pump)	___
c. N/A	___	___	15. HVAC credits	___
d. N/A	___	___	(CF-Ceiling fan, CV-Cross ventilation,	___
e. N/A	___	___	HF-Whole house fan,	___
10. Ceiling types		___	PT-Programmable Thermostat,	___
a. Under Attic	R=30.0, 1491.0 ft ²	___	MZ-C-Multizone cooling,	___
b. N/A	___	___	MZ-H-Multizone heating)	___
c. N/A	___	___		___
11. Ducts		___		___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft	___		___
b. N/A	___	___		___

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

Builder Signature: _____ Date: _____

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



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

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

New Construction Subterranean Termite Soil Treatment Record*This form is completed by the licensed Pest Control Company.*

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

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

25708

Lot 59 Crosswind

Section 1: General Information (Treating Company Information)Company Name: Live Oak Pest Control, Inc.Company Address: 17856 US 129 South City: McAlpin State: FL Zip: 32062Company Business License No.: JP 90767 Company Phone No.: (386) 362-3887

FHA/VA Case No. (if any): _____

Section 2: Builder InformationCompany Name: Wade Willis ConstructionPhone No.: (386) 623-3331**Section 3: Property Information**Location of Structure(s) Treated (Street Address, or Legal Description, City, State and Zip): CrossWinds Subdivision Lot #59
Lake City, FL 32060 683 SW Chesterfield CircleType of Construction: ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
(More than one box may be checked)

Approximate Depth of Footing:

Outside: 1 - 2'Inside: 1 - 2'Type of Fill: dirt**Section 4: Treatment Information**Date(s) of Treatment(s): 4/13/07; 7/30/07; 5/15/08Brand Name of Product(s) Used: Premise; Prevail. EPA Registration No.: 432-1449; 279-3209Approximate Final Mix Solution %: .05; .25Approximate Size of Treatment Area:
Sq. ft.: 1940 Linear ft.: 449 Linear ft. of Masonry Voids: _____Approximate Total Gallons of Solution Applied: 371Was treatment completed on exterior? ☒ YES ☐ NOService Agreement Available: ☒ YES ☐ NO*Note: Some state laws require service agreements to be issued. This form does not preempt state law.*

Attachments (List): _____

Comments: Soil barrier sprayName of Applicator(s): Nick Kirby; Kevin Kelly; Certification No. (if required by state law): _____
Aaron Cummings*The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.*Authorized Signature: Deonna Willis Date: 5/10

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties, 116 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802

Form NPCA-98b

Forms VA-28-A-775 and HUD-92062 are obsolete

THIS FORM MAY NOT BE ALTERED.

(2/97)

Certificate of Compliance for Termite Protection
(As required by Florida Building Code (FBC) 1816.1.7)



17856 U.S. 129
McALPIN, FLORIDA 32062
(386) 362-3887
1-800-771-3887
Fax: (386) 364-3529

Wade Willis Construction - Crosswinds Subdivision lot#59 683 SW Chesterfield
Address of Treatment or Lot/Block of Treatment Circle Lake City, FL 32055

Soil barrier spray

Method of Termite Prevention Treatment - soil barrier, wood treatment, bait system, other
(describe)

The building has received a complete treatment for the prevention of subterranean termites.
The treatment is in accordance with rules and laws established by the Florida Department of
Agriculture and Consumer Services.

Authorized Signature

Certificate of Compliance for Termite Protection
(As required by Florida Building Code (FBC) 1816.1.7)



17856 U.S. 129
McALPIN, FLORIDA 32062
(386) 362-3887
1-800-771-3887
Fax: (386) 364-3529

46 25708

Wade Willis Construction - Crosswinds Subdivision lot#59 683 SW Chesterfield
Address of Treatment or Lot/Block of Treatment Circle Lake City, FL 32055 .

Soil barrier spray

Method of Termite Prevention Treatment - soil barrier, wood treatment, bait system, other
(describe)

The building has received a complete treatment for the prevention of subterranean termites.
The treatment is in accordance with rules and laws established by the Florida Department of
Agriculture and Consumer Services.

Authorized Signature

Residential System Sizing Calculation

Summary

Spec House Lot 59 Crosswinds S/D
, FL

Project Title:
702262WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

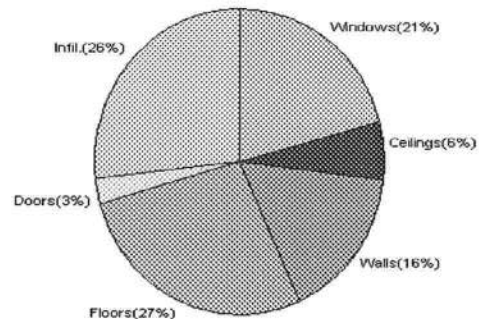
3/19/2007

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	27756 Btuh	Total cooling load calculation	23302 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.3 32000	Sensible (SHR = 0.75)	128.6 24000
Heat Pump + Auxiliary(0.0kW)	115.3 32000	Latent	172.2 8000
		Total (Electric Heat Pump)	137.3 32000

WINTER CALCULATIONS

Winter Heating Load (for 1443 sqft)

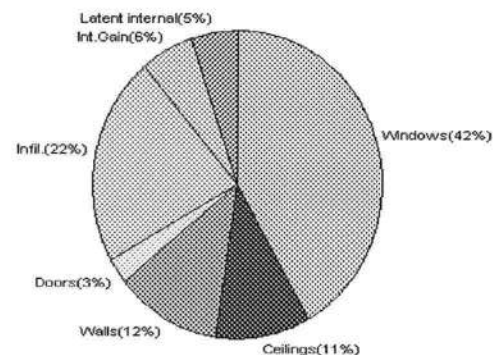
Load component	Load
Window total 180 sqft	5794 Btuh
Wall total 1372 sqft	4506 Btuh
Door total 60 sqft	777 Btuh
Ceiling total 1491 sqft	1757 Btuh
Floor total 174 sqft	7597 Btuh
Infiltration 181 cfm	7326 Btuh
Duct loss	0 Btuh
Subtotal	27756 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	27756 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1443 sqft)

Load component	Load
Window total 180 sqft	9718 Btuh
Wall total 1372 sqft	2746 Btuh
Door total 60 sqft	588 Btuh
Ceiling total 1491 sqft	2469 Btuh
Floor total	0 Btuh
Infiltration 94 cfm	1755 Btuh
Internal gain	1380 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	18656 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	3445 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
Total latent gain	4645 Btuh
TOTAL HEAT GAIN	23302 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 3-19-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House Lot 59 Crosswinds S/D

Project Title:
702262WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

3/19/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	100.0		32.2	3219 Btuh
2	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
3	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	SE	24.0		32.2	773 Btuh
5	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
Window Total			180(sqft)			5794 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1172		3.3	3849 Btuh
2	Frame - Wood - Adj(0.09)	13.0	200		3.3	657 Btuh
Wall Total			1372			4506 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1491		1.2	1757 Btuh
Ceiling Total			1491			1757Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	174.0 ft(p)		43.7	7597 Btuh
Floor Total			174			7597 Btuh
Zone Envelope Subtotal:						20431 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	11544	180.9		7326 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					27756 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	27756 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27756 Btuh

Residential Load - Component Details (continued)

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House Lot 59 Crosswinds S/D

Project Title:
702262WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

3/19/2007

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	100.0		32.2	3219 Btuh
2	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
3	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	SE	24.0		32.2	773 Btuh
5	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
Window Total			180(sqft)			5794 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1172		3.3	3849 Btuh
2	Frame - Wood - Adj(0.09)	13.0	200		3.3	657 Btuh
Wall Total			1372			4506 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1491		1.2	1757 Btuh
Ceiling Total			1491			1757Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	174.0	ft(p)	43.7	7597 Btuh
Floor Total			174			7597 Btuh
Zone Envelope Subtotal:						20431 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	11544	180.9		7326 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					27756 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	27756 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27756 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House Lot 59 Crosswinds S/D

Project Title:

Class 3 Rating

Registration No. 0

Climate: North

, FL

702262WadeWillisConstruction

01/01/2007

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

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

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

For Florida residences only



System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House Lot 59 Crosswinds S/D

Project Title:
702262WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

, FL

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

3/19/2007

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

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	100.0	0.0	100.0	29	60	6004	Btuh	
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh	
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979	Btuh	
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	24.0	24.0	0.0	29	63	695	Btuh	
5	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239	Btuh	
Window Total						180 (sqft)					9718	Btuh
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09			1172.0		2.1		2445 Btuh			
2	Frame - Wood - Adj	13.0/0.09			200.0		1.5		302 Btuh			
Wall Total						1372 (sqft)				2746 Btuh		
Doors	Type				Area (sqft)		HTM		Load			
1	Insulated - Adjacent				20.0		9.8		196 Btuh			
2	Insulated - Exterior				20.0		9.8		196 Btuh			
3	Insulated - Exterior				20.0		9.8		196 Btuh			
Door Total						60 (sqft)				588 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle	30.0			1491.0		1.7		2469 Btuh			
Ceiling Total						1491 (sqft)				2469 Btuh		
Floors	Type	R-Value			Size		HTM		Load			
1	Slab On Grade	0.0			174 (ft(p))		0.0		0 Btuh			
Floor Total						174.0 (sqft)				0 Btuh		
Zone Envelope Subtotal:										15522 Btuh		
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load			
	SensibleNatural	0.49			11544		94.3		1755 Btuh			
Internal gain	Occupants			Btuh/occupant			Appliance		Load			
	6			X 230 +			0		1380 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									18656 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House Lot 59 Crosswinds S/D
, FL

Project Title:
702262WadeWillisConstruction

Class 3 Rating
Registration No. 0
Climate: North

3/19/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	18656 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	18656 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	18656 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3445 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4645 Btuh
	TOTAL GAIN	23302 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House Lot 59 Crosswinds S/D

Project Title:

702262WadeWillisConstruction

Class 3 Rating

Registration No. 0

Climate: North

, FL

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

3/19/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	100.0	0.0	100.0	29	60	6004 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	24.0	24.0	0.0	29	63	695 Btuh
5	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
Window Total					180 (sqft)					9718 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1172.0		2.1		2445 Btuh	
2	Frame - Wood - Adj	13.0/0.09			200.0		1.5		302 Btuh	
Wall Total						1372 (sqft)				2746 Btuh
Doors	Type				Area (sqft)		HTM		Load	
1	Insulated - Adjacent				20.0		9.8		196 Btuh	
2	Insulated - Exterior				20.0		9.8		196 Btuh	
3	Insulated - Exterior				20.0		9.8		196 Btuh	
Door Total						60 (sqft)				588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle	30.0			1491.0		1.7		2469 Btuh	
Ceiling Total						1491 (sqft)				2469 Btuh
Floors	Type	R-Value			Size		HTM		Load	
1	Slab On Grade	0.0			174 (ft(p))		0.0		0 Btuh	
Floor Total						174.0 (sqft)				0 Btuh
	Zone Envelope Subtotal:								15522 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load	
	SensibleNatural	0.49			11544		94.3		1755 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load	
	6			X 230 +			0		1380 Btuh	
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00	0.0 Btuh
	Sensible Zone Load								18656 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House Lot 59 Crosswinds S/D

Project Title:

Class 3 Rating

Registration No. 0

Climate: North

702262WadeWillisConstruction

, FL

3/19/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	18656 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	18656 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	18656 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3445 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4645 Btuh
	TOTAL GAIN	23302 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House Lot 59 Crosswinds S/D

Project Title:
702262WadeWillisConstruction

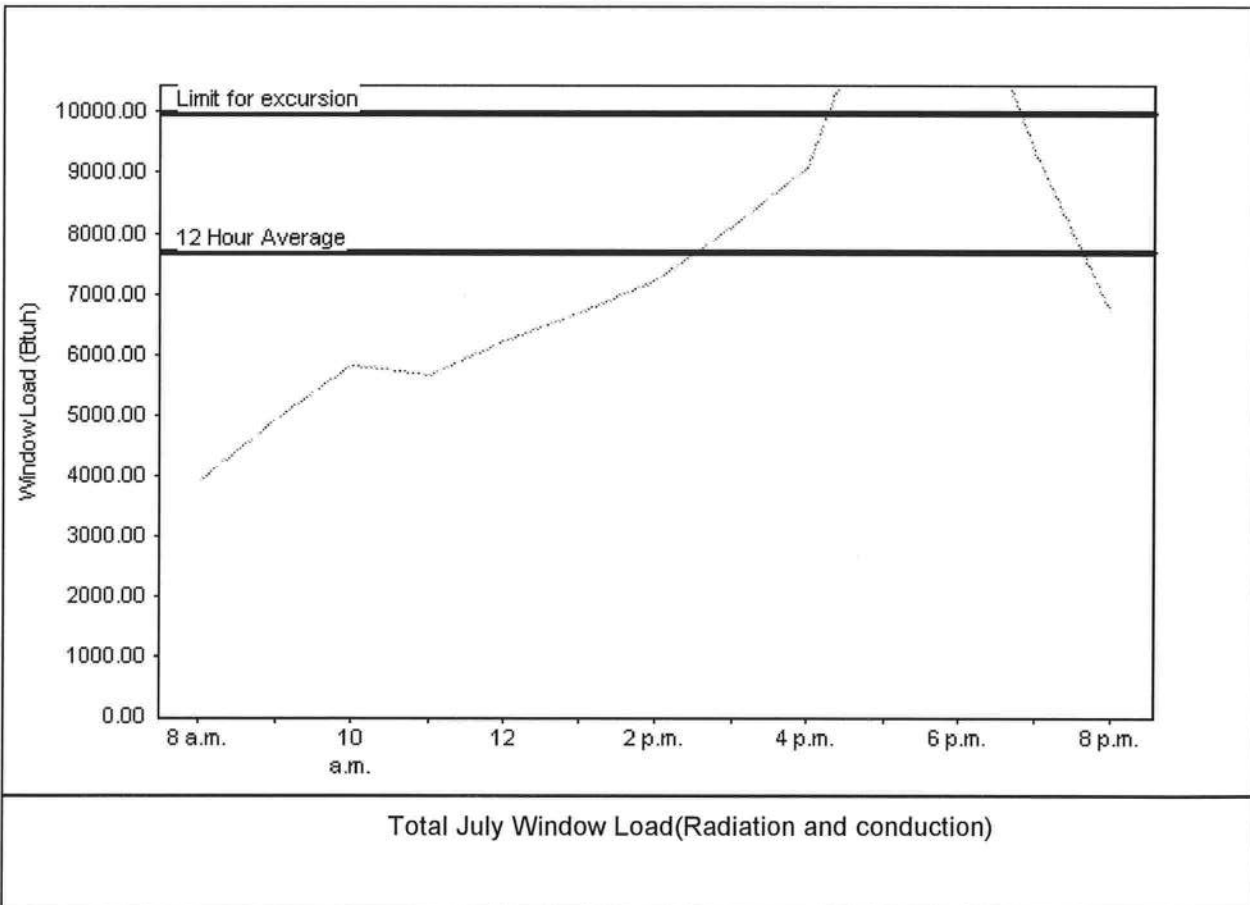
Class 3 Rating
Registration No. 0
Climate: North

3/19/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	7686 Btuh
Summer setpoint	75 F	Peak window load for July	12634 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	9992 Btuh
Latitude	29 North	Window excursion (July)	2642 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*
DATE: 3-19-07

EnergyGauge® FLR2PB v4.1



RESIDENTIAL HEATING AND COOLING REQUIREMENTS*

Page 1



HEATING AND COOLING REQUIREMENTS DUE TO GLASS AREA

DESIGN TEMPERATURE DIFFERENCE				
30°	35°	40°	45°	50°

WINDOWS & GLASS DOORS	AREA SQUARE FEET	HEATING MULTIPLIER (CIRCLE ONE)					HEATING (BTUH LOSS)
Glass Doors, Infiltration less than 1.0 CFM/FT							
Single Glass		50	60	70	75	85	
Double Glass	60	40	45	50	55	60	3090
Other Sliding Glass Doors							
Single Glass		75	85	100	115	125	
Double Glass		60	70	80	90	100	
Windows, Infiltration less than 0.50 CFM/FT							
Single Glass		40	50	55	60	70	
Double Glass	124	25	30	35	40	45	4340
Windows, Infiltration less than 0.75 CFM/FT							
Single Glass		45	50	60	65	75	
Double Glass		30	35	40	45	50	
Other Windows							
Single Glass		75	90	105	115	130	
Double Glass		60	70	80	90	105	
Fixed or Picture Windows							
Single Glass		40	50	55	60	70	
Double Glass		25	30	35	40	45	
Other							
Total BTUH Loss (Enter on Line 2, Page 2)							7340

WINDOWS & GLASS DOORS	AREA SQUARE FEET	COOLING MULTIPLIER (CIRCLE)												COOLING (BTUH GAIN)
		SINGLE GLASS						DOUBLE GLASS						
		90°			95°			90°			95°			
		C	T	R	C	T	R	C	T	R	C	T	R	
No Shading														
N		30	22	20	30	26	25	20	14	13	25	17	16	
NE & NW		60	41	36	65	45	41	50	29	24	50	32	27	
E & W		85	60	53	90	64	57	70	44	36	75	47	39	
SE & SW		75	51	45	80	55	50	60	37	30	65	40	33	
S		45	31	28	50	35	33	35	21	18	40	24	21	
Draperies or Blinds														
N	0	20	17	16	25	21	20	15	11	11	20	14	14	
NE & NW		35	33	30	40	37	34	30	22	21	35	25	24	
E & W	184	55	48	43	55	52	47	45	32	30	50	35	33	9200
SE & SW		45	39	35	50	43	39	40	26	25	40	29	28	
S	0	30	26	24	30	30	28	25	17	16	25	20	19	
Roller Shades														
N		25	19	17	25	23	22	20	12	11	20	15	14	
NE & NW		45	36	32	50	40	37	40	26	22	45	29	25	
E & W		65	53	47	70	57	51	55	37	32	60	40	35	
SE & SW		55	44	39	60	48	44	50	32	27	50	35	30	
S		35	28	25	40	32	30	30	20	16	35	23	19	
Awnings, Porches, Etc.														
All Directions		25	22	20	30	26	25	15	14	13	20	17	16	
Other														
Total BTUH Gain (Line 2, Page 2)														9200

