

DATE09/12/2007

Columbia County Building Permit

PERMIT000026224

This Permit Expires One Year From the Date of Issue

APPLICANTLINDA RODER

PHONE752-2281

ADDRESS387SW KEMP COURT

LAKE CITYFL32024

OWNERSAM & KATHLEEN STORMANT

PHONE965-8505

ADDRESS2344SW CYPRESS LAKE TERR

LAKE CITYFL32024

CONTRACTORBLAKE LUNDE

PHONE754-5810

LOCATION OF PROPERTY90W, TL ON 247S, TL ON CYPRESS LAKE RD, 2ND LOT PAST

HORSE WAY ON LEFT

TYPE DEVELOPMENTSFD,UTILITY

ESTIMATED COST OF CONSTRUCTION60000.00

HEATED FLOOR AREA1200.00

TOTAL AREA2328.00

HEIGHT

STORIES1

FOUNDATIONCONC

WALLSFRAMED

ROOF PITCH5/12

FLOORSLAB

LAND USE & ZONINGA-3

MAX. HEIGHT16

Minimum Set Back Requirments:

STREET-FRONT30.00

REAR25.00

SIDE25.00

NO. EX.D.U.0

FLOOD ZONEX

DEVELOPMENT PERMIT NO.

PARCEL ID35-4S-15-00407-102

SUBDIVISIONCYPRESS LAKE HILLS

LOT2

BLOCK

PHASE

UNIT

TOTAL ACRES2.07

000001450

CBC1253408

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

WAIVER

07-721

BK

JH

Y

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash6255

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power

Foundation

Monolithic

date/app. by

date/app. by

date/app. by

Under slab rough-in plumbing

Slab

Sheathing/Nailing

date/app. by

date/app. by

date/app. by

Framing

Rough-in plumbing above slab and below wood floor

date/app. by

date/app. by

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

date/app. by

date/app. by

date/app. by

Permanent power

C.O. Final

Culvert

date/app. by

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

Pool

date/app. by

date/app. by

Reconnection

Pump pole

Utility Pole

date/app. by

date/app. by

date/app. by

M/H Pole

Travel Trailer

Re-roof

date/app. by

date/app. by

date/app. by

BUILDING PERMIT FEE \$300.00

CERTIFICATION FEE \$11.64

SURCHARGE FEE \$11.64

MISC. FEES \$0.00

ZONING CERT. FEE \$50.00

FIRE FEE \$0.00

WASTE FEE \$

FLOOD DEVELOPMENT FEE \$

FLOOD ZONE FEE \$25.00

CULVERT FEE \$

TOTAL FEE398.28

INSPECTORS OFFICE

CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Storman
Blake

6255

6256 #50

Columbia County Building Permit Application

For Office Use Only Application # 6708-78 Date Received 8/31/07 By LH Permit # 1450/26224
Application Approved by - Zoning Official BLK Date 06.09.07 Plans Examiner OK JTH Date 9-6-07
Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
Comments SITE PLAN ON PLANS

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

Name Authorized Person Signing Permit Linda or Melanie Voder Phone 752-2281

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Sam and Kathleen Storman Phone 965-8505

911 Address 2344 SW Cypress Lake Terrace Lake City FL 32024

Contractors Name Blake Lund Phone 754-5810

Address 272 SW Jaguar Dr. Lake City FL 32025

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address NA

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

Property ID Number 35-45-15-00407-102 Estimated Cost of Construction 167,280

Subdivision Name Cypress Lake Hills Lot 2 Block Unit Phase

Driving Directions 90 W to CR 247 South to SW Cypress Lake Rd, go west approx 2 miles, 2nd lot past SW Horse Way on L - See Blake Sign

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 2.07 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 233' Side 16 D. 83' Side 60' Rear 56'-8"

Total Building Height 16'-8" Number of Stories 1 Heated Floor Area 1200 Roof Pitch 5-12

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

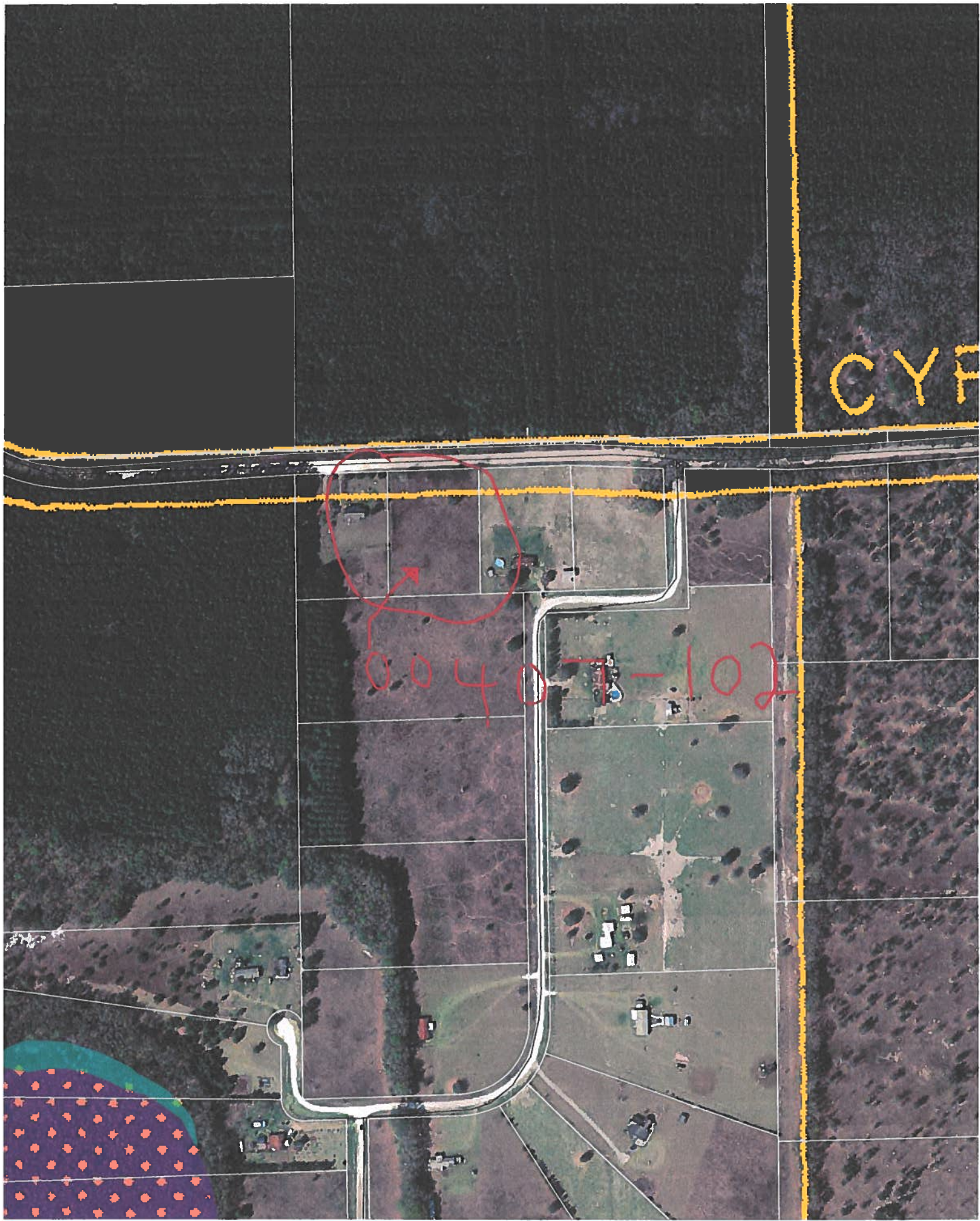
STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 13th day of Aug 2007.

Personally known L or Produced Identification

Contractor Signature
Contractors License Number 1233408
Competency Date Mar 24, 2009
NOTARY STATE SEAL
Notary Signature Nora L. Terry
(Revised Sept. 2006)

LH Called me 9-1-07



CYF

00407-102

Notice of Authorization

I, Blake N. Lunde, II, hereby authorize Linda Roder or Melanie Roder to be my Representative and act on my behalf in all aspects for applying for a Building Permit to be located in Columbia County.

[Signature]
Contractor's Signature

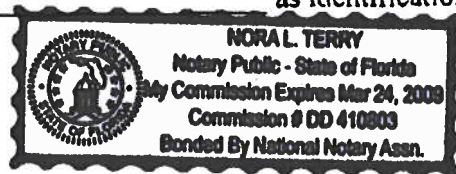
8/13/07
Date

Sworn to and Subscribed before me this 13th day of August, 2007
by Blake N. Lunde, II, who

☒ is Personally Known or

_____ has produced _____ as identification.

Nora L. Terry
Notary Public



Notary Stamp

This instrument prepared by:
Abstract & Title Services, Inc.
283 NW Cole Terrace
Lake City, FL 32055

Inst: 200712015311 Date: 7/20/2007 Time: 2:23 PM
Doc Stamp - Deed: 338.00
DC, P. DeWitt Casson, Columbia County Page 1 of 1

PERSONAL REPRESENTATIVE'S DEED

THIS WARRANTY DEED, Made the 20th day of July, 2007, by **BRENDA PERVIS, PERSONAL REPRESENTATIVE OF THE ESTATE OF EVELYN S. BISHOP, A/K/A EVELYN BISHOP, DECEASED**, first party, hereinafter called the grantors, to **SAMUEL R. STORMANT, AND HIS WIFE, KATHLEEN I. STORMANT** party of the second part, whose address is: 203 SW Truffles Glen, Lake City, FL 32024, hereinafter called the grantee;

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

WITNESSETH: That the party of the first part, pursuant to Order Authorizing Sale in The Estate of Evelyn Bishop, filed in the Office of the Clerk of the Circuit Court of Columbia County, Florida, and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 2, of Cypress Lake Hills Subdivision, a subdivision as per the plat thereof filed at Plat Book 5, Page 82, of the Public Records of Columbia County, Florida

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

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

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2006.

IN WITNESS WHEREOF, the said grantors have signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Richard W. Copeland Brenda Pervis
Witness: Richard W. Copeland Brenda Pervis, Personal Representative
Mary Reeder
Witness: Mary Reeder

STATE OF FLORIDA

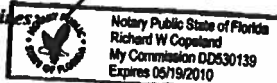
COUNTY OF Seminole

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared **BRENDA PERVIS, PERSONAL REPRESENTATIVE OF THE ESTATE OF EVELYN S. BISHOP, A/K/A EVELYN BISHOP**, to me known to be the person(s) who executed the foregoing instrument and he acknowledged before me that he executed the same.

WITNESSES my hand and official seal this 20th day of July, 2007.