TOTAL HEATING AND COOLING REQUIREMENTS

Page 2

Name: Wade Willis ConstAddress: LOT 59 CROSS WINDS

City: _____

(✓) Check Constr. Type	ITEM	AREA SQUARE FEET	DESIGN TEMPERATURE DIFFERENCE					HEATING (BTUH LOSS)	DESIGN TEMP		COOLING MULT. (CIRCLE)	COOLING (BTUH GAIN)
			30°	35°	40°	45°	50°		90°	95°		
	Gross Wall Area	1144										
	Glass Area (From page 1)	184						7340				9200
	Partitions, Frame											
	Finished 1 side, No Insulation		17	19	22	25	28		6.5	10.0		
	Finished 2 sides, No Insulation		9	11	12	14	16		4.5	6.0		
	Finished 2 sides, R-5		4	5	5.5	6	7		2.5	3.5		
	Finished 2 sides, R-11	196	2	3	(3)	4	4	588	2.0	(2.5)		490
	Other											
	Doors (Excluding glass)											
	No weatherstripping		135	160	180	200	225		10.0	13.0		
	Weatherstripped		70	85	95	110	120		10.0	13.0		
	R-5 Insulation, No weatherstripping		123	144	164	185	205		4.3	5.5		
	R-5 Insulation, weatherstripping	20	68	79	(90)	101	113	1800	4.0	(5.0)		100
	Other											
	Net Exterior Walls											
	CBS Furred, No Insulation		9	10	12	13	14		4.5	6.0		
	CBS Furred, R-3 Insulation		5	6	7	8	8		3.0	4.2		
	CBS Furred, R-4 Insulation		4	5	6	6	7		2.7	3.8		
	CBS Furred, R-5 Insulation		4	5	5	6	6		2.5	3.5		
	Frame, No Insulation		8	9	10	11	13		5.5	7.0		
	Frame, R-11 Insulation		2	2	3	3	4		2.5	3.0		
	Frame, R-14 Insulation	960	1.5	1.7	(2)	2.5	3	1920	2	2.8		2688
	Other											
	Ceiling under attic											
	No Insulation	DK LT	18	21	24	27	30		9	7	10	8.5
	R-11 Insulation	DK LT	2.4	2.8	3.2	3.5	3.9		2.5	2	3	2.5
	R-19 Insulation	DK LT	1.5	1.7	1.9	2.2	2.4		1.5	1.5	2	1.5
	R-22 Insulation	DK LT	1.2	1.5	1.7	1.9	2.1		1.5	1.0	1.5	1.5
	R-26 Insulation	DK LT	1.1	1.3	1.4	1.6	1.8		1.3	1	1.5	1.2
	R-30 Insulation	DK LT	1	1.1	(1.3)	1.4	1.6	1876	1.1	.9	1.3	1.0
	Other											
	Floor, Concrete Slab	Perimeter Ft.										
	No Edge Insulation	143	35	40	(40)	45	45	5720	0	0		
	Other											
	Subtotal							13524				13921
	People @ 300 & Appl. @ 1200											6300
	Sensible BTUH Gain											
	Duct BTUH Loss & Gain							13524				20221
	2 In. Flex. or 1 In. Rigid							1352			.10	2022
	1 1/2 In. Rigid										.075	
	Total BTUH Loss							14876				
	Subtotal BTUH Gain											22243
	x 1.3 = Total BTUH Gain											28916

Calculated Heating Requirements 14876
 Size of Unit Chosen 30,000
 % Oversized _____
 % Undersized _____

BTUH Calculated Cooling Requirements 28916 BTUH
 Size of Unit Chosen 30,000 BTUH
 % Oversized _____
 % Undersized _____

Project Name:

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	Thermax	1 1/2" STEEL/WOOD upto 6 FT OPEN	01-0828,08
2. Sliding		INCLUDES SIDELITES	
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	CAPITAL & BETTER BUILT. MI Products	SINGLE HUNG 740, 165, 3240, 4250 Series	AAMA CERT BB-101/13.2.-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 (Sleeper Wall)	NORBOARD	8'-9'x10' OSB WALL SHEETING	NER 108
2. Soffits		WIND STORM	
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane	BARRICADE	BUILDING WRAP FED SPEC.	44B790A
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments	WOODLAND	15#, 30# FELT	ASTMD-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			

Category (cont.)	Manufacturer	Product Description	Approval Reference
Applied Roof Sys			
Ants-Adhesives -			
Coatings			
Roof Tile Adhesive			
Spray Applied Polyurethane Roof			
17. Other			
III. 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, L3TA	FL 2822
2. Truss plates			
3. Engineered lumber	ANTHONY	3 1/2" - 5 1/2" 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 inspection.

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # (FOR STAFF USE ONLY)

Door Model	Glasgr	Decimal
2250/2251	25	.0125
4250/4251	25	.0125
2240/2241	24	.0075
4240/4241	24	.0075
5240/5241	24	.0075

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

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

Track Bracket Chart	door height									
	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"
D	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"
C	60"	58"	56"	54"	52"	50"	48"	46"	44"	42"
B	35"	33"	31"	29"	27"	25"	23"	21"	19"	17"
A	10"	7"	4"	1"	0"	0"	0"	0"	0"	0"

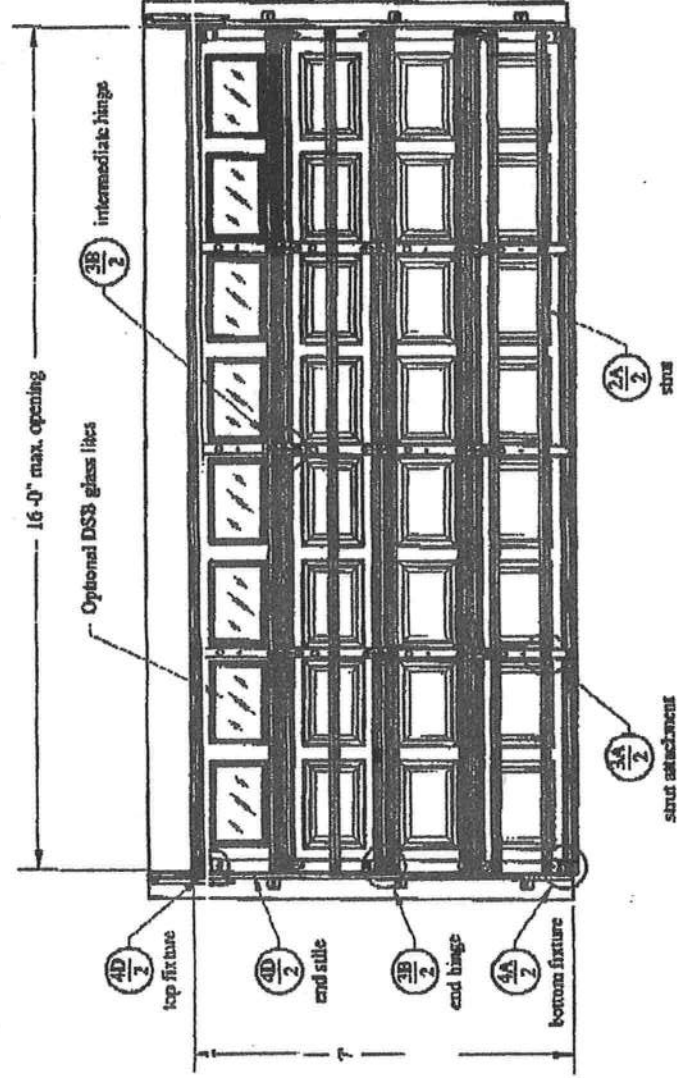
Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

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

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

FL 5519

page 1 of 2



This door has been tested in accordance with ANSI/ASMA 108-2002

Design Pressure (DP): 18.5 psf / 20.7 inq

Test Pressure (TP): 27.5 psf / 31.1 inq

Per 2004 FBC Table 1609.6E, DP must be increased to wind speed of:

V = 110 MPH for Exposure B and mean roof height of 35' or less

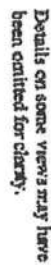
V = 93 MPH for Exposure C and mean roof height of 35' or less

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

Glasgr and door have not been tested for windborne debris.

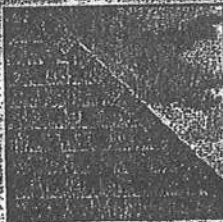
Wood buck and supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing.

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

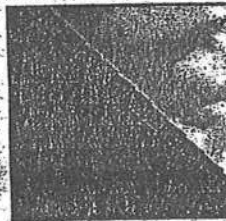




ELK



**PRESTIQUE[®]
HIGH DEFINITION[®]**



RAISED PROFILE[®]

Prestique Plus High Definition and Prestique Gallery Collection

Product size 13' x 39"
Exposure 5'
Pieces/Bundle 18
Bundles/Square 4/98.5 sq. ft.
Squares/Pallet 18

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 13' x 39"
Exposure 5'
Pieces/Bundle 22
Bundles/Square 3/100 sq. ft.
Squares/Pallet 18

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 13' x 39"
Exposure 5'
Pieces/Bundle 18
Bundles/Square 4/98.5 sq. ft.
Squares/Pallet 18

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
90 mph**.

HIP AND RIDGE SHINGLES

Seal-A-Ridge[®] w/FLX[™]
Size: 12' x 12"
Exposure: 6'
Pieces/Bundle: 45
Coverage: 4 Bundles =
100 linear feet

Vented RidgeCrest[™] w/FLX[™]
Size: 13' x 13"
Exposure: 9'
Pieces/Box: 28
Coverage: 5 boxes =
100 linear feet

Prestique High Definition

Product size 13' x 39"
Exposure 5'
Pieces/Bundle 22
Bundles/Square 3/100 sq. ft.
Squares/Pallet 18

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.

Elk Starter Strip

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

Available Colors (Check Availability): Autumn Slate, Weatheredwood, Shakeswood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood, Gallery Collection: Revere Forest, Weathered Sage, Sierra 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 system that resists tear-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 667) 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, FCBO, and Texas Department of Insurance.

*See actual limited warranty for coverage and limitations.

**Effective January 1, 2004, the seven year non-prorated Underlayment Coverage Pooled applies only when a full Elk Roof System is installed with the optional installation of the Elk shingles, all in accordance with Elk's application instructions for each product. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and eaves, Elk Starter Strip along all eaves and rakes, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment to all eaves. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rakes and eaves edges of the roof in and north of the states of VA, KY, MD, IL, CO, UT, WY & OR. For a Limited Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 90 mph for Prestique I or Grand, at least six (6) properly placed MAULS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

SPECIFICATIONS

Roof 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 6" (25.4mm x 152.4mm) boards, exterior grade plywood (exposure 1 rated sheathing) at least 3/8" (9.52mm) thick conforming to the specifications of the American Plywood Association; 2/18" (11.07mm) 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)) to a minimum of 2" per foot (50.8/304.8mm), use two piles of underlayment overlapped a minimum of 18". 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

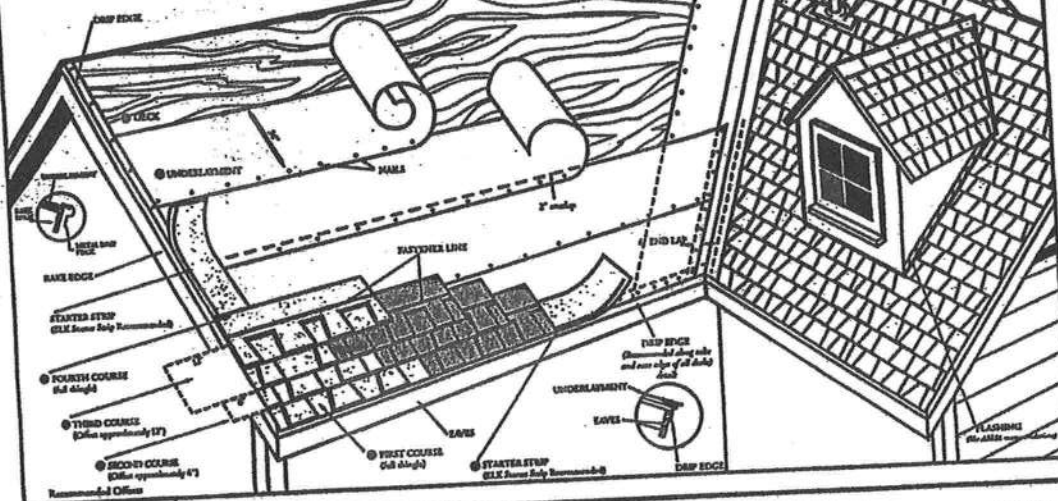
CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

ELK
The Premium Choice[®]
www.elkcorp.com
5500T 06/04

DIRECTIONS FOR APPLICATION

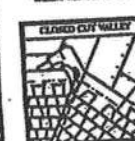
Please read carefully. Failure to follow these instructions may void the product warranty.
(Typical construction for residential purposes only)



VALLEY CONSTRUCTION IN OTHER
California Open and California Closed are
also acceptable.



WOVEN VALLEY



CLOSED CUT VALLEY



OPEN VALLEY

VALLEY CENTER LINE

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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.

DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/4" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

UNDERLAYMENT

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

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 18". Begin by fastening a 18" 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.

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.

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.

SECOND COURSE

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

THIRD COURSE

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

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.

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.

RIDGE CONSTRUCTION

For ridge construction Elk recommends Class "A" 2" 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 re-roofs. 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

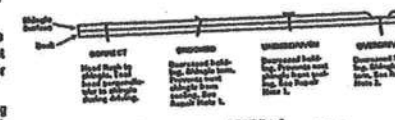
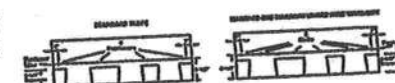
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only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



SEALANT DOTS: Fasteners must be placed in the sealant dots. Do not place fasteners in the sealant dots.

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 UL® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALE: 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.



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ITW Building Components Group, Inc.

LOT 59

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IT5E8228Z0506070931

Truss Fabricator: Anderson Truss Company
Job Identification: 7-074-1 -- 1 Wade Willis Lot 59
Truss Count: 32
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.25, 7.24.
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 - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 - Closed



Seal Date: 03/06/2007

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

-Truss Design Engineer-
James F. Collins Jr.

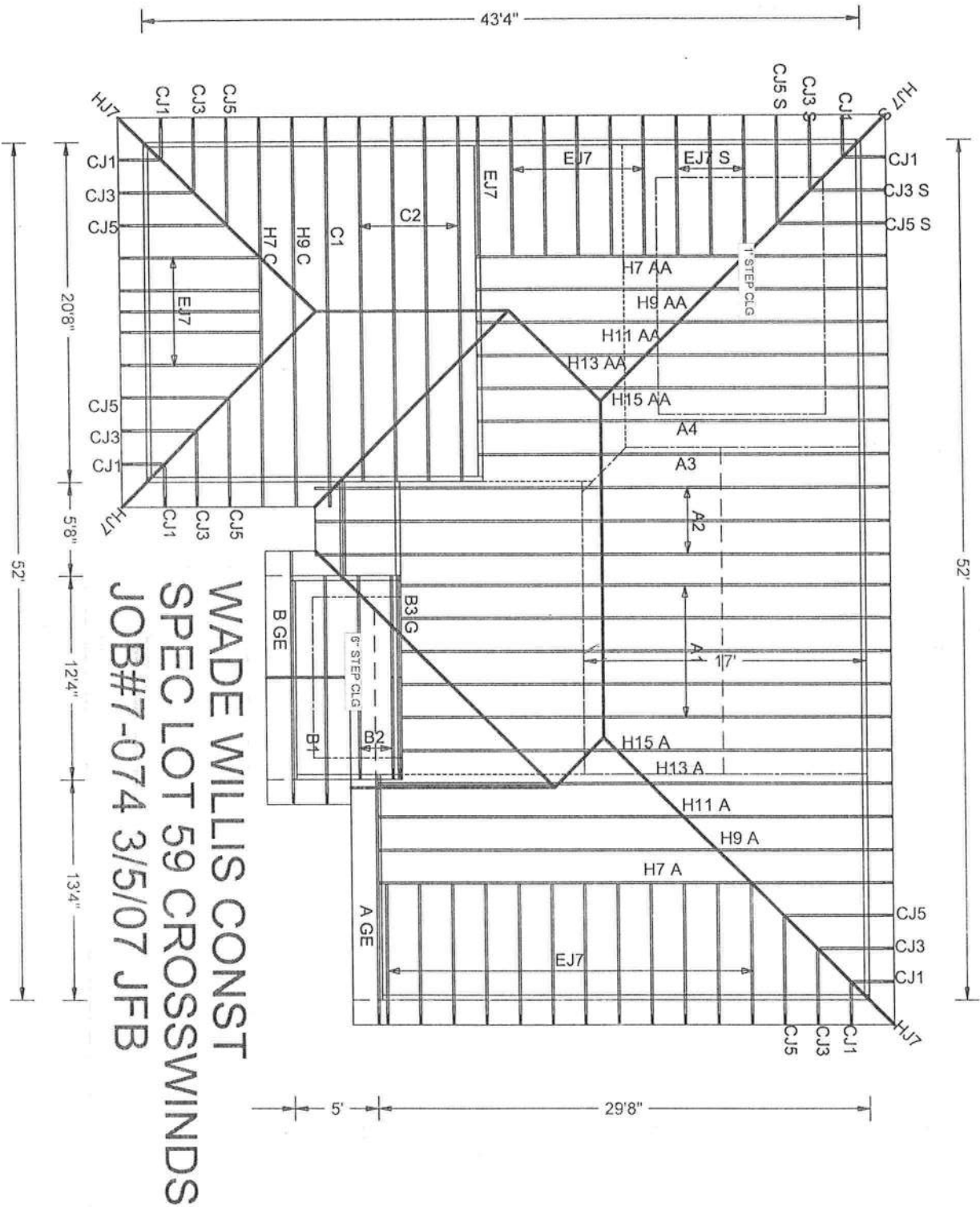
Florida License Number: 52212

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-A11015EE-GBLLETIN-TCFILLER-BCFILLER-REPB CFIL-

#	Ref	Description	Drawing#	Date
1	25725--H7 AA		07065050	03/06/07
2	25726--H7 A		07065052	03/06/07
3	25727--H9 AA		07065053	03/06/07
4	25728--H11 AA		07065054	03/06/07
5	25729--H13 AA		07065055	03/06/07
6	25730--H15 AA		07065056	03/06/07
7	25731--A4		07065035	03/06/07
8	25732--A3		07065036	03/06/07
9	25733--A2		07065037	03/06/07
10	25734--A1		07065057	03/06/07
11	25735--H15 A		07065058	03/06/07
12	25736--H13 A		07065038	03/06/07
13	25737--H11 A		07065039	03/06/07
14	25738--H9 A		07065040	03/06/07
15	25739--A GE		07065041	03/06/07
16	25740--B3 G		07065059	03/06/07
17	25741--B GE		07065060	03/06/07
18	25742--B1		07065001	03/06/07
19	25743--B2		07065042	03/06/07
20	25744--H7 C		07065061	03/06/07
21	25745--H9 C		07065043	03/06/07
22	25746--C1		07065044	03/06/07
23	25747--C2		07065045	03/06/07
24	25748--EJ7		07065046	03/06/07
25	25749--CJ5		07065047	03/06/07
26	25750--HJ7		07065051	03/06/07
27	25751--CJ3		07065002	03/06/07
28	25752--CJ1		07065062	03/06/07
29	25753--HJ7 S		07065063	03/06/07
30	25754--EJ7 S		07065064	03/06/07
31	25755--CJ5 S		07065048	03/06/07
32	25756--CJ3 S		07065049	03/06/07





WADE WILLIS CONST
SPEC LOT 59 CROSSWINDS
JOB#7-074 3/5/07 JFB

JOB DESCRIPTION: WADE WILLIS CONSTRUCTION
1: SPEC LOT 59 CROSSWINDS

JOB NO:

7-074

PAGE NO:

1 OF 1

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

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

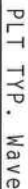
Right end vertical not exposed to wind pressure.