Richard W. Copeland
NOTARY PUBLIC

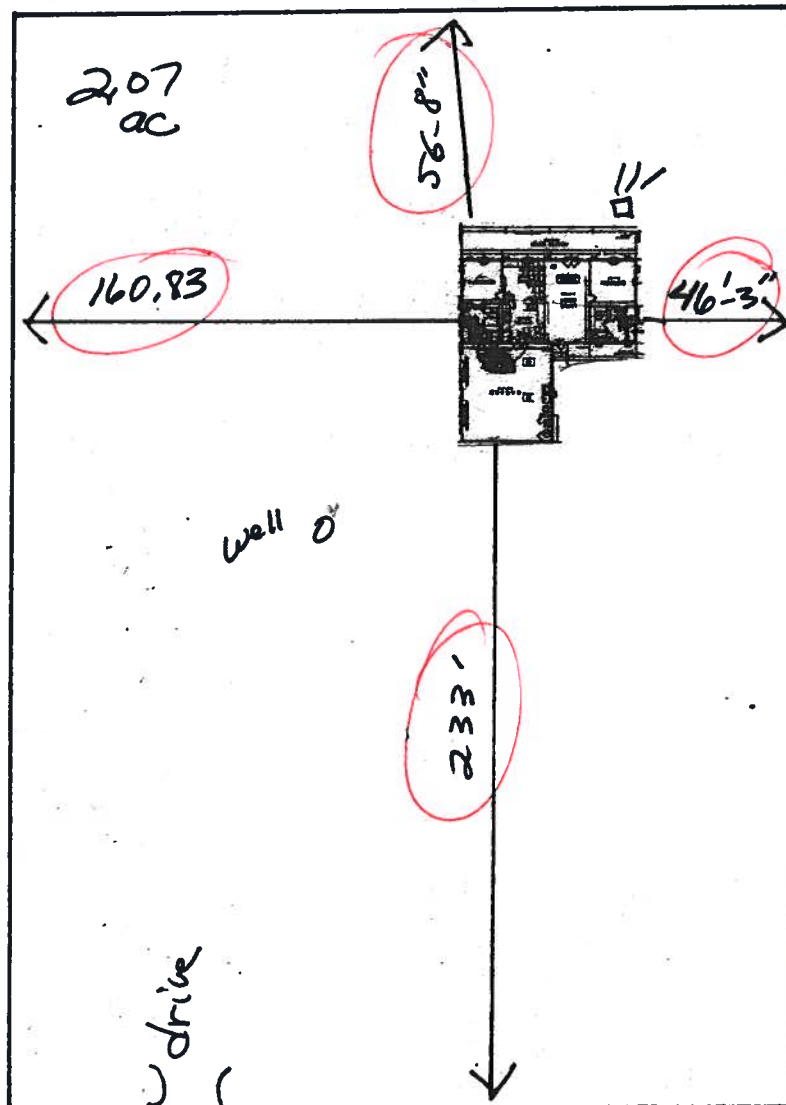
My Commission Expires
ATS #: 6623



(SEAL)

Lot 2 Cypress Lake Hills
35-45-15-00407-102

Sam + Kathy Stormant



Prepared by and
Return to:
Blake Construction Company
291 S.W. Sisters Welcome Road, Suite 102
Lake City, Florida 32055

TAX FOLIO NO.: 35-4S-15-00407-102

Inst: 200712019584 Date: 8/28/2007 Time: 4:01 PM
49 DC, P. DeWitt Cason, Columbia County Page 1 of 1

Notice of Commencement

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

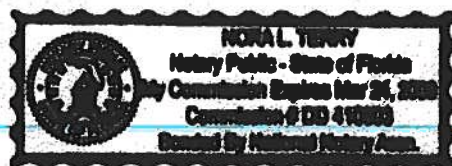
1. Description of property: Lot 2, Cypress Lake Hills Subdivision, Lake City, Columbia County, Florida 32024
2. General description of improvement: Construction of dwelling.
3. Owner information:
 - a. Name and address: Samuel and Kathleen Stormant, 203 SW Truffles Glen, Lake City, Florida 32024
 - b. Interest in property: Fee simple
 - c. Name and address of fee simple title holder (if other than Owner):
4. Contractor: BLAKE CONSTRUCTION COMPANY, 291 S.W. Sisters Welcome Road, Suite 102, Lake City, Florida 32025
5. Surety: N/A
 - a. Name and address: None
 - b. Amount of bond: N/A
6. Lender: N/A
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes: None
8. In addition to himself, Owner designates N/A, to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.
9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified):

Samuel Stormant
Samuel Stormant

Kathleen S. Stormant
Kathleen Stormant

The foregoing instrument was acknowledged before me this 27th day of August 2007, Samuel and Kathleen Stormant, who are personally known to me and who did not take an oath.

(SEAL)



Nora L. Turley
Notary Public

FROM :

FRK NO. : 386-755-7022

Sep. 17 2002 01:52 M P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (304) 792-1114
FAX (304) 795-7011
904 NW Main Blvd
LAKE CITY, LOUISIANA 70001

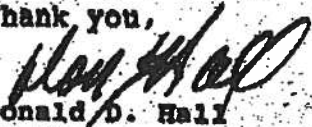
June 12, 2002

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:	708241BlakeConstructionStormant	Builder:	Blake Cons
Address:	Lot: 2, Sub: Cypress Lake H., Plat:	Permitting Office:	Columbia
City, State:	Lake City, FL	Permit Number:	26224
Owner:	Stormant	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: 26.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1200 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: 26.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default)	127.0 ft²		HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	127.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 148.0(p) ft	a. Electric Resistance	Cap: 1.0 gallons
b. N/A			EF: 0.94
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 809.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 148.0 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, 1200.0 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, 140.0 ft		
b. N/A			

Glass/Floor Area: 0.11

Total as-built points: 15543

Total base points: 18011

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: 8/24/07

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

OWNER/AGENT: [Signature]

DATE: 8-30-07

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC Overhang Ornt Len Hgt Area X SPM X SOF = Points							
.18	1200.0	20.04	4328.6	Double, Clear	N	3.0	4.0	9.0	19.20	0.76	130.7
				Double, Clear	N	3.0	6.0	20.0	19.20	0.83	319.2
				Double, Clear	E	3.0	4.0	6.0	42.06	0.59	149.7
				Double, Clear	E	3.0	5.0	12.0	42.06	0.66	335.4
				Double, Clear	S	11.0	5.0	48.0	35.87	0.45	767.7
				Double, Clear	S	11.0	7.0	20.0	35.87	0.47	336.1
				Double, Clear	W	3.0	5.0	12.0	38.52	0.67	310.2
				As-Built Total:							
WALL TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Adjacent	148.0	0.70	103.6	Frame, Wood, Exterior			13.0	809.0	1.50	1213.5	
Exterior	809.0	1.70	1375.3	Frame, Wood, Adjacent			13.0	148.0	0.60	88.8	
Base Total:		957.0	1478.9	As-Built Total:				957.0	1302.3		
DOOR TYPES Area X BSPM = Points				Type Area X SPM = Points							
Adjacent	60.0	1.60	96.0	Exterior Insulated			20.0	4.10	82.0		
Exterior	40.0	4.10	164.0	Adjacent Insulated			60.0	1.60	96.0		
				Exterior Insulated			20.0	4.10	82.0		
Base Total:		100.0	260.0	As-Built Total:				100.0	260.0		
CEILING TYPES Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points							
Under Attic	1200.0	1.73	2076.0	Under Attic			30.0	1200.0	1.73 X 1.00	2076.0	
Base Total:		1200.0	2076.0	As-Built Total:				1200.0	2076.0		
FLOOR TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Slab	148.0(p)	-37.0	-5476.0	Slab-On-Grade Edge Insulation			0.0	148.0(p)	-41.20	-6097.6	
Raised	0.0	0.00	0.0								
Base Total:			-5476.0	As-Built Total:				148.0	-6097.6		
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
		1200.0	10.21	12252.0				1200.0	10.21	12252.0	

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

ADDRESS: Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 14919.5				Summer As-Built Points: 12141.7						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
14919.5	0.4266		6364.7	(sys 1: Central Unit 26000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 12142 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 3626.6 12141.7 1.00 1.138 0.263 1.000 3626.6						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, 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 = Point				
.18	1200.0	12.74	2751.8	Double, Clear	N	3.0	4.0	9.0	24.58	1.01	224.5
				Double, Clear	N	3.0	6.0	20.0	24.58	1.01	496.1
				Double, Clear	E	3.0	4.0	6.0	18.79	1.21	136.6
				Double, Clear	E	3.0	5.0	12.0	18.79	1.16	261.0
				Double, Clear	S	11.0	5.0	48.0	13.30	3.55	2264.1
				Double, Clear	S	11.0	7.0	20.0	13.30	3.33	885.4
				Double, Clear	W	3.0	5.0	12.0	20.73	1.11	275.2
				As-Built Total:				127.0			
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM	=	Points		
Adjacent	148.0	3.60	532.8	Frame, Wood, Exterior	13.0		809.0	3.40	2750.6		
Exterior	809.0	3.70	2993.3	Frame, Wood, Adjacent	13.0		148.0	3.30	488.4		
Base Total:		957.0	3526.1	As-Built Total:		957.0		3239.0			
DOOR TYPES Area X BWPM = Points				Type			Area X WPM	=	Points		
Adjacent	60.0	8.00	480.0	Exterior Insulated			20.0	8.40	168.0		
Exterior	40.0	8.40	336.0	Adjacent Insulated			60.0	8.00	480.0		
				Exterior Insulated			20.0	8.40	168.0		
Base Total:		100.0	816.0	As-Built Total:		100.0		816.0			
CEILING TYPESArea X BWPM = Points				Type	R-Value		Area X WPM X WCM	=	Points		
Under Attic	1200.0	2.05	2460.0	Under Attic	30.0		1200.0 2.05 X 1.00	2460.0			
Base Total:		1200.0	2460.0	As-Built Total:		1200.0		2460.0			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM	=	Points		
Slab	148.0(p)	8.9	1317.2	Slab-On-Grade Edge Insulation	0.0		148.0(p)	18.80	2782.4		
Raised	0.0	0.00	0.0								
Base Total:		1317.2	As-Built Total:	148.0		2782.4					
INFILTRATION Area X BWPM = Points						Area X WPM		=	Points		
1200.0		-0.59	-708.0			1200.0		-0.59	-708.0		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
Winter Base Points: 10163.1				Winter As-Built Points: 13132.2					
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
10163.1		0.6274	6376.4	(sys 1: Electric Heat Pump 26000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0 13132.2 1.000 (1.069 x 1.169 x 0.93) 0.443 1.000 6758.9	1.00	1.162	0.443	1.000	6758.9

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit = Total Multiplier
2		2635.00		5270.0	1.0	0.94	2		1.00	2578.94
					As-Built Total:					5157.9

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points
6365		6376		5270		18011	3627		6759
							5158		15543

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.8

The higher the score, the more efficient the home.