(2) 2x6x5-2 2 Sp #1 Dense Top chord scabs centered 2-8-4 from left end. Attach one to each outer face of chord with (3) rows of 12d_Common (0.148"x3.25" min.) nails @ 12" O.C., staggered 6".

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
 TC - From 62 PLE at 0.00 to 62 PLE at 7.00

TC -	From	31 PLF at 7.00 to	31 PLF at 23.29
BC -	From	20 PLF at 0.33 to	20 PLF at 7.00
BC -	From	10 PLF at 7.00 to	10 PLF at 23.29
TC -	422 LB Conc.	Load at 7.00	
TC -	206 LB Conc.	Load at 9.00,	11.00
TC -	187 LB Conc.	Load at 13.00,	15.00, 17.00, 19.00, 21.00
BC -	478 LB Conc.	Load at 7.00	
BC -	63 LB Conc.	Load at 9.00,	11.00
BC -	82 LB Conc.	Load at 13.00,	15.00, 17.00, 19.00, 21.00

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)

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

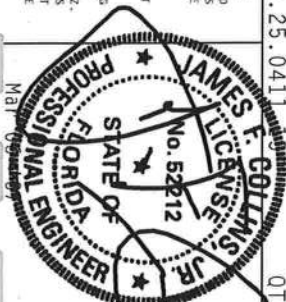
QTY:1 FL/-/4/-/-/R/-/

Scale = .3125"/Ft.

WARNING FRILES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY FPI (FIBERS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND THE (800) 788-5268 COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MANDALAY, MI 48139 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
ET Certificate of Authorization # 567



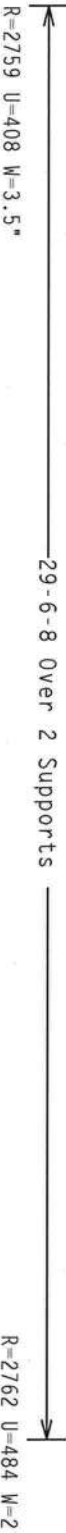
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TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065050
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	85791 REV
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF -	1T5E8228Z05



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

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

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



QTY:1 FL/-/4/-/-/R/- Scale = .25"/Ft.

TC LL	20.0 PSF	REF	R8228 - 25726
TC DL	10.0 PSF	DATE	03/06/07

DC DL	10:0 FST	DKM HCUSK8Z28 0/065052
-------	----------	------------------------

BC LL	0.0 PSF	HC-ENG JB/AP
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TOT.LD.	40.0 PSF	SEQN -	85810	REV
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DUR.FAC.	1.25	FROM	JFB
----------	------	------	-----

SPACING	24.0"	JREF - 1T5E8228705
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100

Wind reactions based on MMFRS pressures.

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

(**) 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 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpl(+/-)=0.18

Right end vertical not exposed to wind pressure.

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

(1) 2x6x5-6-8 SP #2 Top chord scab centered 3'-0" from left end. Attach to one face of chord with (3) rows of 12d Common (0.146"x3.25", min.) nails @ 6" o.c., staggered 3".

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

QTY:1

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

Scale = .3125"/Ft.

WARNING: THESE TRUSSES REQUIRE EXTREME CARE IN INSTALLATION, SHIPPING, HANDLING, STORAGE, AND BRACING. REFER TO GC-1 (BUILDING COMPONENT SPECIFICATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICK TO GOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (H.A./55/K) ASIM A653 GRADE 40/60 (H. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAINAGE 1604-2

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

100

Figure 1

FL/-/4/-/-/R/-		Scale = .3125"/Ft.
TC LL	20.0 PSF	REF R8228- 25727
TC DL	10.0 PSF	DATE 03/06/07
BC DL	10.0 PSF	DRW HCUR82228 07065053
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEQN- 156307
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5E8228Z05

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

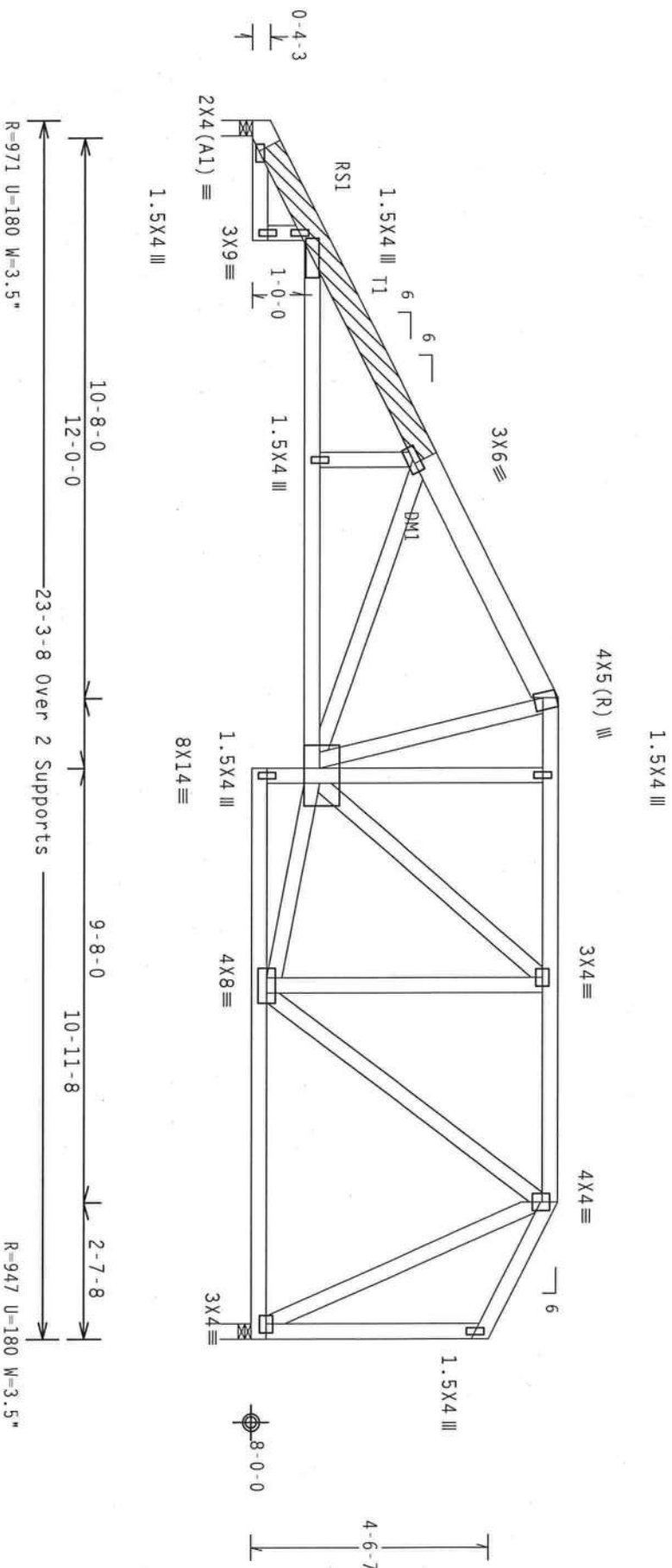
Calculated horizontal deflection is 0.16" due to live load and 0.25" due to dead load.

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

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

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

(1) 2x6X6-/-13 SP #2 Top chord scab centered 3-6-11 from left end. Attach to one face of chord with (3) rows of 12d_Common_(0.148"x3.25",_min.)_nails @ 6" O.C., staggered 3".



PLT TYP. Wave

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

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

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

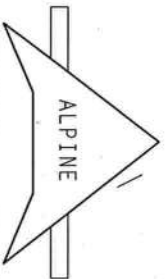
Scale = .3125"/Ft.

WARNING: THESE PRACTICES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRACING. REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE CRIBBS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC, (408) THUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GOOD SHALL HAVE PROPERLY ATTACHED RECID CEILING.

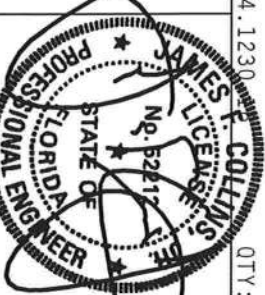
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCE, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS, NATIONAL DESIGN SPEC., BY AITAPA AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/16GA (M, H, SS)K ASH 4635 GRADE 40/60 (M, K/H, SS) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OR SIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/AP1.1 SEC. 2.



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



TC LL	20.0 PSF	REF	R8228 - 25728
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065054
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	156312
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF -	1T5E8228Z05

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

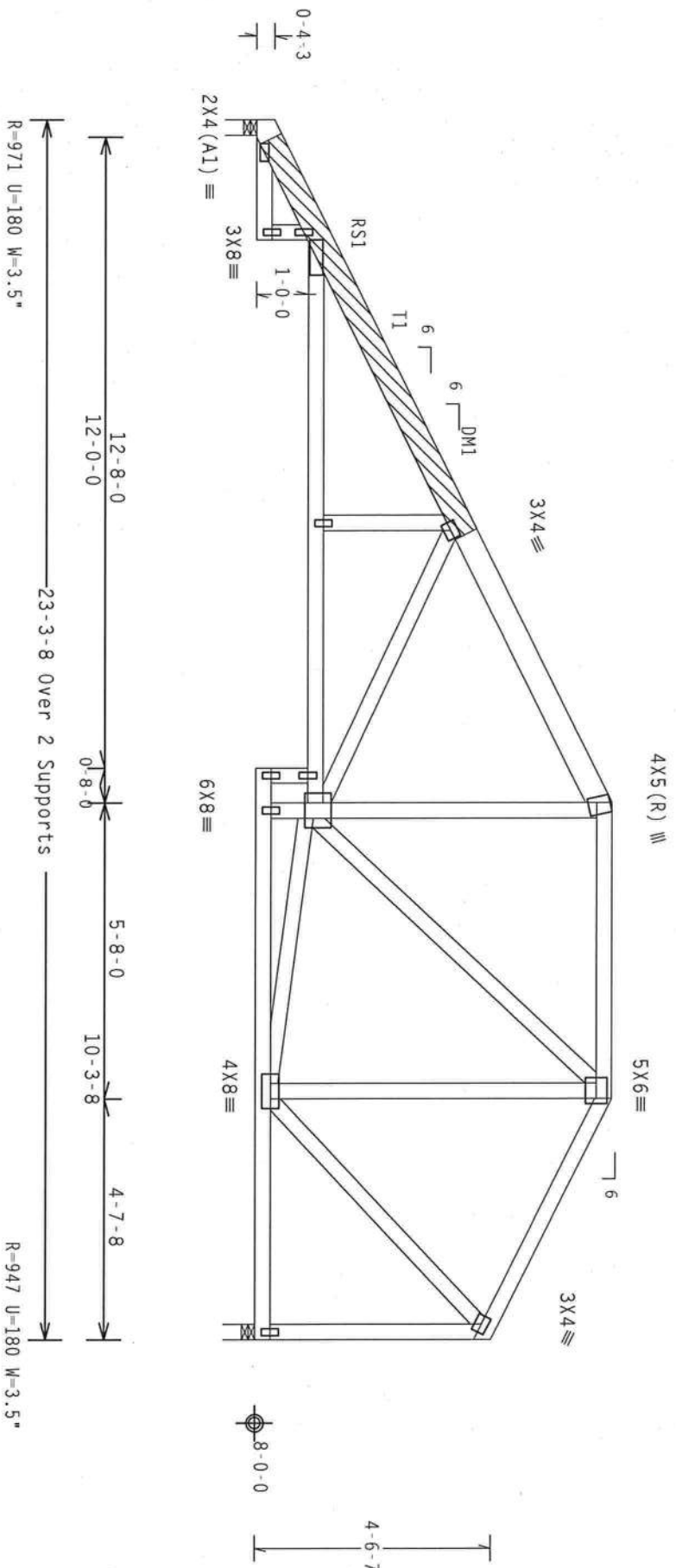
Calculated horizontal deflection is 0.18" due to live load and 0.28" due to dead load.

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

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

Right end vertical not exposed to wind pressure.

(1) 2x6x8-4-14 SP #2 Top chord scab centered 4-2-12 from left end. Attach to one face of chord with (3) rows of 12d Common (0.148"x3.25", min.) nails @ 6" O.C., staggered 3".



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

$$Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$$

QTY: 1 ~~FLT~~ / 4 / - / - / R / -

Scale = .3125" / Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Tel. 800-967-7777 or 800-967-7778

REFER TO SEC. 1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY PTI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICK CHORD 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.

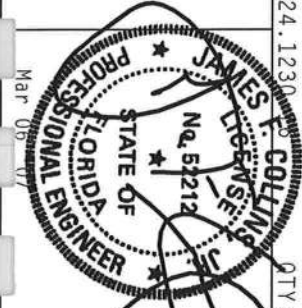
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN WILL BE AT THE USER'S SOLE RISK. SEE AREA AND TIPS:

TIPS: ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES:
1. ALL DIMENSIONS ARE GIVEN IN FEET AND INCHES.
2. CONNECTION PLATES ARE MADE OF 20/10/16GA OR 18/10/16GA ASTM A653 GRADE 40/50.
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ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF PTI-2002, SEC. 3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

A SEAL ON THIS DRAWING IS REQUIRED BY THE PROFESSIONAL ENGINEER SIGNING THIS DRAWING.



Scale = .3125"/ft.	
REF R8228 - 25729	REF
DATE 03/06/07	DATE
DRW HCUSR8228 07065055	DRW
HC-ENG JB/AP	HC-ENG
SEON - 156318	SEON
FROM JTB	FROM
JREF - 115E8228Z05	JREF

THIS WORK PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY JUSS MFK.

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

Right end vertical not exposed to wind pressure.

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

RS1 (1) 2x8x8-3-15 SP #2 Top chord scab centered 4-1-14 from left end. Attach to one face of chord with (3) rows of 12d_Common_(0.148"x3.25",_min)_nails @ 6" O.C., staggered 3".



Scale = .3125"/Ft.


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Mar 08 2011

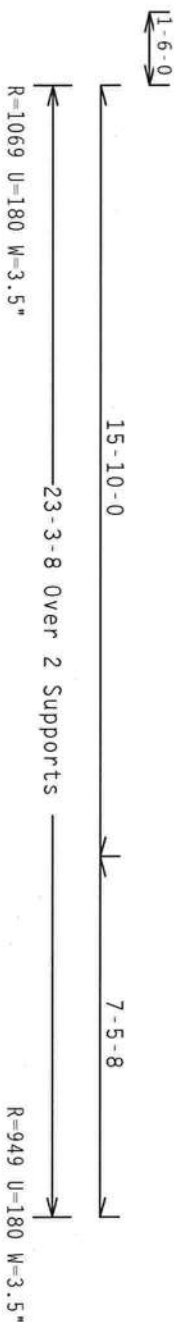
TC LL	20.0 PSF	REF	R8228- 25730
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCSR8228 0705056
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156326
DUR.FAC.	1.25	FROM	JFB
SACING	24.0 "	JREF -	1T5E8228205

THIS WORK PREPARED FROM COMPUTER INPUT (LVALUES & DIMENSIONS) SUBMITTED BY IKUSS MFK.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 Gcp(+/-)=0.18

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)

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

Scale = .25" / Ft.

James F. Collins

*** IMPORTANT *** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IT IS THE INST. INC.'S SMALL, NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TUSSES IN CONFORMANCE WITH THE TYPE OR FABRICATING, UNLOADING, SHIPPING, INSTALLING OR BRACING OF TUSSESS.