Stormant, Lot: 2, Sub: Cypress Lake H., Plat: , Lake City, FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 26.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 13.00
4. Number of Bedrooms	2	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	1200 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: 26.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 127.0 ft ²	___		HSPF: 7.70
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 127.0 ft ²	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 148.0(p) ft	___	a. Electric Resistance	Cap: 1.0 gallons
b. N/A		___		EF: 0.94
c. N/A		___	b. N/A	___
9. Wall types		___	c. Conservation credits	___
a. Frame, Wood, Exterior	R=13.0, 809.0 ft ²	___	(HR-Heat recovery, Solar	___
b. Frame, Wood, Adjacent	R=13.0, 148.0 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, 1200.0 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, 140.0 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.*

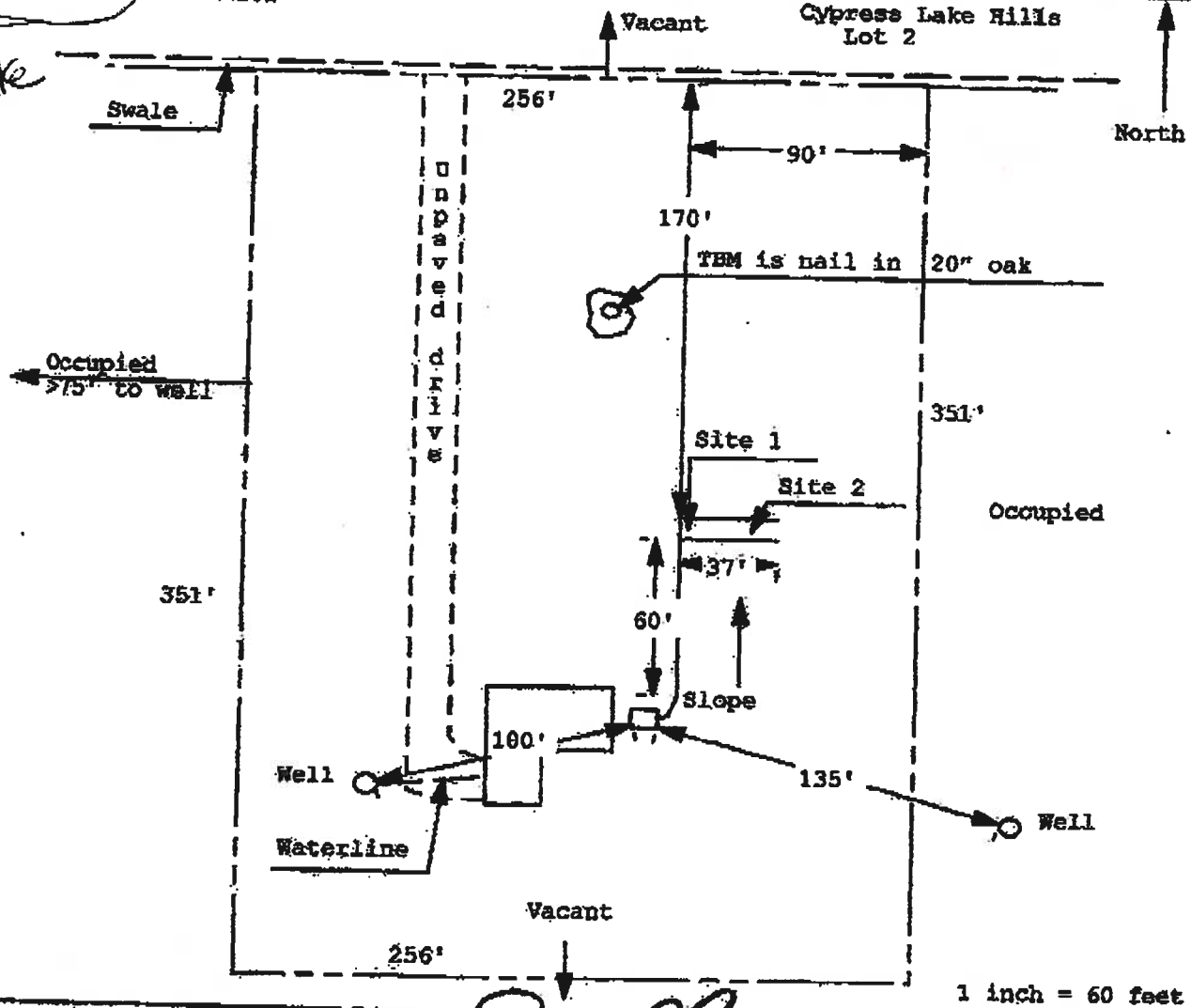
0708-78

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 07-0721

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

STORMWATER/LR 07-4101

Blake



1 inch = 60 feet

Site Plan Submitted By *Paul L. [Signature]* Date 9/14/07
Plan Approved ☒ Not Approved ☐ Date 9/11/07
By *Mark S. Lander* Columbia CPHU

Notes: _____

12614

Notice of Treatment

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

Address: 536 SE BAYA

City: L.C. **Phone:** 386-757-1703

Site Location: Subdivision _____

Lot # 2 **Block#** _____ **Permit #** 26220

Address _____

Product used

Active Ingredient

% Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Back patio

384

20

Driveway apron

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

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

Date

Time

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©

Notice of Treatment 12742

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

Address: 536 SE BAYA AVE

City LAKE CITY Phone 752 1703

Site Location: Subdivision BLAKE CREST

Lot # 2 Block# Permit # 26224

Address CYPRESS LAKE HILLS S/D

<u>Product used</u>	<u>Active Ingredient</u>	<u>% Concentration</u>
---------------------	--------------------------	------------------------

☒ Premise	Imidacloprid	0.1%
---	--------------	------

☐ Termidor	Fipronil	0.12%
-----------------------------------	----------	-------

☐ Bora Care	Disodium Octaborate Tetrahydrate	23.0%
------------------------------------	----------------------------------	-------

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

<u>Dwelling</u>	<u>2328</u>	<u>296</u>	<u>200 gal</u>
<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>
<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>

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

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

10/8/07

Date

10:25

Time

F299

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



Interstate Supply, Inc.

376 S.W. MAIN BLVD.
P.O. BOX 2139
Lake City, Florida 32056-2139
Phone Number: 386-752-8210
Fax number: 386-752-8213

#26224

Send to Randy	From: Glenn
Attention	Date
Phone Number:	Phone Number: 386-752-8210
Fax Number 758 2/60	Fax Number 386-752-8213

- ☐ Urgent
- ☐ Reply ASAP
- ☐ Please comment
- ☒ Please Review
- ☐ For your Information

Total pages, including cover: 2

Comments:

The trims are also
stamped "For Lamp location" on
the label of the Trim.

Thanks
Glenn

3" IC/Non-IC Housing

L13 & L3



Intended Use

Recessed housing rated IC or Non-IC for new construction applications. Approved for direct burial in insulation (IC) and through-branch circuit wiring. Approved for most wiring and ceiling types.

Features

One-piece aluminum can. Compact thermal plastic shroud on L13 for higher wattages in IC installations. Galvanized steel rod frame and J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips. Snap-lock rail clip locks fixture into place.

J-box has built-in Romex clamps and a ground wire.

Suitable for ceilings up to 2" thick.

Socket clips to trim to ensure proper and consistent lamp position.

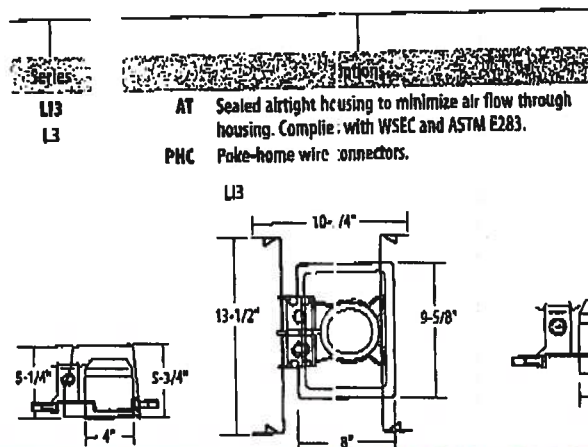
UL Listed to U.S. and Canadian safety standards.

INTERSTATE SUPPLY, INC
P.O. Box 2139
376 S.W. Main Blvd.
Lake City, FL 32056

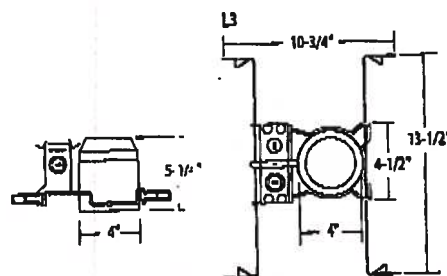
IC/Non-IC Housing: L13 & L3 is listed for wet locations; L13 types and maximum wattages are listed in the table.

Shallow Baffle		Deep Suspension		Shallow Baffle	
301 White	302 White	302A Clear diffuse	302AZ Clear specular	3E1 Black	3E1 White
301A Clear diffuse	302A Clear diffuse	302AZ Clear specular	302G Gold diffuse		
301A2 Clear specular	302G Gold diffuse	302GZ Gold specular	302BLZ Black specular		
301G Gold specular					
301BLZ Black specular					
IC (L13)	IC (L13)	IC (L13)	Non-IC (L3)	IC (L13)	IC (L13)
30 R20	50 R20	40 A19	50 PAR20	30 R20	50 R20
35 PAR20	50 PAR20	40 PAR16	60 PAR16	35 PAR20	50 PAR20
	40 PAR16	30 R20			40 PAR16
		35 PAR20			
Wallwash		Wallwash		Eyeball	
382 Black	3W1 White	3W1 White		3E1 White	
382W White					
IC (L13)	Non-IC (L3)	IC (L13)	Non-IC (L3)	IC (L13)	IC (L13)
40 PAR16	50 R20	30 R20	50 PAR20	35 PAR20	75 R20
30 R20	50 PAR20	35 PAR20	40 PAR16	40 PAR16	50 PAR20
35 PAR20				75 PAR16	
Wet/Niche		Wet/Niche		Wet/Niche	
3S1 White	3H20 White	3H20PC Polished Chrome ¹	3H20CP Polished Copper ¹		
IC (L13, L3)	Non-IC (L3)	IC (L13)	IC (L3)		
35 R20	50 R20	75 PAR30	75 PAR30		
35 PAR20	30 PAR20				
	40 PAR16				

Ordering Information



Example: L3

lightquick^{XL}
Express delivery product.

See page 11 for details about LightQuick XL.