DESIGN CONDITIONS WITH AN IDEAL PROTECTION FOR TOS (TYPICAL) DESIGN SPEC. BY ARMA AND TP1. IT RECOMMENDS THAT THE TUSSES BE MADE OF STEEL, ALUMINUM OR FRP. THE TUSSES SHOULD BE DESIGNED TO RESIST PLATES TO EACH FACE OF TUSSES AND, ONCE OTHERWISE LOCATED ON THIS DESIGN SECTION PER DRAWINGS 1000-2, 1000-3, 1000-4, 1000-5, 1000-6, 1000-7, 1000-8, 1000-9, 1000-10, 1000-11, 1000-12, 1000-13, 1000-14, 1000-15, 1000-16, 1000-17, 1000-18, 1000-19, 1000-20, 1000-21, 1000-22, 1000-23, 1000-24, 1000-25, 1000-26, 1000-27, 1000-28, 1000-29, 1000-30, 1000-31, 1000-32, 1000-33, 1000-34, 1000-35, 1000-36, 1000-37, 1000-38, 1000-39, 1000-40, 1000-41, 1000-42, 1000-43, 1000-44, 1000-45, 1000-46, 1000-47, 1000-48, 1000-49, 1000-50, 1000-51, 1000-52, 1000-53, 1000-54, 1000-55, 1000-56, 1000-57, 1000-58, 1000-59, 1000-60, 1000-61, 1000-62, 1000-63, 1000-64, 1000-65, 1000-66, 1000-67, 1000-68, 1000-69, 1000-70, 1000-71, 1000-72, 1000-73, 1000-74, 1000-75, 1000-76, 1000-77, 1000-78, 1000-79, 1000-80, 1000-81, 1000-82, 1000-83, 1000-84, 1000-85, 1000-86, 1000-87, 1000-88, 1000-89, 1000-90, 1000-91, 1000-92, 1000-93, 1000-94, 1000-95, 1000-96, 1000-97, 1000-98, 1000-99, 1000-100, 1000-101, 1000-102, 1000-103, 1000-104, 1000-105, 1000-106, 1000-107, 1000-108, 1000-109, 1000-110, 1000-111, 1000-112, 1000-113, 1000-114, 1000-115, 1000-116, 1000-117, 1000-118, 1000-119, 1000-120, 1000-121, 1000-122, 1000-123, 1000-124, 1000-125, 1000-126, 1000-127, 1000-128, 1000-129, 1000-130, 1000-131, 1000-132, 1000-133, 1000-134, 1000-135, 1000-136, 1000-137, 1000-138, 1000-139, 1000-140, 1000-141, 1000-142, 1000-143, 1000-144, 1000-145, 1000-146, 1000-147, 1000-148, 1000-149, 1000-150, 1000-151, 1000-152, 1000-153, 1000-154, 1000-155, 1000-156, 1000-157, 1000-158, 1000-159, 1000-160, 1000-161, 1000-162, 1000-163, 1000-164, 1000-165, 1000-166, 1000-167, 1000-168, 1000-169, 1000-170, 1000-171, 1000-172, 1000-173, 1000-174, 1000-175, 1000-176, 1000-177, 1000-178, 1000-179, 1000-180, 1000-181, 1000-182, 1000-183, 1000-184, 1000-185, 1000-186, 1000-187, 1000-188, 1000-189, 1000-190, 1000-191, 1000-192, 1000-193, 1000-194, 1000-195, 1000-196, 1000-197, 1000-198, 1000-199, 1000-200, 1000-201, 1000-202, 1000-203, 1000-204, 1000-205, 1000-206, 1000-207, 1000-208, 1000-209, 1000-210, 1000-211, 1000-212, 1000-213, 1000-214, 1000-215, 1000-216, 1000-217, 1000-218, 1000-219, 1000-220, 1000-221, 1000-222, 1000-223, 1000-224, 1000-225, 1000-226, 1000-227, 1000-228, 1000-229, 1000-230, 1000-231, 1000-232, 1000-233, 1000-234, 1000-235, 1000-236, 1000-237, 1000-238, 1000-239, 1000-240, 1000-241, 1000-242, 1000-243, 1000-244, 1000-245, 1000-246, 1000-247, 1000-248, 1000-249, 1000-250, 1000-251, 1000-252, 1000-253, 1000-254, 1000-255, 1000-256, 1000-257, 1000-258, 1000-259, 1000-260, 1000-261, 1000-262, 1000-263, 1000-264, 1000-265, 1000-266, 1000-267, 1000-268, 1000-269, 1000-270, 1000-271, 1000-272, 1000-273, 1000-274, 1000-275, 1000-276, 1000-277, 1000-278, 1000-279, 1000-280, 1000-281, 1000-282, 1000-283, 1000-284, 1000-285, 1000-286, 1000-287, 1000-288, 1000-289, 1000-290, 1000-291, 1000-292, 1000-293, 1000-294, 1000-295, 1000-296, 1000-297, 1000-298, 1000-299, 1000-300, 1000-301, 1000-302, 1000-303, 1000-304, 1000-305, 1000-306, 1000-307, 1000-308, 1000-309, 1000-310, 1000-311, 1000-312, 1000-313, 1000-314, 1000-315, 1000-316, 1000-317, 1000-318, 1000-319, 1000-320, 1000-321, 1000-322, 1000-323, 1000-324, 1000-325, 1000-326, 1000-327, 1000-328, 1000-329, 1000-330, 1000-331, 1000-332, 1000-333, 1000-334, 1000-335, 1000-336, 1000-337, 1000-338, 1000-339, 1000-340, 1000-341, 1000-342, 1000-343, 1000-344, 1000-345, 1000-346, 1000-347, 1000-348, 1000-349, 1000-350, 1000-351, 1000-352, 1000-353, 1000-354, 1000-355, 1000-356, 1000-357, 1000-358, 1000-359, 1000-360, 1000-361, 1000-362, 1000-363, 1000-364, 1000-365, 1000-366, 1000-367, 1000-368, 1000-369, 1000-370, 1000-371, 1000-372, 1000-373, 1000-374, 1000-375, 1000-376, 1000-377, 1000-378, 1000-379, 1000-380, 1000-381, 1000-382, 1000-383, 1000-384, 1000-385, 1000-386, 1000-387, 1000-388, 1000-389, 1000-390, 1000-391, 1000-392, 1000-393, 1000-394, 1000-395, 1000-396, 1000-397, 1000-398, 1000-399, 1000-400, 1000-401, 1000-402, 1000-403, 1000-404,

TC LL	20.0 PSF	REF	R8228- 25731
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065035
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156333
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

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

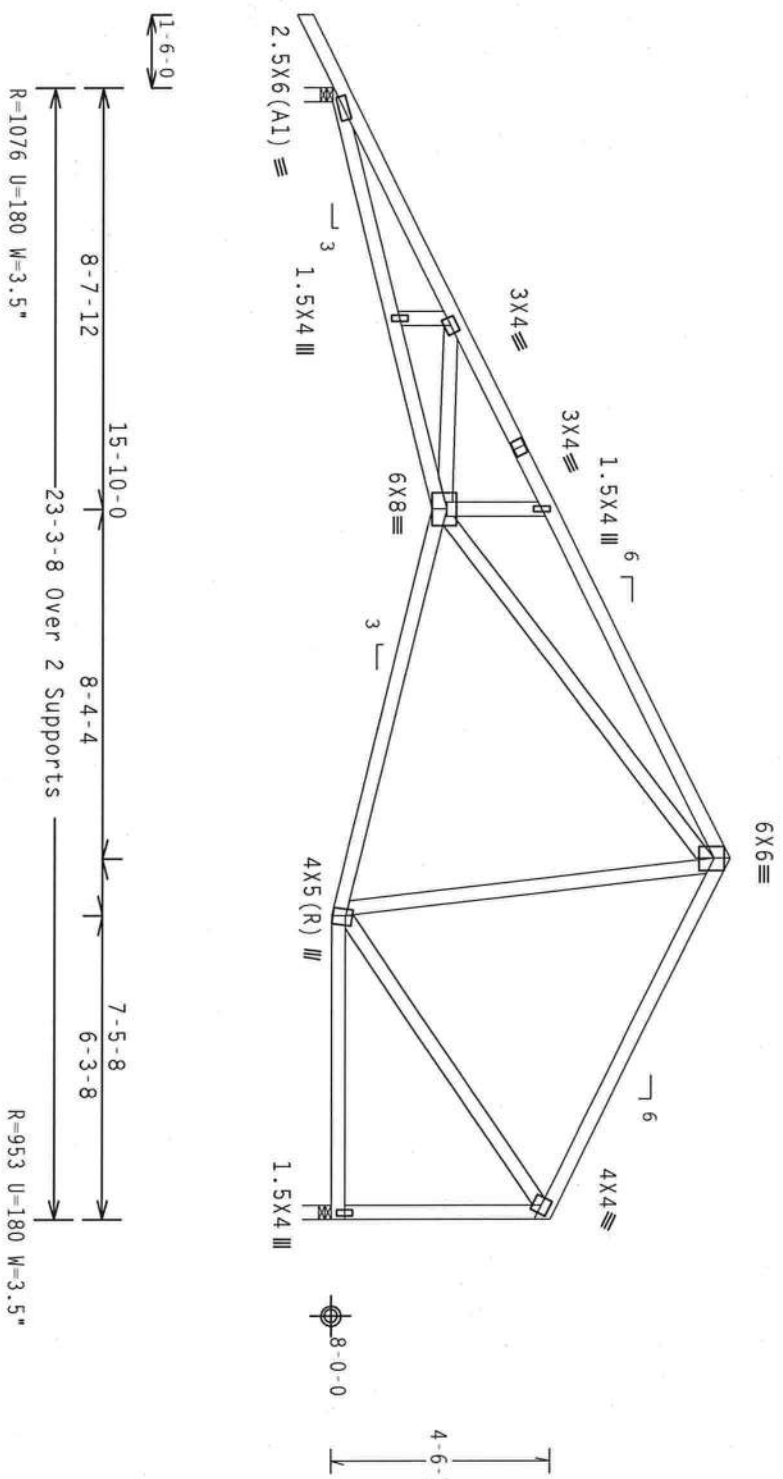
Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=-0.18$

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave

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

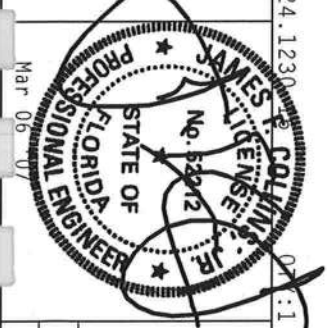
7.24.1230

Scale = .25" / ft.

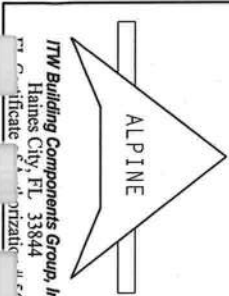
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS IS DESIGNED TO BE USED IN CONFORMANCE WITH THE FOLLOWING SPECIFICATIONS: NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND WFLA (GOOD TRUSS COUNCIL OF AMERICA), ENTERPRISE LANE, MADISON, 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. TTM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P&I AND TPI-1. TTM BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1600-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3.3. A SEAL ON THIS DESIGN SHOWS THE SIGNATURE AND SEAL OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 25732
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065036
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	156337
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228205



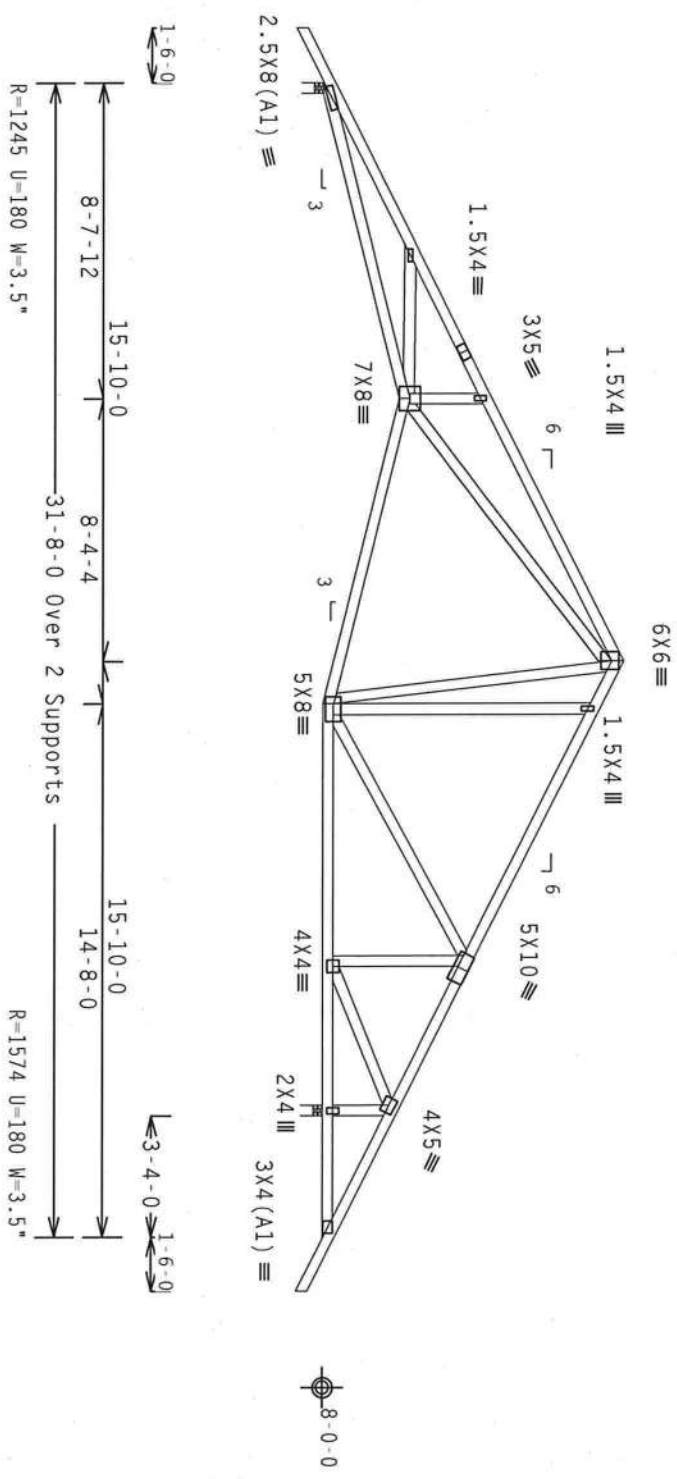
TTM Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 1000, Haines City, FL 33844

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$
Calculated horizontal deflection is 0.11" due to live load and 0.17" due to dead load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

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

7.24.1230

QTY: 1

FL/-/4/-/R/-

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22310 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TIV 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 AIAA) AND TPI. TIV BCG PLATES AND EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

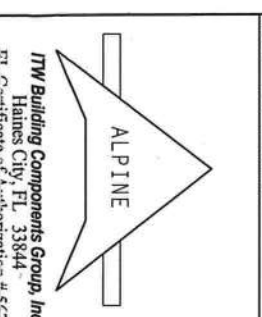
ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE SHOWN TO THE NEAREST 1/8" OR 1/16". DIMENSIONS ARE TO FACE UNLESS OTHERWISE INDICATED. DIMENSIONS ARE TO FACE UNLESS OTHERWISE INDICATED. DIMENSIONS ARE TO FACE UNLESS OTHERWISE INDICATED.

THIS DESIGN IS THE PROPERTY OF TIV BCG, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM TIV BCG, INC.

THIS DESIGN IS THE PROPERTY OF TIV BCG, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM TIV BCG, INC.



TC LL	20.0 PSF	REF	R8228- 25733
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065037
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEON-	156342
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05



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

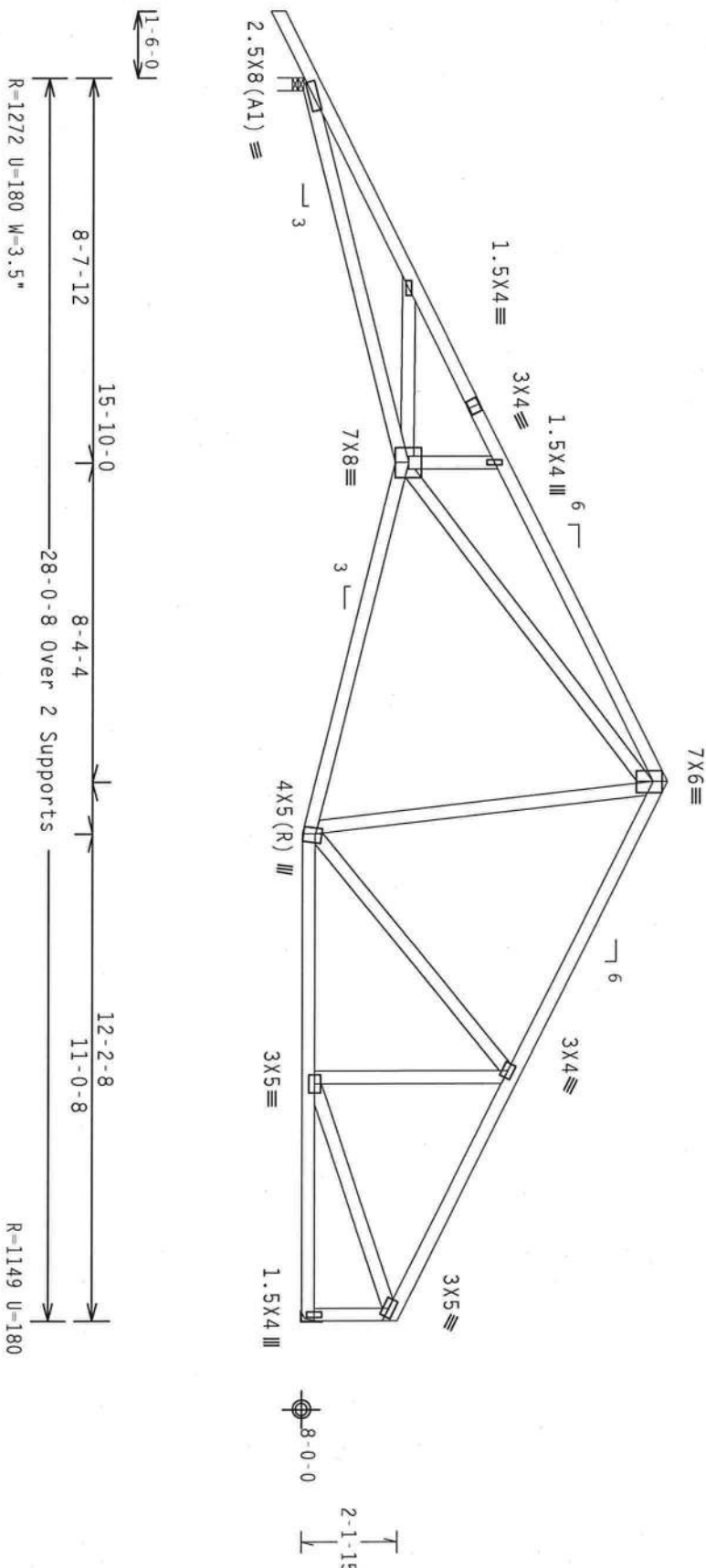
Calculated horizontal deflection is 0.11" due to live load and 0.18" due to dead load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1I, EXP B, 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.