Description

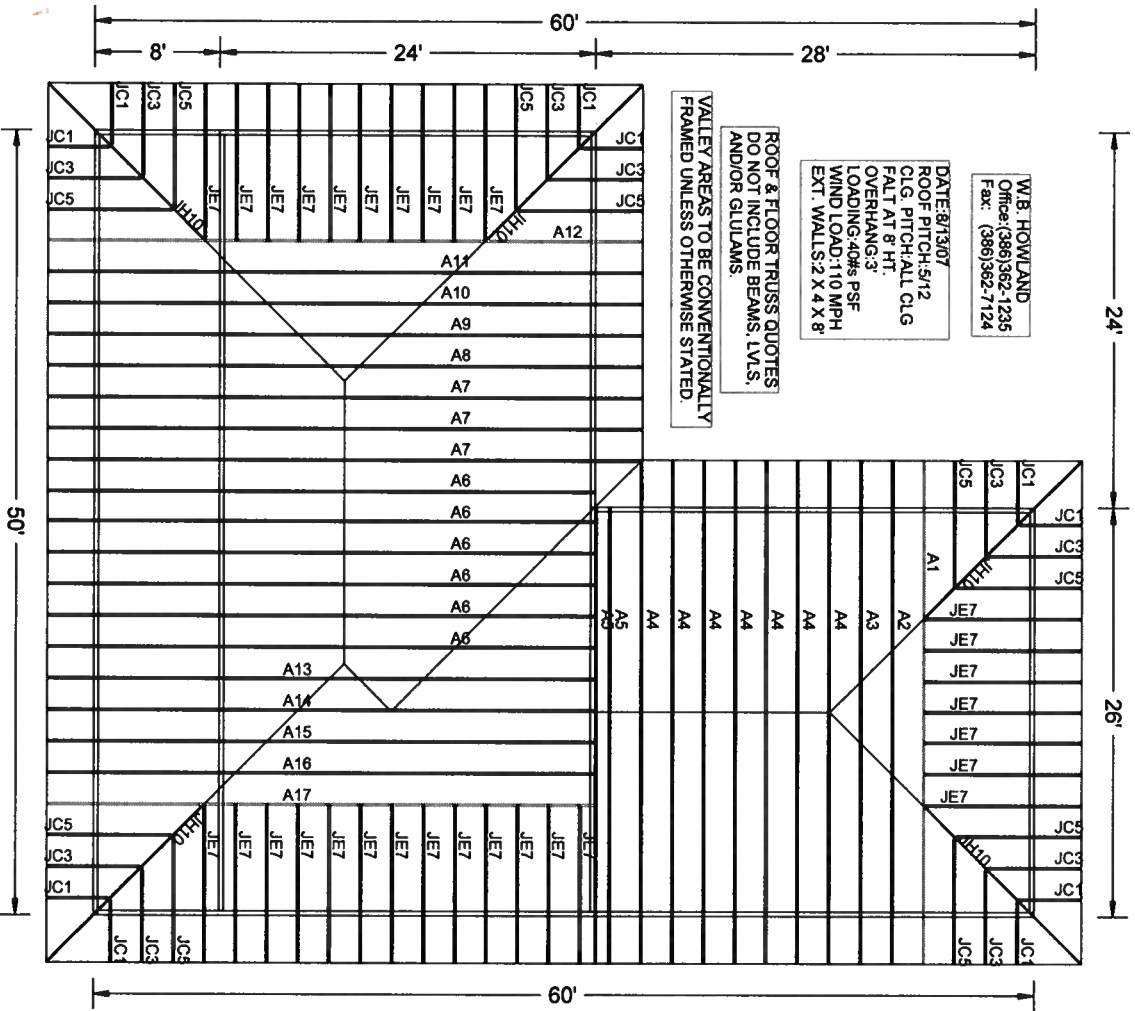
L3 M6
3E1 M12
3E1 M6
3H20

NOTES:

1 Flange matches ulm finish.

IMPORTANT: For packaging information, see page 322. See spec complete trim selection.

Drawings are for dimensions only and may not represent configuration. Dimensions are in inches.



W.B. HOWLAND
Office: (386) 362-1235
Fax: (386) 362-7124

DATE: 9/13/07
ROOF PITCH: 5/12
CLG. PITCH: ALL CLG
FALT AT 8' HT.
OVERHANG: 3'
LOADING: 40#s PSF
WIND LOAD: 110 MPH
EXT. WALLS: 2 X 4 X 8'

ROOF & FLOOR TRUSS QUOTES
DO NOT INCLUDE BEAMS, LVLS,
AND/OR GLULAMS.
VALLEY AREAS TO BE CONVENTIONALLY
FRAMED UNLESS OTHERWISE STATED.

ALL CLG HTS ARE FLAT AT 8'.

IMPORTANT DESIGN NOTE:

(1) ADDITIONAL SPACE OF MORE
THAN 1' 10 1/2" REQUIRED FOR
SKYLIGHTS, TRUSS DEPT. MUST BE
NOTIFIED PRIOR TO FABRICATION.

Roof Plane Sheathing Area = 3276 sq. ft.
Gable Sheathing Area = 0 sq. ft.
Total Sheathing Area = 3276 sq. ft.
Fascia Material = 244 linear ft.
Valley Flashing Material = 24 linear ft.
Ridge Cap Material = 46 linear ft.
Hip Ridge Material = 136 linear ft.
Total Material Cost: \$ 0.00
Total Labor Cost: \$ 0.00

Job Name: STORMANT RESIDENCE
Customer: BLAKE CONSTRUCTION
Designer: Lynn Bell

JOB NO:
4840

PAGE NO:
1 OF 1

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: 1TA3215-Z0422073601

Truss Fabricator: W.B. Howland
Job Identification: 4840-/STORMANT RESIDENCE /BLAKE CONSTRUCTION -- , **
Truss Count: 22
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.36.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
the seal date per section 61G15-31.003(5a) of the FAC
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: BRCLBSUB-CN8RGBLK-

Seal Date: 08/22/2007

-Truss Design Engineer-
James F. Collins Jr.

Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	31715--A1		07234001	08/22/07
2	31716--A2		07234002	08/22/07
3	31717--A3		07234003	08/22/07
4	31718--A4		07234004	08/22/07
5	31719--A5		07234005	08/22/07
6	31720--A6		07234006	08/22/07
7	31721--A7		07234007	08/22/07
8	31722--A8		07234008	08/22/07
9	31723--A9		07234009	08/22/07
10	31724--A10		07234010	08/22/07
11	31725--A11		07234011	08/22/07
12	31726--A12		07234012	08/22/07
13	31727--A13		07234013	08/22/07
14	31728--A14		07234014	08/22/07
15	31729--A15		07234015	08/22/07
16	31730--A16		07234016	08/22/07
17	31731--A17		07234017	08/22/07
18	31732--JC1		07234018	08/22/07
19	31733--JC3		07234019	08/22/07
20	31734--JC5		07234020	08/22/07
21	31735--JE7		07234021	08/22/07
22	31736--JH10		07234022	08/22/07