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



Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1239$

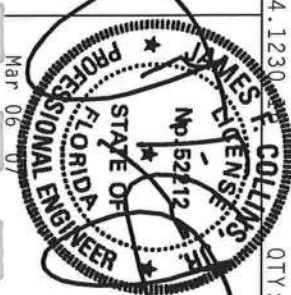
QTY:1 FL/-/4/-/-/R/-

Scale = .25"/Ft.

WARNING THESE BUILDING EXISTING CARE INFORMATION, HANDLING, SHIPPING, INSTALLING, AND PROTECTING REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRESS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 65000 INTERSTATE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES AND PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIBBED CEILING.

ALPINE

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



TC LL	20.0 PSF	REF	R8228 - 25734
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCU8R8228 07065057
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156347
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

THESE DOCUMENTS SONT LA PROPRIETE DE LA BIBLIOTHEQUE DE LA MAIRIE DE MONTREAL. ILS NE DOIVENT PAS ETRE REPRODUS NI COMMUNIQUEZ A TROISIEME PARTI.

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

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

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

Scale = .25"/Ft.

QTY 1.1230

2127-9-10

STATE OF

FLORIDA
NEE



Mr. U.S. District Court

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL DESIGN SHOWN. THE SUITABILITY AND USE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

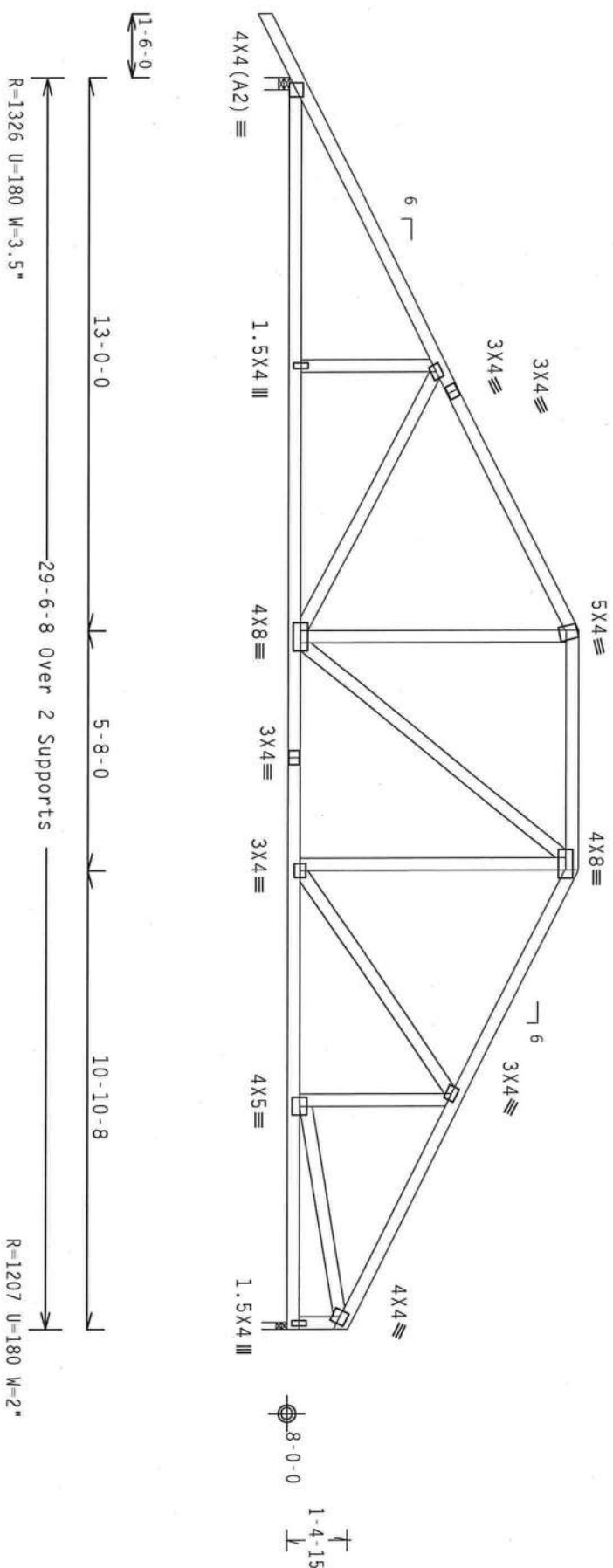
1 FL / 4 / - / - / R / -		Scale = .25" / Ft.
TC LL	20.0 PSF	REF R8228 - 25735
TC DL	10.0 PSF	DATE 03/06/07
BC DL	10.0 PSF	DRW HCUSR8228 07065058
BC LL	0.0 PSF	HC-ENG JB/AP
TOT. LD.	40.0 PSF	SEQN- 156354
DUR. FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5E8228J05

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

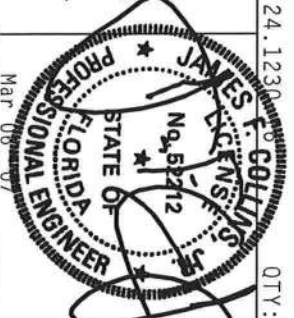
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

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

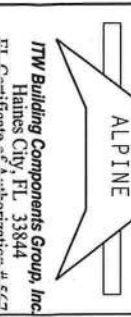
Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI, INC. (11111 ALPINE DRIVE, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICK (GOOD TRUSS COUNCIL OF AMERICA, 6100 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. TPI 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, BY A/R/A/P AND TPI, 11111 ALPINE DRIVE, SUITE 312, ALEXANDRIA, VA 22314, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2, 160AA-2, 160AB-2, 160AC-2, 160AD-2, 160AE-2, 160AF-2, 160AG-2, 160AH-2, 160AI-2, 160AJ-2, 160AK-2, 160AL-2, 160AM-2, 160AN-2, 160AO-2, 160AP-2, 160AQ-2, 160AR-2, 160AS-2, 160AT-2, 160AU-2, 160AV-2, 160AW-2, 160AX-2, 160AY-2, 160AZ-2, 160BA-2, 160BB-2, 160BC-2, 160BD-2, 160BE-2, 160BF-2, 160BG-2, 160BH-2, 160BI-2, 160BJ-2, 160BK-2, 160BL-2, 160BM-2, 160BN-2, 160BO-2, 160BP-2, 160BQ-2, 160BR-2, 160BS-2, 160BT-2, 160BU-2, 160BV-2, 160BW-2, 160BX-2, 160BY-2, 160BZ-2, 160CA-2, 160CB-2, 160CC-2, 160CD-2, 160CE-2, 160CF-2, 160CG-2, 160CH-2, 160CI-2, 160CJ-2, 160CK-2, 160CL-2, 160CM-2, 160CN-2, 160CO-2, 160CP-2, 160CQ-2, 160CR-2, 160CS-2, 160CT-2, 160CU-2, 160CV-2, 160CW-2, 160CX-2, 160CY-2, 160CZ-2, 160DA-2, 160DB-2, 160DC-2, 160DD-2, 160DE-2, 160DF-2, 160DG-2, 160DH-2, 160DI-2, 160DJ-2, 160DK-2, 160DL-2, 160DM-2, 160DN-2, 160DO-2, 160DP-2, 160DQ-2, 160DR-2, 160DS-2, 160DT-2, 160DU-2, 160DV-2, 160DW-2, 160DX-2, 160DY-2, 160DZ-2, 160EA-2, 160EB-2, 160EC-2, 160ED-2, 160EE-2, 160EF-2, 160EG-2, 160EH-2, 160EI-2, 160EJ-2, 160EK-2, 160EL-2, 160EM-2, 160EN-2, 160EO-2, 160EP-2, 160EQ-2, 160ER-2, 160ES-2, 160ET-2, 160EU-2, 160EV-2, 160EW-2, 160EX-2, 160EY-2, 160EZ-2, 160FA-2, 160FB-2, 160FC-2, 160FD-2, 160FE-2, 160FF-2, 160FG-2, 160FH-2, 160FI-2, 160FJ-2, 160FK-2, 160FL-2, 160FM-2, 160FN-2, 160FO-2, 160FP-2, 160FQ-2, 160FR-2, 160FS-2, 160FT-2, 160FU-2, 160FV-2, 160FW-2, 160FX-2, 160FY-2, 160FZ-2, 160GA-2, 160GB-2, 160GC-2, 160GD-2, 160GE-2, 160GF-2, 160GG-2, 160GH-2, 160GI-2, 160GJ-2, 160GK-2, 160GL-2, 160GM-2, 160GN-2, 160GO-2, 160GP-2, 160GQ-2, 160GR-2, 160GS-2, 160GT-2, 160GU-2, 160GV-2, 160GW-2, 160GX-2, 160GY-2, 160GZ-2, 160HA-2, 160HB-2, 160HC-2, 160HD-2, 160HE-2, 160HF-2, 160HG-2, 160HH-2, 160HI-2, 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160YL-2, 160YM-2, 160YN-2, 160YO-2, 160YP-2, 160YQ-2, 160YR-2, 160YS-2, 160YT-2, 160YU-2, 160YV-2, 160YW-2, 160YX-2, 160YY-2, 160YZ-2, 160ZA-2, 160ZB-2, 160ZC-2, 160ZD-2, 160ZE-2, 160ZF-2, 160ZG-2, 160ZH-2, 160ZI-2, 160ZJ-2, 160ZK-2, 160ZL-2, 160ZM-2, 160ZN-2, 160ZO-2, 160ZP-2, 160ZQ-2, 160ZR-2, 160ZS-2, 160ZT-2, 160ZU-2, 160ZV-2, 160ZW-2, 160ZX-2, 160ZY-2, 160ZZ-2.



TC LL	20.0 PSF	REF R8228- 25736
TC DL	10.0 PSF	DATE 03/06/07
BC DL	10.0 PSF	DRW HCUSR8228 07065038
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SECON- 156358
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5E8228205



TW Building Components Group, Inc.
Haines City, FL 33844
TPI Certificate # 52712

THIS WAS PREPARED FROM SUPPLIED INFO (LWAS & URMENJUN) SUBMITTED BY KRUS MRK.

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

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.

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

Scale = .25"/Ft.

4.1230 F6 COLLINS
Q1

REF	R8228 - 25737
DATE	03/06/07

Mar 06 '07

TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCSUR8228 070650
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156362
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

THIS WORK PREPARED FROM COMPUTER INPUT (LVALUES & DIMENSIONS) SUBMITTED BY KRUSZ M.F.

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

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.



Scale = .25" / Ft.

JAMES F. COLLINS
LICENSE
No. 52216-1
JR

STATE OF INDIANA

FLORIDA

PROFESSIONAL ENGINEER

Mar 06 07

06-07

TC LL	20.0 PSF	REF	R8228 - 25738
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065040
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SECN-	156366
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF -	1T5E8228Z05

[illegible]

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

Right end vertical not exposed to wind pressure.

See DWGS A11015EE1106 & GBLETTIN1106 for more requirements.

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

Scale = .3125"/Ft.

REF	R8228 - 25739
DATE	03/06/07

HC-ENG JB/AP *

FROM JFB

1. **Identify the main purpose of the document.**
 2. **Summarize the key points in your own words.**
 3. **Identify the author's tone and bias.**
 4. **Identify the audience for the document.**
 5. **Identify the main argument or conclusion.**
 6. **Identify the supporting evidence.**
 7. **Identify the counterarguments and rebuttals.**
 8. **Identify the conclusion and recommendations.**
 9. **Identify the sources of information.**
 10. **Identify the date and location of the document.**

SPECIAL LOADS

Wind reactions based on MWFRS pressures.

2 COMPLETE TRUSSES REQUIRED

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

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

Bot Chord: 1 Row @ 3.50" o.c.

 Webs : 1 Row @ 4" o.c.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 1, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI (+/-)=0.18

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

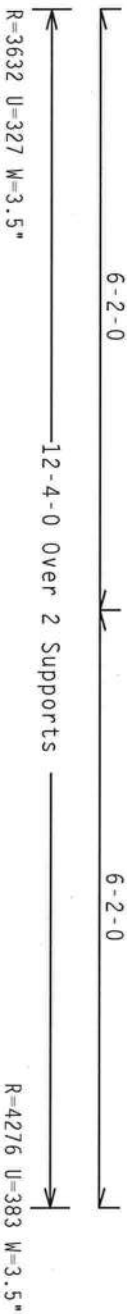
Bot Chord: 1 Row @ 3.50" 0.c.c.

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

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



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

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

7.24.1230 16 QTY:1

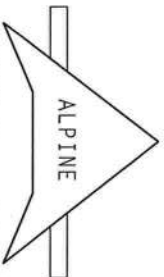
QTY:1 FL/-/4/-/-/R/-/

Scale = .5"/Ft.

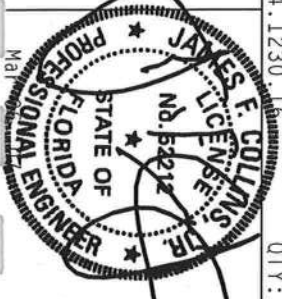
WARNING: THIS IS A BUILDING EXISTENCE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO OCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

IMPORTANT ARABISH: A COPY OF THIS DESIGN TO THIS DESIGN TO BE THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TROSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC. BY ARPA) AND TPI. THE BCG INC. SHALL CONDUCT CORRECTION PLATES ARE MADE OF 20/20/1664 (4H/5525) ASTM A563 GRADE 40/60 (4H, 20/1/55) GALV. STEEL, APPLY PLATES TO EACH FACE OF TROSS AND, THE OTHERS OTHERWISE LOCATED ON THIS DESIGN, PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE ENGINEER AS OF TPI-1 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TROSS 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.



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



TC LL	20.0 PSF	REF	R8228 - 25740
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065059
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156391
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

INTO THE FATHERLAND FROM SWITZERLAND (LUBAS & ULMENSTADT) SUBMITTED BY KENNETH M. K.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI (+/-)=0.18

See DWGS A11015EE1106 & GBLETTIN1106 for more requirements.

Truss spaced at 24.0" OC designed to support 1.0-0 top chord outlookers. Cladding load shall not exceed 10.00 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.



Scale = .5" / Ft.

SALES
LICENSE
No 52212

ITW Building Components Group, Inc.

Haines City, FL 33844

Mar 06 07

TC LL	20.0 PSF	REF	R8228- 25741
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065060
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156382
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

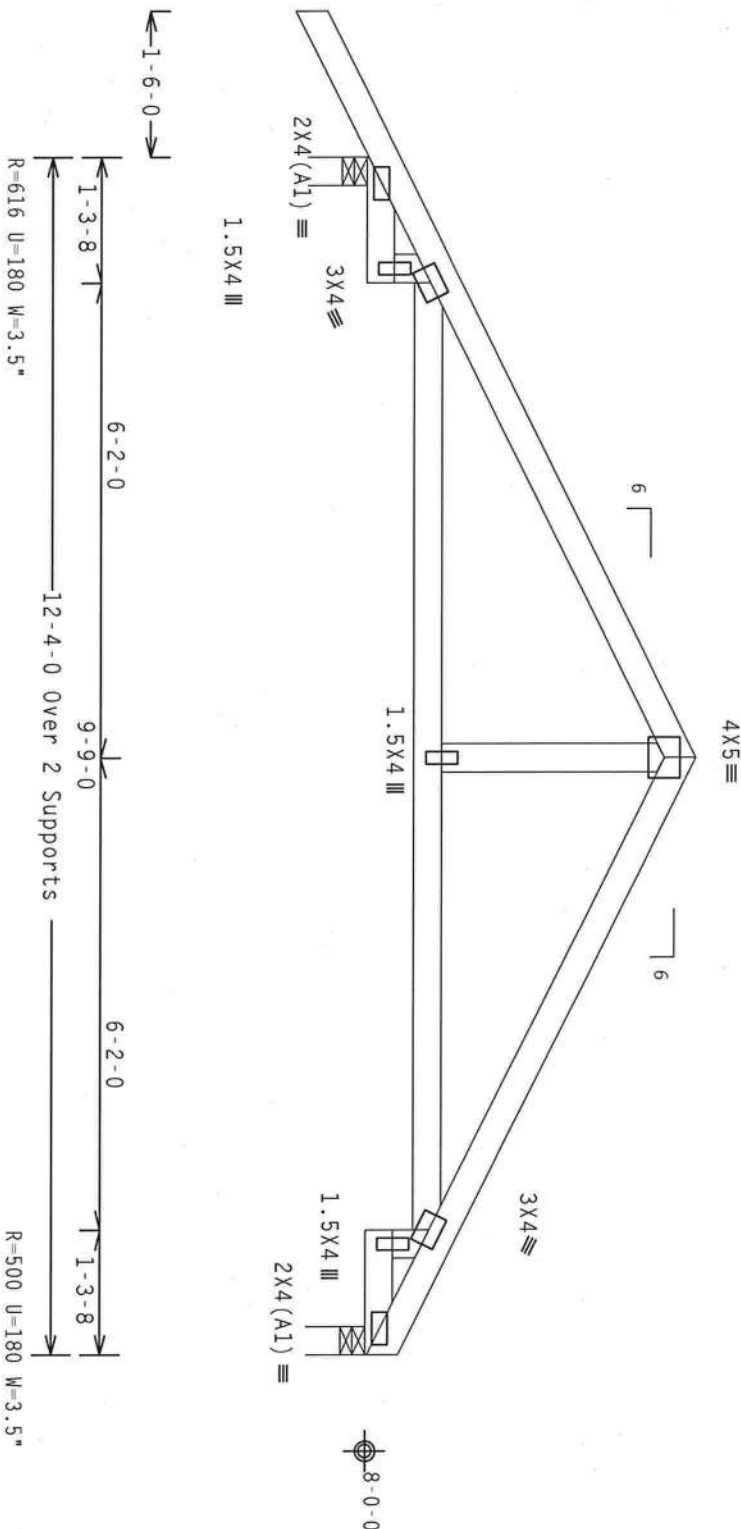
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

Calculated horizontal deflection is 0.12" due to live load and 0.19" due to dead load.

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

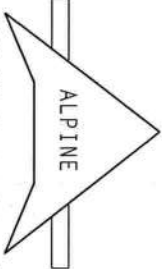
Design Crit: $TPI-2002(STD)/FBC$
$$Cq/RT=1.00(1.25)/10(0)$$

7.24.1230

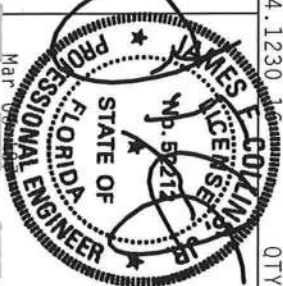
QTY:1 FL/-/4/-/-/R/-

Scale = .5" / Ft.

WARNING—THIS BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WFLA (6000 TRUSS COMPANY OF AMERICA, 65000 ENTERPRISE LANE, MADISON, MI 48226) FOR SAFETY PRACTICES, PERTAIN TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

ITW Building Components Group, Inc.



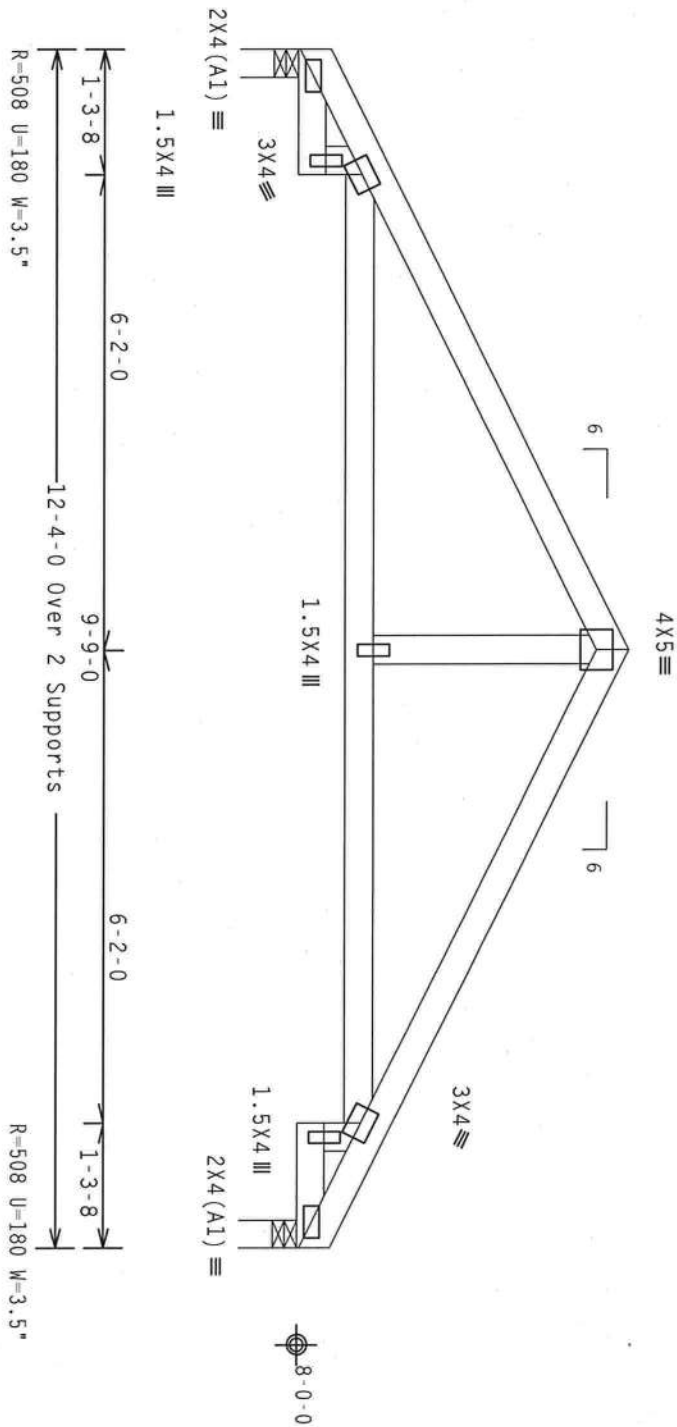
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TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065001
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	156164
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$
Calculated horizontal deflection is 0.13" due to live load and
0.21" due to dead load.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



PLT TYP. Wave

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

7.24.1230

TY:1

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

Scale = .5"/ft.

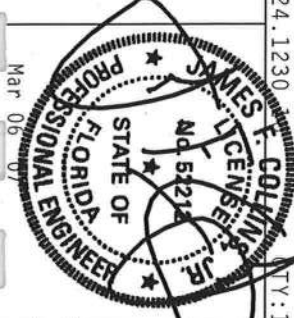
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 6200 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6200 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TURNISH 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 AND BRACING OF TRUSSES.

CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2.

ALL TRUSS PLATES SHALL BE FOLLOWED BY (1) SHALL BE PER AREA AS OF TPI-1-2002 SEC.3.3 FOR THE TRUSS COMPONENT DESIGN INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ITW Building Components Group, Inc.
Haines City, FL 33844
PL Certificate of Approval #567



TC LL	20.0 PSF	REF	R8228- 25743
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065042
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	156388
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

Top chord 2x4 SP #2 Dense : T2 2x6 SP #1 Dense:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

SPECIAL LOADS

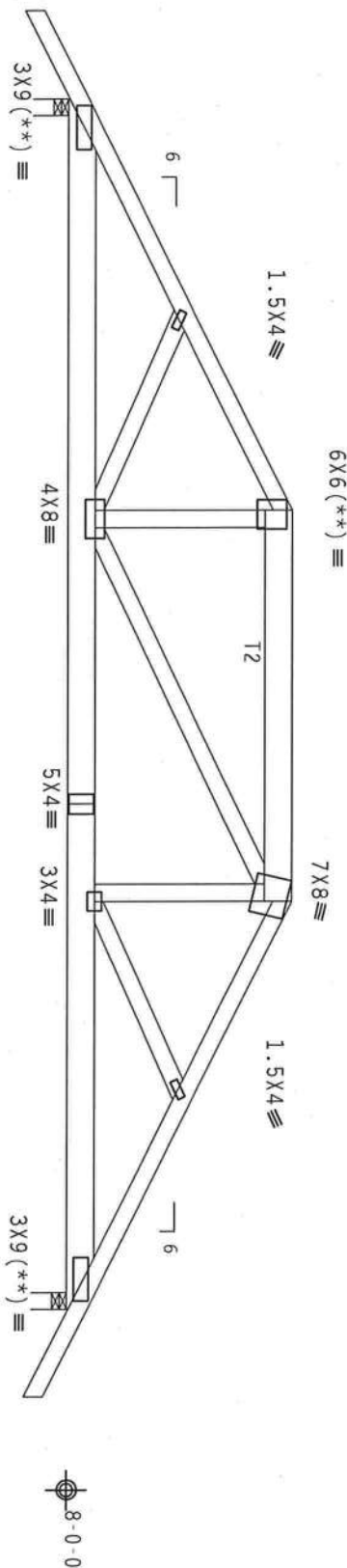
----- (LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25)	
TC - From	62 PLF at -1.50 to 62 PLF at 7.00
TC - From	31 PLF at 7.00 to 31 PLF at 13.67
TC - From	62 PLF at 13.67 to 62 PLF at 22.17
BC - From	4 PLF at -1.50 to 4 PLF at 0.00
BC - From	20 PLF at 0.00 to 20 PLF at 7.00
BC - From	10 PLF at 7.00 to 10 PLF at 13.67
BC - From	20 PLF at 13.67 to 20 PLF at 20.67
BC - From	4 PLF at 20.67 to 4 PLF at 22.17
TC - 438 LB Conc.	Load at 7.06, 13.60
TC - 187 LB Conc.	Load at 9.06, 10.33, 11.60
BC - 522 LB Conc.	Load at 7.00, 13.67
BC - 82 LB Conc.	Load at 9.06, 10.33, 11.60

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

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

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

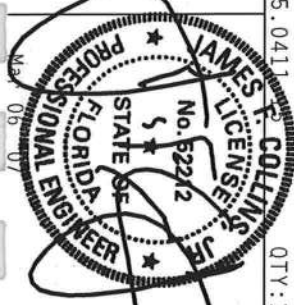
Cq/RT=1.00(1.25)/10(0) 7.25.0411

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

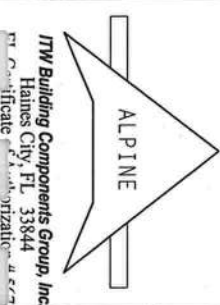
Scale = .3125"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY PRACTICES FOR TRUSSES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WFLA (GOOD TRUSS COUNCIL OF AMERICA), 6100 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 TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITN 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 AIA/P&I AND TPI. ITN BCG CONNECTIONS ARE MADE OF 20/18/16GA (W/H/SS) ASTM A653 GRADE 40/60 (W. R/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. CONNECTIONS OF PLATES TO TRUSS CHORDS SHALL BE MADE BY (1) SHALL BE PER ANEX AS OF TPI-2002 SEC.3.3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 25744
TC DL	10.0 PSF	DATE 03/06/07
BC DL	10.0 PSF	DRW HCUSR8228 07065061
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 85833 REV
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5E8228205



ITN Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 1000, Haines City, FL 33844

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

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



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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$

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

Scale = .3125"/Ft.

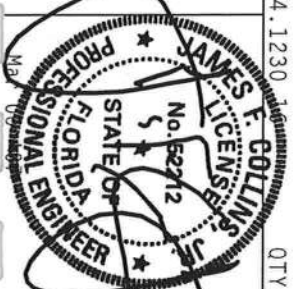
WARNING: *** FRUES (BUILDING COMPONENT SAFETY INFORMATION) *** PUBLISHED BY TPI (STRESS PRACTICE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND KNOX TRUSS COMPANY, OF AMERICA, 6300 ENTERPRISE LANE, MONTICELLO, MI 48159 FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
Certificate of Authorization # 667



FL/-4/-/-/R/-	Scale = .3125"/Ft.	
TC LL	20.0 PSF	REF R8228- 25746
TC DL	10.0 PSF	DATE 03/06/07
BC DL	10.0 PSF	DRW HCUR8228 07065044
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT. LD.	40.0 PSF	SEQN- 156269
DUR. FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5E8228Z05

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

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



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

7.24.1230

QTY:1

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

Scale = .3125"/Ft.

WARNING: TROISSER REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPIING, INSTALLING AND BRACING. REFER TO DESIGN (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TROSSER PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICKA WOOD TROSSER COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, MI 48721) FOR SAFETY PRACTICES RELATIVE TO PERFORMING THESE FUNCTIONS. UNDESIRABLE ONCE-INSTEAD TIGHT 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 CONFORMANCE WITH

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

CONNECTOR PLATE MADE OF 20/10/16GA (M. H./S./K.) AS7M A65 GRADE 40/60 (M. K./H./SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604- AND INTERSECTION OF ALL TYPE JOISTS AND BEAMS SHALL BE MADE IN ACCORDANCE WITH THE FOLLOWING:

ART INSPECTION PLATES FOLLOWED BY (1) SHALL BEER ANNEX A3 OF TPI-1-2002 SEC.3. A SEAL ON THE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT END AND BUILDING IS THE RESPONSIBILITY OF THE

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

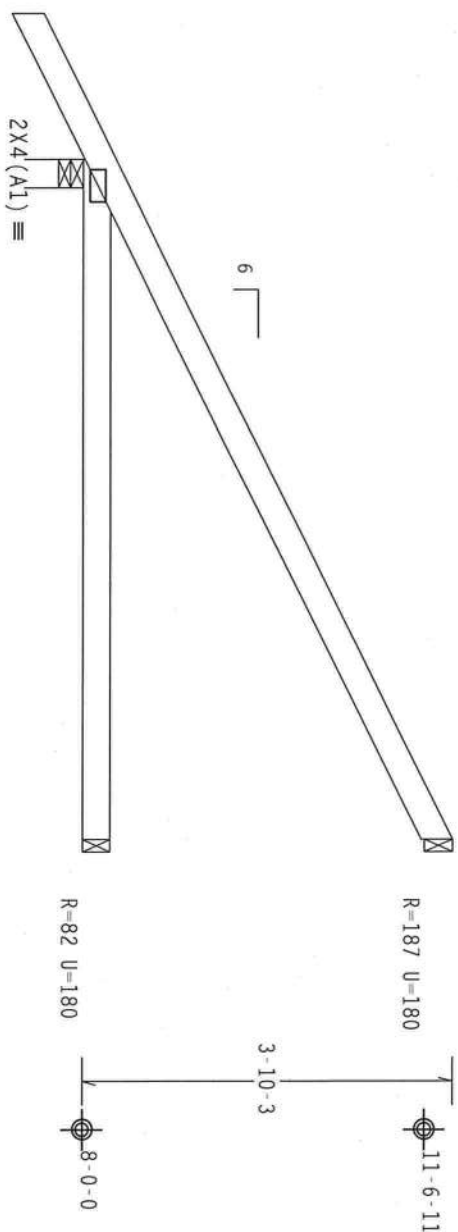
TC LL	20.0 PSF	REF	R8228 - 25747
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065045
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	156273
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

THIS WORK PREPARED FROM COMPUTER INPUT (LUAUS & DIMENSIONS) SUBMITTED BY JUDAS MFK.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

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

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



0-6-0

7-0-0 Over 3 Supports $R=408$ $U=180$ $W=3.5"$

PLT TYP. Wave

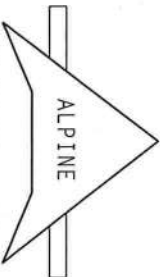
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)

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

7.24.1230

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

Scale = .5" / Ft.



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

WARNING—FIRE RESISTING EXTERIOR GATE IN FABRICATION, HANDING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING COMPONENT SPECIFICATION), PUBLISHED BY TPI (TRESS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719) FOR SPECIALTY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

RESPONSIBLE FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITC BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TUBS IN CONFORMANCE WITH THE TYPE OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BACKING OF TUBS.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MSD (NATIONAL DESIGN SPEC. BY AIA/A) AND TFL. TUBS TO BE BUILT BY THE CONTRACTOR. TUBS ARE MADE OF 20/10/1604 (H/SS/PS) ASHLE 6052 DIADOT 4030 (H/MS/SS) GALV. STEEL. APPLY 100% OF THE TUBS AND PLATES TO EACH FACE OF TUBS AND, UNLESS OTHERWISE SPECIFIED, POSITION PER DRAWINGS 1606-2. THE POSITION OF THE TUBS FOLLOWED ARE: (1) SHALL BE PER ANGLES 35 OF TFL-1-2002-SEC.3, (2) DRAWING 1606-2 OF TFL-1-2002-SEC.3, (3) SHALL BE PER ANGLES 35 OF TFL-1-2002-SEC.3.

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



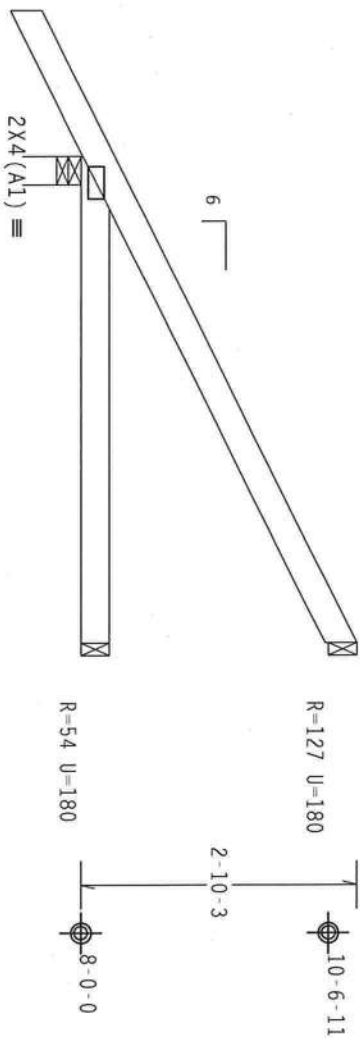
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TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065046
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT. LD.	40.0 PSF	SEQN -	156235
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF -	1T5E8228Z05

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

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 Gcpl(+/-)=0.18
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



1-6-0

5-0-0 Over 3 Supports
R=331 U=180 W=3.5

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

OT:1

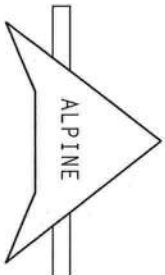
FL-4/-/-R/-

Scale = .5"/ft.

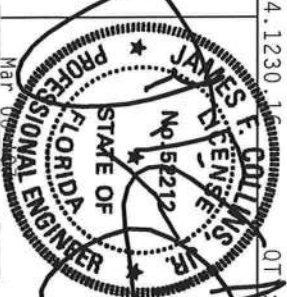
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGNER'S BUILDING COMPONENT SAFETY INFORMATION, WHICH IS A PUBLISHED PRESS RELEASE, FOR THE FOLLOWING INFORMATION: 1. THE TRUSSES ARE DESIGNED FOR THE FOLLOWING FUNCTIONS, UNLESS OTHERWISE 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 CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/NA) AND TPI. 11W BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/TS) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R8228- 25749
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065047
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156241
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T5E8228Z05

THESE STUDIES HAVE CONFLICTING RESULTS (LEWIS & WILKINSON) REGARDING THE EFFECTS OF

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPI (+/-)=0.18

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

Structural drawing of a roof truss. The drawing shows a truss with a horizontal bottom chord and two inclined top chords meeting at a peak. The bottom chord is labeled $4 \times 4 \equiv$ at the left end and $1.5 \times 4 \equiv$ at the right end. The left inclined chord is labeled $2 \times 4 (A1) \equiv$. The right inclined chord is labeled $3 \times 4 \equiv$. A vertical member connects the bottom chord to the right inclined chord, labeled $4.24 \equiv$. The truss is supported by a pin support at the left end and a roller support at the right end. Dimensions are given as $R=441$ and $U=180$. A vertical dimension line on the right indicates a height of $11-6-3$ and a total height of $3-9-14$. A horizontal dimension line at the bottom indicates a width of $8-0-0$.

9-10-13 Over 3 Supports —————
R=643 U=222 W=4.95"

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

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

7.24.1230

QTY:1

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

Scale = .5" / Ft.

WARNING** THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DRAGGING. THESE REQUIREMENTS ARE BASED ON THE ASSUMPTION THAT THE BUILDING COMPONENTS WILL BE INSTALLED IN THE MANNER AND LOCATION INDICATED ON THE DRAWINGS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND THE AMERICAN INSTITUTE OF STRUCTURAL ENGINEERS, 6300 ENTERPRISE LANE, MONTGOMERY, MD 20819 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGID CEILING.

****IMPORTANT****—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. (BY AIA/A) AND TP1. THE BEAM CONNECTOR PLATES ARE MADE OF 20/18/16 GA. H/SS/25. ASH 6653 GRADE 60/60 (H. K/1/55) GALV. STEEL. APPLICABLE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/TP1 SEC. 2.

FL/-/4/-/-/R/-		Scale=.5"/Ft.	
TC LL	20.0 PSF	REF	R8228- 25750
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065051
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156257
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228205

(7-074-1 -- 1 - C03)

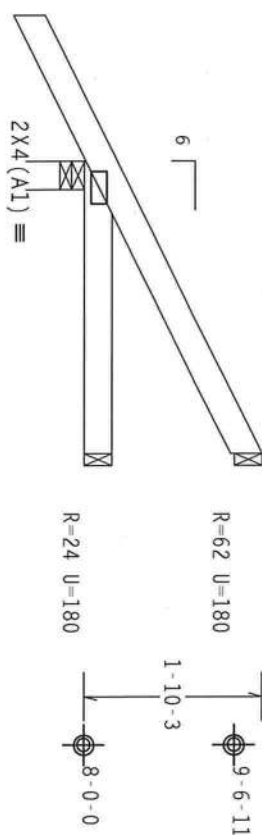
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MMFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{cpl}(+/-)=0.18$

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



←1-6-0→

3-0-0 Over 3 Supports

R=262 U=180 W=3.5"

PLT TYP. Wave

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

7.24.1230

OTX:1

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

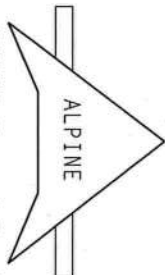
Scale =.5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 310 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (WOOD TRUSS CONNCTION 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.

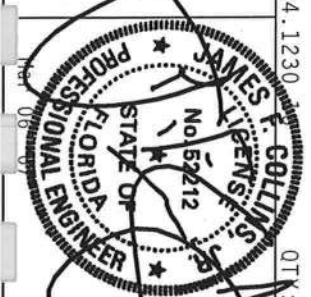
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/NA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 70/18/1664 (W/H/SS/RS) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTED PROFESSIONAL ENGINEERING RESPONSIBILITY. SILENT FOR THE TRUSS COMPONENT DESIGN SHOWN THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/TPI 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 1000, Haines City, FL 33844



TC LL	20.0 PSF	REF	R8228-25751
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCU8R8228 07065002
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	155288
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228205

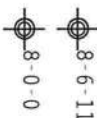
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

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.



R=-.56 U=180
R=-.15 U=180


$$2 \times 4(A1) =$$

1-6-0

1-0-0 Over 3 Supports

R=254 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

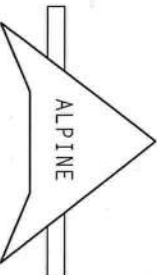
 $Cq/RT=1.00(1.25)/10(0)$

7.24.1230

QTY:1

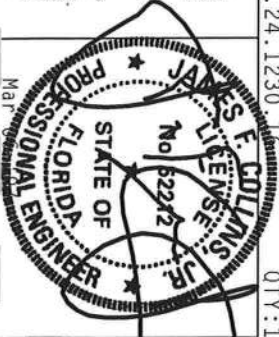
FL/-/4/-/-/R/-/

Scale = .5"/Ft.



ITW Building Components Group, Inc.
Haines City, FL 33844
ET Certificate of Authorization # 667

WARNING: THESE BUILDING EXISTENCE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO BC61 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND THE GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, WADSWORTH, MI 48093. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TWO CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

TC LL	20.0 PSF	REF	R8228- 25752
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCUSR8228 07065062
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	156248
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228Z05

(7-074-1 - - 1 - HJ7 S)

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

Wind reactions based on MMFRS pressures.

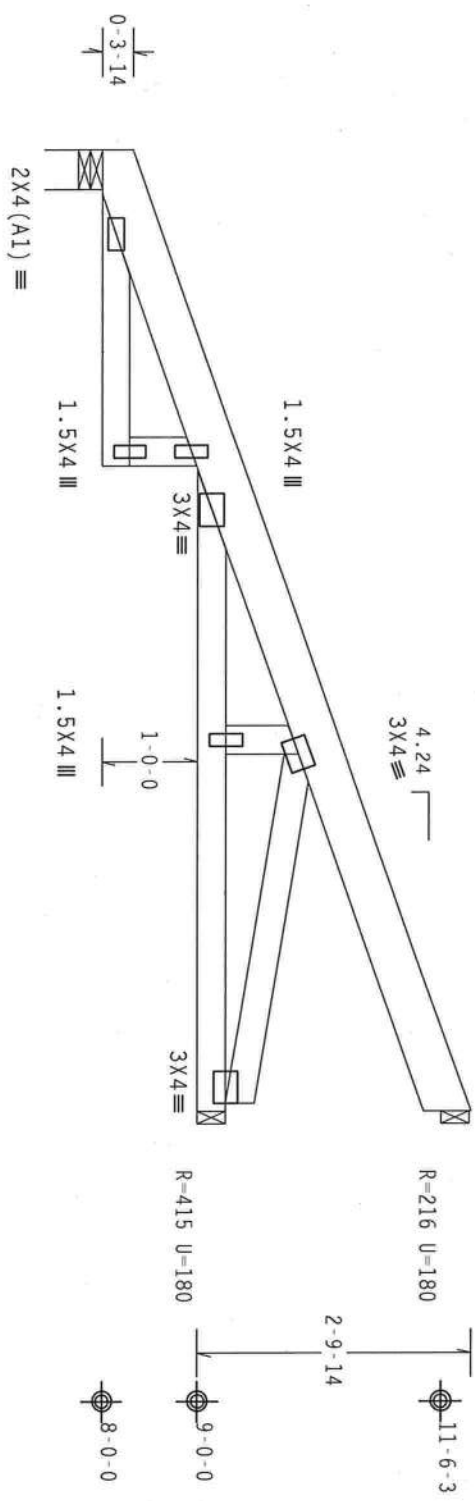
Hipjack supports 7-0-0 setback jacks with no webs.

See detail BCFILLER1106, TCFILLER1106 and REPBCFIL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point)

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

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

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



R=336 U=180 W=4.95"
9-10-13 Over 3 Supports

PLT TYP. Wave

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

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

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE ATTENTION IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES SHOULD BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100. TRUSSES SHOULD BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

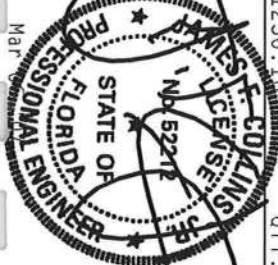
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC 360-10 (AISC 360-10) AND AISC 360-11 (AISC 360-11). TRUSSES SHOULD BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

DESIGN AND MANUFACTURE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC 360-10, 360-11, 360-12, 360-13, 360-14, 360-15, 360-16, 360-17, 360-18, 360-19, 360-20, 360-21, 360-22, 360-23, 360-24, 360-25, 360-26, 360-27, 360-28, 360-29, 360-30, 360-31, 360-32, 360-33, 360-34, 360-35, 360-36, 360-37, 360-38, 360-39, 360-40, 360-41, 360-42, 360-43, 360-44, 360-45, 360-46, 360-47, 360-48, 360-49, 360-50, 360-51, 360-52, 360-53, 360-54, 360-55, 360-56, 360-57, 360-58, 360-59, 360-60, 360-61, 360-62, 360-63, 360-64, 360-65, 360-66, 360-67, 360-68, 360-69, 360-70, 360-71, 360-72, 360-73, 360-74, 360-75, 360-76, 360-77, 360-78, 360-79, 360-80, 360-81, 360-82, 360-83, 360-84, 360-85, 360-86, 360-87, 360-88, 360-89, 360-90, 360-91, 360-92, 360-93, 360-94, 360-95, 360-96, 360-97, 360-98, 360-99, 360-100.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 25753
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCU8R8228 07065063
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	156289
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5E8228205

(7-074-1 -- 1 - E07 S)

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

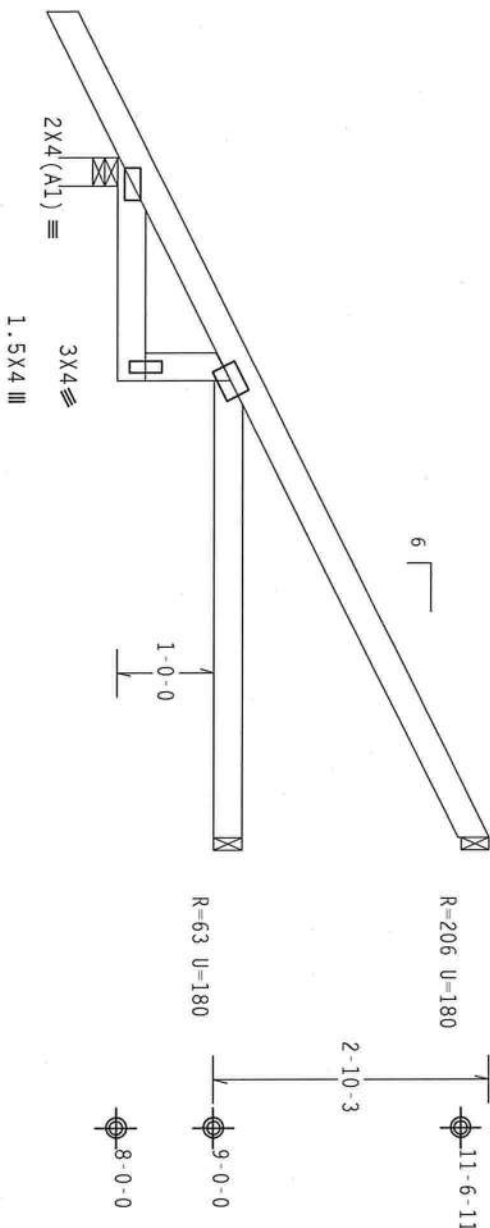
Wind reactions based on MFERS pressures.

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

See detail BCFILLER106, TCFILLER106 and REPBCLL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point)

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1W=1.00 GCP(+/-)=0.18

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



1/8"=1'-0"

2-3-8 4-8-8
7-0-0 Over 3 Supports
R=408 U=180 W=3.5"

PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 AIA/ASA AND TPI. ITW BCG PLATES EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROJECT AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Design Crit: TPI-2002(STD)/FBC

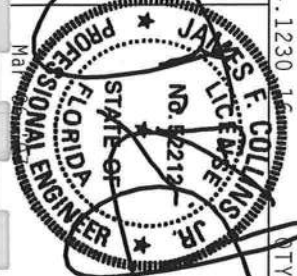
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7.24.1230

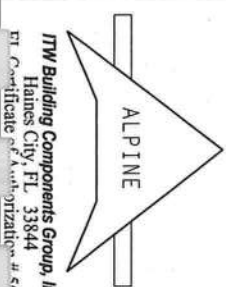
QTY:1

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

Scale =.5"/ft.



TC LL	20.0 PSF	REF	R8228-25754
TC DL	10.0 PSF	DATE	03/06/07
BC DL	10.0 PSF	DRW	HCU8R8228 07065064
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	156276
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	UREF-	1T5E8228205



ITW Building Components Group, Inc.
Haines City, FL 33844
PLT Certificate of Authorization #567

THIS WORK PREPARED FROM COMPUTER INPUT (LUAUS & DIMENSIONS) SUBMITTED BY KUSS MFK.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 gcpl(+/-)=0.18

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

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

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

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

QTY:1

Scale = .5" / Ft.

7.24.1230

7.24.1230

7.24.1230

7.24.1230

7.24.1230

7.24.1230

7.24.1230

QTY:1

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

Scale = .5" / Ft.

PLT TYP. Wave

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

QTY:1

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

Scale = .5" / Ft.

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.

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE.
FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE
BRACING.

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

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

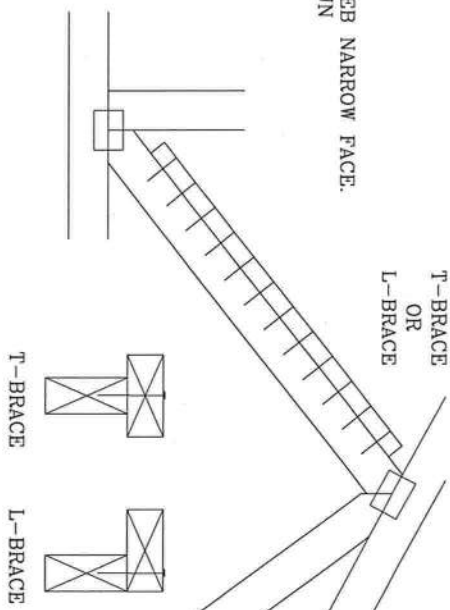


ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

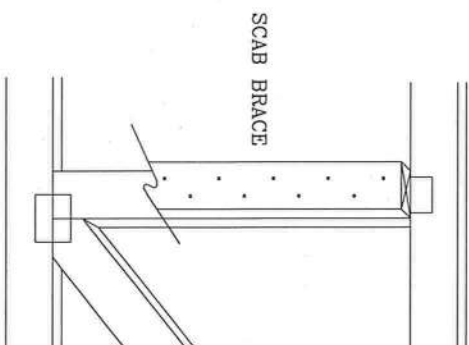
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TRUSS PLANING AND MANUFACTURING INSTITUTE, 210 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22304 AND VITA CADDO TRUSS COMPANY, 6500 ENTERPRISE BLVD, HANSDEN, MI 49429 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. TRUSSES SHOULD BE STORED AND TRANSPORTED PROPERLY. ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION AND THE TPI DESIGN CONNECTOR PLATES ARE MADE OF 20/16/16GA (W/H/SS/25) 5/16" THICK 40/16GA (W/H/SS/25) 1/2" THICK. THE BOTTOM CHORD SHALL BE 20/16/16GA (W/H/SS/25) 5/16" THICK. THE TOP CHORD SHALL BE PER ANGLE 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.

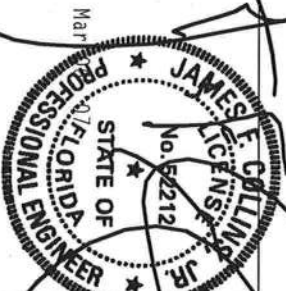
APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10D BOX OR GUN
(0.128" x 3" MIN) NAILS.
AT 6" O.C. BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



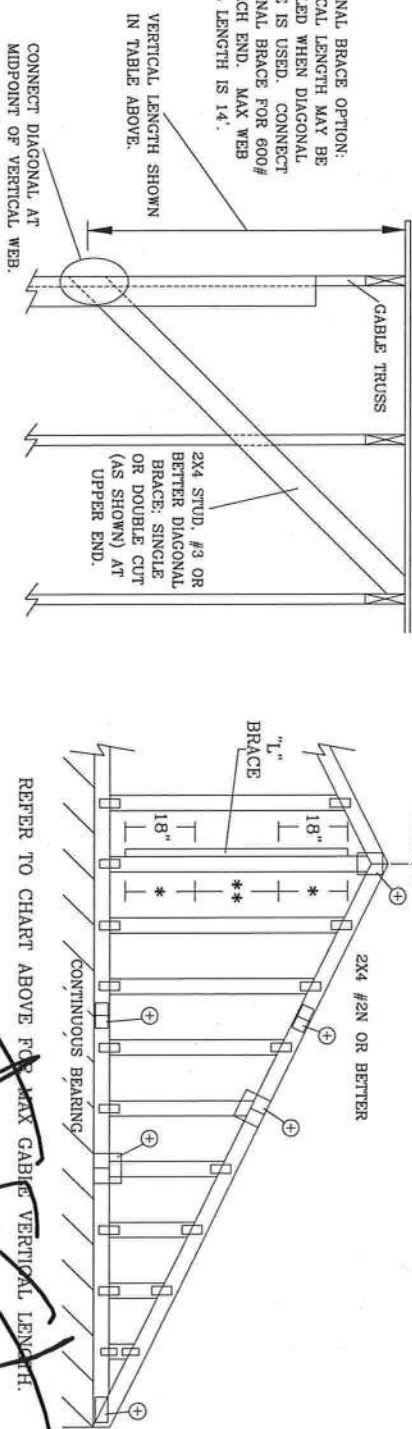
APPLY SCAB(S) TO WIDE FACE OF WEB
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3", MIN) NAILS.
AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/1/06
BC DL	PSF	DRWG	BRCLESUB1106
BC LL	PSF	-ENG	MLH/KAR
TOTL. LD.	PSF		
DUR. FAC.			
SPACING			



LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER
 CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM 4" 0"
 OUTLOOKERS WITH 2" 0" OVERHANG, OR 12"
 PLAYWOOD 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.

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

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPICE
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, SPICE, AND HEEL PLATES.

REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

*WARNING: THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS LATE ANSTITUTE, 60 NORTH HAVEN ST., SUITE 312, ALEXANDRIA, VA 22304 AND WCA CLOUD TRUSS CONSULT INC., 2180 S. 17TH AVENUE, SUITE 100, DENVER CO 80202 FOR THE PROPER BRACING OF THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

*IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ALPINE ENGINEERING PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF ROSES ASSUMED ON OTHERS AT ALL TIMES. PROVIDIONS OF NON-CANADIAN DESIGN SPECIFICATIONS ARE APPLICABLE TO THIS DRAWING. PLATES SHALL BE GALVNEALZED STEEL UNLESS OTHERWISE GRADING 40,660 CYK/HSS GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SHOWN, SHALL BE PER ANNEA 3 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.



MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF	ASCE7-02-GABI1015
DATE	11/1/06
DRWG	A11015EE1106
-ENG	

SYM. ABOUT C

FOR LET-IN VERTICALS

GABLE VERTICAL LENGTH TYP.

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN. ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS.

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE
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 ENGINEERED TRUSS DESIGN SPLICE, WEB AND HEEL PLATES.

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

EXAMPLE:

2X4

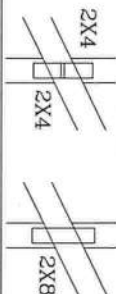
2X4

CABLE 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

④ REFER TO ENGINEERED CROSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

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

EXAMPLE



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

HAND DRIVEN NAILS:

10d COMMON (0.148"Y 3" MIN) TOENAILS AT 4" OC PILLS

(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 CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 CABLE DETAIL DRAWINGS

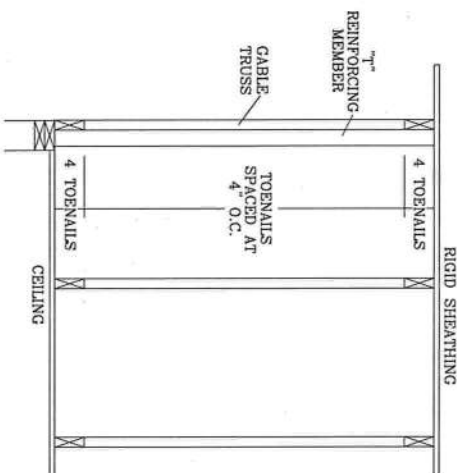
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103

ASCE 7-02 CABLE DETAIL DRAWINGS

A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE CABLE DETAIL. (ASCE OR SBCCI)

VERTICAL LENGTH.



****WARNING** ISSUES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENTS SAFETY INFORMATION, PUBLISHED BY THE TROUSDA PATENT INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22304 AND VITA CAVOD TRUSS CONSULTANTS INC., 6300 ENTERPRISE LN. MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO ERECTING THESE STRUCTURES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.**

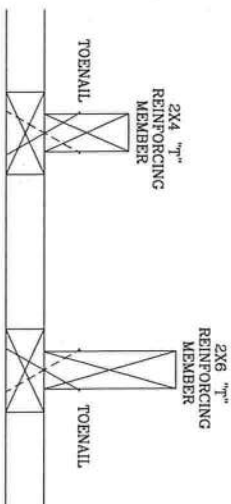
ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

IMPORTANT: A TRUE COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY A760A AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 80/18/B66 C/N/A/SX-90 ASTM A57M GRADE 60/65 KSI STEEL. ALL PLECTER PLATES ARE ON THE FACE OF TRUSSES AND UNLESS OTHERWISE INDICATED BY OTHER NOTES, ALL DIMENSIONS ARE AS SHOWN. SEE DRAWINGS FOR DETAILS. THIS DOCUMENT SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. REGARDING THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING OWNER. PER ANSI/TPI 1 SEC. 2.

TO CONVERT FROM "L" TO "W" REINFORCING MEMBERS, MULTIPLY "W" 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 "W" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.



WIND SPEED AND MRH	"T" REIN. MR. SIZE	SBCI	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

CABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4

"L" 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"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF LET-IN VERT

DATE 11/1/06

DRWG GBLLETIN1106

-ENG DLJ/KAR

MAX TOT. LD. 60 PSF

DUR. FAC. ANY

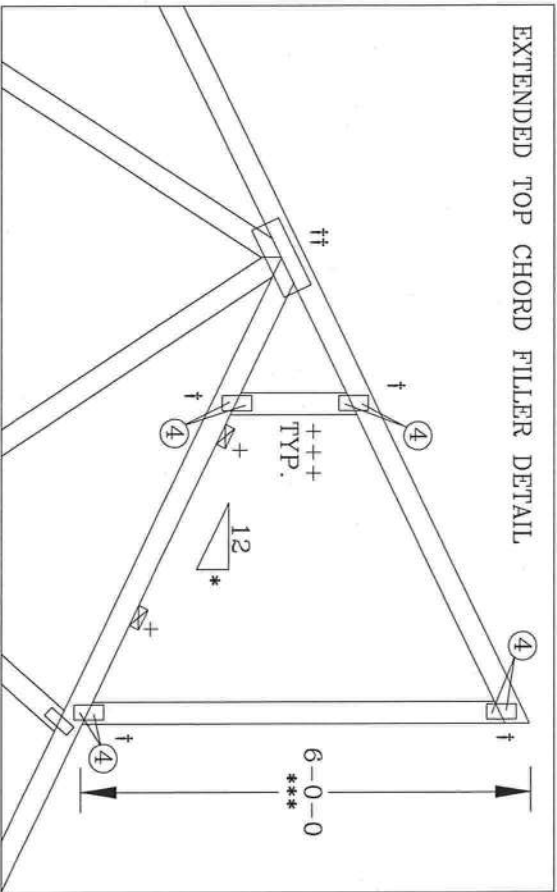
MAX SPACING 24.0"



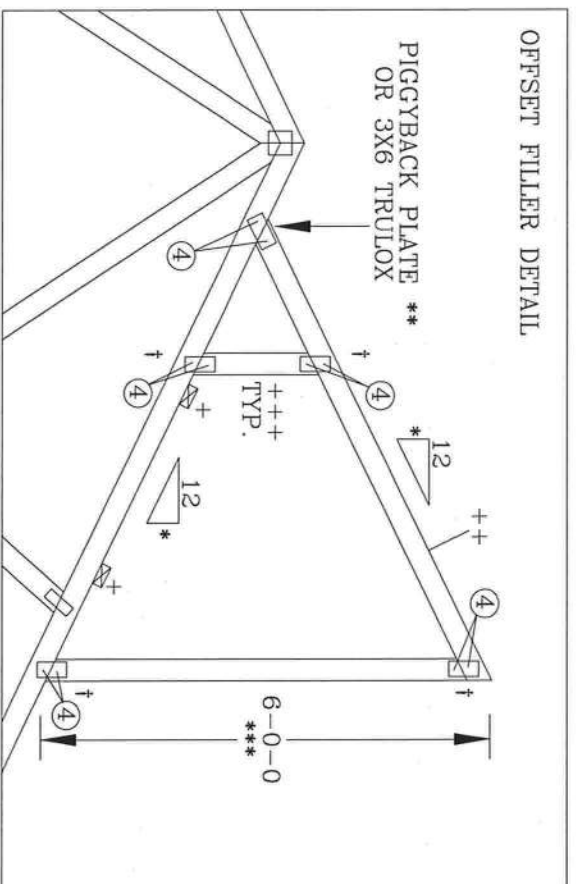
TOP CHORD FILLER DETAIL

- + 2X4 CONTINUOUS LATERAL BRACING AT 24" O.C. MAXIMUM SPACING. ATTACH TO EACH TOP CHORD WITH (2) 16d COMMON (0.162"x 3.5", MIN) NAILS.
- BRACING MATERIAL TO BE SUPPLIED AND ATTACHED AT BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.
- ++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.
- +++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED 48" OC MAXIMUM.
- * 8/12 MAXIMUM PITCH.
- ** 2X8.25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699 FOR PIGGYBACK SPECIAL PLATE INFORMATION.
- *** 6'0" MAXIMUM HEIGHT.
- † W2X4 OR 3X6 TRULOX.
- †† REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.
- 0.120"x 1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH TRUSS PLY. SEE DWG. 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.

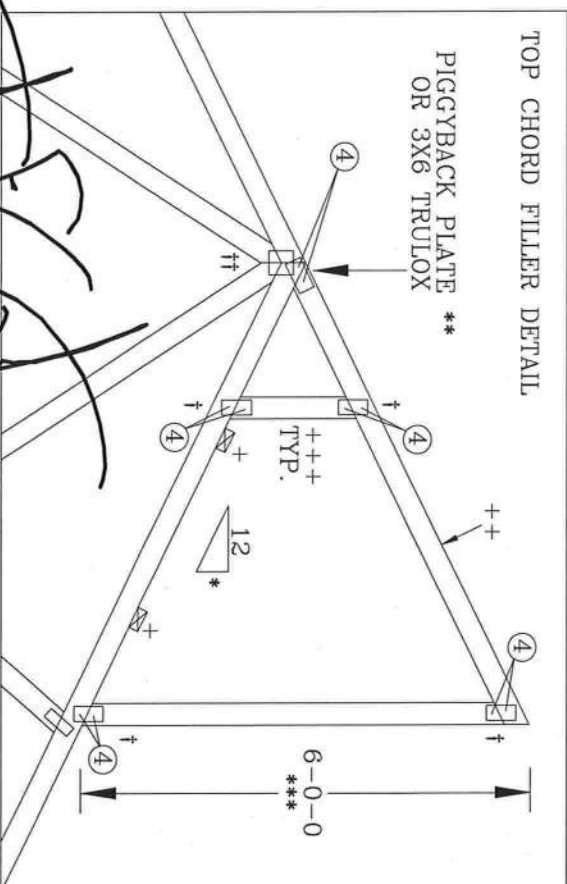
EXTENDED TOP CHORD FILLER DETAIL



OFFSET FILLER DETAIL



TOP CHORD FILLER DETAIL



THIS DRAWING REPLACES DRAWING 884,080

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA, 22304) AND WTC (WOOD TRUSS COUNCIL OF AMERICA, 4000 WOODBURN AVENUE, SUITE 100, WOODBURN, NJ, 07095) FOR TRUSS CONSTRUCTION AND BRACING FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUTS, LATERAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION) AND AIAA-2 (AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS). ALPINE ENGINEERED PRODUCTS, INC. 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.



TC LL	MAX 30 PSF	REF TC-FILLER
TC DL	MAX 15 PSF	DATE 11/1/06
TC DL	MAX 10 PSF	DRWG TC/FILLER1106
OT. LL	0 PSF	-ENG SJP/KAR
OT. LD.	MAX 55 PSF	
DUR. FAC.	1.15 OR 1.33	
SPACING	24.0"	

BOTTOM CHORD FILLER DETAIL.

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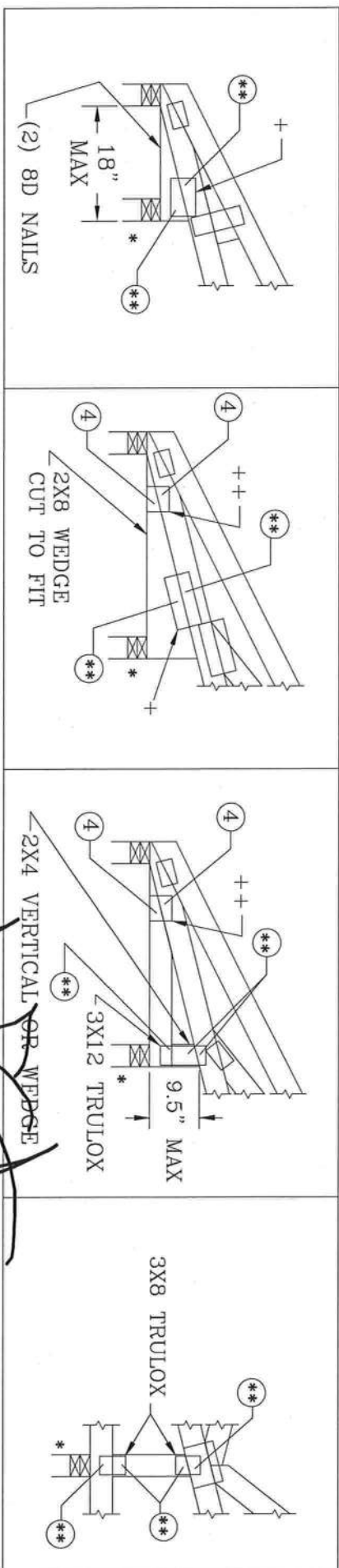
+ 3X4 WAVE OR 4X8 TRULOX
++ 2X4 WAVE OR 3X6 TRULOX

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REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS
DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT
SHOWN.

ALL TRULOX PLATES SHOWN ARE MINIMUMS. LARGER PLATES MAY BE REQUIRED TO ACCOMMODATE REQUIRED NAILS (**)

FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES				
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7	6
SPRUCE-PINE-FIR	2231#	1192#	1.5" X 3.5"	10	9	8	8	6
SOUTHERN PINE DENSE	3465#	1791#	1.5" X 3.5"	12	11	10	9	8
SOUTHERN PINE	2966#	1492#	1.5" X 3.5"	10	9	8	8	7
SOUTHERN PINE NON-DENSE	2520#	1343#	1.5" X 3.5"	9	8	7	7	6



~~THIS~~ DRAWING REPLACES DRAWINGS A115 A115/R & 884,132

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DATE 11/1/06

DRWG BCFILLER1106

-ENG DLJ/KAR

DOI: 10.1002/for

SPACING 24.0"

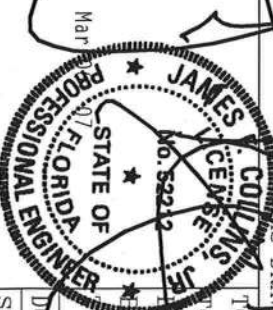


ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI CROSS LAMINATE ANGLE, 2108 HENDERSON ST., SUITE 312, WILSONVILLE, OR 97150, FOR THE LATEST TRUSS SAFETY INFORMATION. BRACING SHALL BE PERFORMED IN ACCORDANCE WITH THE TPI CROSS LAMINATE ANGLE TRUSS BRACING MANUAL. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

PRODUCT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF THE TRUSSES IN DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD CONSTRUCTION), 2015 EDITION, AND THE TPI CROSS LAMINATE ANGLE TRUSS BRACING MANUAL, 40-60 (4x6/55) GVL, STEEL, APPLY PLATES TO EACH FACE OF TRUSSES, UNLESS OTHERWISE GRANTED IN WRITING BY TPI CROSS LAMINATE ANGLE.

NOTES THIS DESIGN, POSITION PER DRAWINGS 1604-2, ANY INSPECTION OF PLATES FOLLOWED BY CUT SHALL BE PER ANNEK 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.



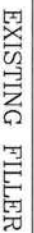
RECOMMENDED REPAIR PROCEDURE

MAXIMUM BOTTOM CHORD LOAD IS 10 PSF.

- + BOTTOM CHORD FILLER TO BE REMOVED. SEE NOTE #3.

++ FIELD APPLIED FILLER.

- REFER TO ENGINEER'S SEALED DESIGN
REFERENCING THIS DETAIL FOR ALLOWABLE
FILLER DIMENSIONS, PLACEMENT, AND WEBBING.



FIELD ~~APPLIED~~ FILTER MUST BE SPF #3

THIS DRAWING REPLACES DRAWING 962,767



**ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA**

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI, CROSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22304, AND VICTA CLOUD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, WADSWORTH, VA 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.

PRODUCTS FURNISH A COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC.) BY AIA/CA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (AL/55/20) ASTM A653 GRADE 40/60 (AL/55/53) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS. UNLESS OTHERWISE SPECIFIED, LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY DISCREPANCY, DESIGNER AND ENGINEER SHALL BE RESPONSIBLE. THE TRUSS COMPONENT DESIGN SHOWS THE SUFFICIENCY OF THE DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DESIGN OF THE BUILDING DESIGNER, PER ANSI/TPI SEC. 2.



REF	BC FILLER REP.
DATE	11/1/06
DRWG	REPBCFILL106
-ENG	MLH/KAR

UNIVERSAL

ENGINEERING SCIENCES

**Consultants In: Geotechnical Engineering •
Environmental Sciences • Construction Materials Testing**

4475 S.W. 35th Terrace • Gainesville, Florida 32608 • (352) 372-3392

REPORT ON IN-PLACE DENSITY TESTS

CLIENT: Wendy Williams

PROJECT: Lot #59 Hwy 5104

AREA TESTED: Full 4 1003 10129 090777

COURSE: 716 DEPTH OF TEST: 0" - 1

TYPE OF TEST: 2922 DATE TESTED: 4-3-67

NOTE: The below tests DO/DO NOT meet the minimum 95 % compaction requirements of maximum density.

REMARKS: _____ 25108

[illegible]TECH. 10

COLUMBIA COUNTY, FLORIDA OFFICE OF THE CLERK OF THE COUNTY

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 24-4S-16-03117-159

Building permit No. 000025708

Use Classification SFD, UTILITY

Fire: 32.10

Permit Holder WADE WILLIS

Waste: 83.75

Owner of Building WADE WILLIS

Total: 115.85

Location: 683 SW CHESTERFIELD CIRCLE

Date: 05/16/2008

Tammy Ricker

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

Notice of Prevention for Subterranean Termites

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



A locally owned
company serving
you since 1972

PEST CONTROL, INC.

17856 U.S. 129 • McALPIN, FLORIDA 32062

(386) 362-3887 • 1-800-771-3887 • Fax: (386) 364-3529

#25708

WADE WILLIS

683 S. CHESTERFIELD CIR. LAKE CITY, FL

Address of Treatment or Lot/Block of Treatment

4-13-07

Date

1:21

Time

PREVAIL

Product Used

Cypermethrin

Chemical used (active ingredient)

Nick Kirby

Applicator

264

Number of gallons applied

25%

Percent Concentration

1768

Area treated (square feet)

225LF

Linear feet treated

HORIZONTAL/VERTICAL

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.

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#25708

LOT # 39

683 S. CHESTERFIELD CIR. LAKE CITY, FL

Address of Treatment or Lot/Block of Treatment

7/30/07

Date

10:30

Time

PREVAIL

Product Used

Cypermethrin

Chemical used (active ingredient)

Kenn Kirby

Applicator

89.2-01

Number of gallons applied

25%

Percent Concentration

172

Area treated (square feet)

104

Linear feet treated

HORIZONTAL/VERTICAL/ADJOINING SLAB

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.