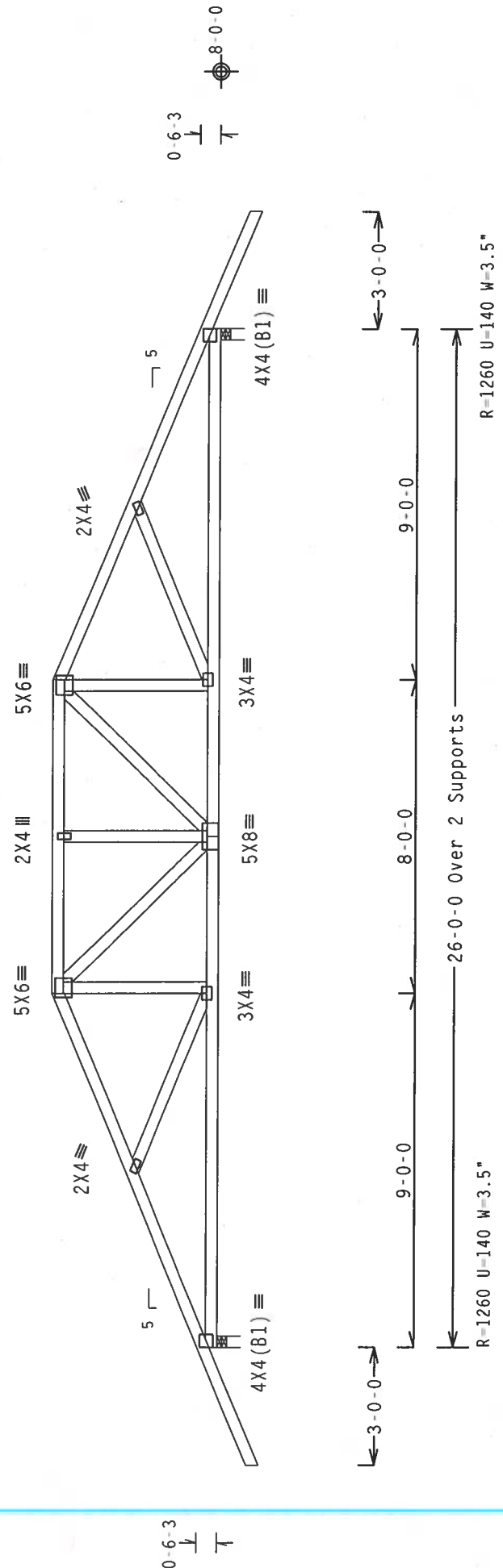


Top chord	2x4	SP #2	N
Bot chord	2x4	SP #2	N
Webbs	2x4	SP #2	N

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

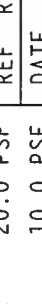
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 4-3-3. Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.



Design Crit: TPI-2002(STD)/FBC

Scale = .25"/Ft.



ALPINE

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE MANUFACTURER, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WTC (WOOD 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. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE 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 AEP&A) AND TPI. ITW BCG DESIGNER PLATES ARE MADE OF 20/18/16GA (H-H/SS/K) ASTM A653 GRADE 40/60 (W. K/H-SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THE 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.



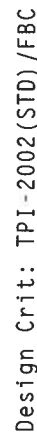
Aug 28

REF	R215 --	31716	TC LL	20.0	PSF
DATE	08/22/07		TC DL	10.0	PSF
DRW	HCUSR215	07234002	BC DL	10.0	PSF
	HC-ENG EC/WHK		BC LL	0.0	PSF
	SEQN-	65411	TOT.LD.	40.0	PSF
	FROM	LRB	DUR.FAC.	1.25	
	JREF-	17A3215_Z04	SPACING	24.0"	

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

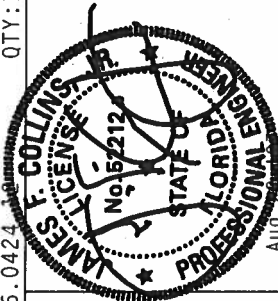
Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 5-1-3.



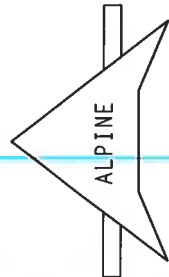
QTY: 1 FL / - / 5 / - / - / R / - Scale = 25" / Ft.

TC LL	20.0	PSF	REF	R215--	31717
TC DL	10.0	PSF	DATE	08/22/07	
BC DL	10.0	PSF	DRW	HCUSR215	07234003
BC LL	0.0	PSF	HC-ENG	EC/WHK	
TOT.LD.	40.0	PSF	SEQN-	65409	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1TA3215_Z04	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL WORK MUST BE DONE ACCORDING TO THE INFORMATION PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 680 NORTH LEE STREET, SUITE 312, WESTGROVE, MA 02090-1700). IF YOU ARE NOT SURE OF THESE FUNCTIONS, CONSULT AN ENGINEER. OTHERWISE, INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID BRACING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAIL FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR ANY DETAILING OR BRACING OMISSIONS. ALL TRUSSES:
DESIGNED AND DRAWN BY: JAMES W. HARRIS, JR., P.E., CDR., U.S.N.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MATERIAL SPECIFICATIONS: ASTM A992 AND TP1. ITW BCG
CONNECTION PLATES ARE MADE OF 20/18/16GA. Q & S/S/KY/ALG. NATM A563 GRADE 50C. Q & S/S/SAV. STEEL. 17K-2
PLATES TO EACH FACE OF TRUSS AND OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2
ANY INSPECTION OF PLATES FOLLOWED BY (1). SHALL BE PER ANNEX A.3 OF TP1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSII/TP1 1 SEC. 2.



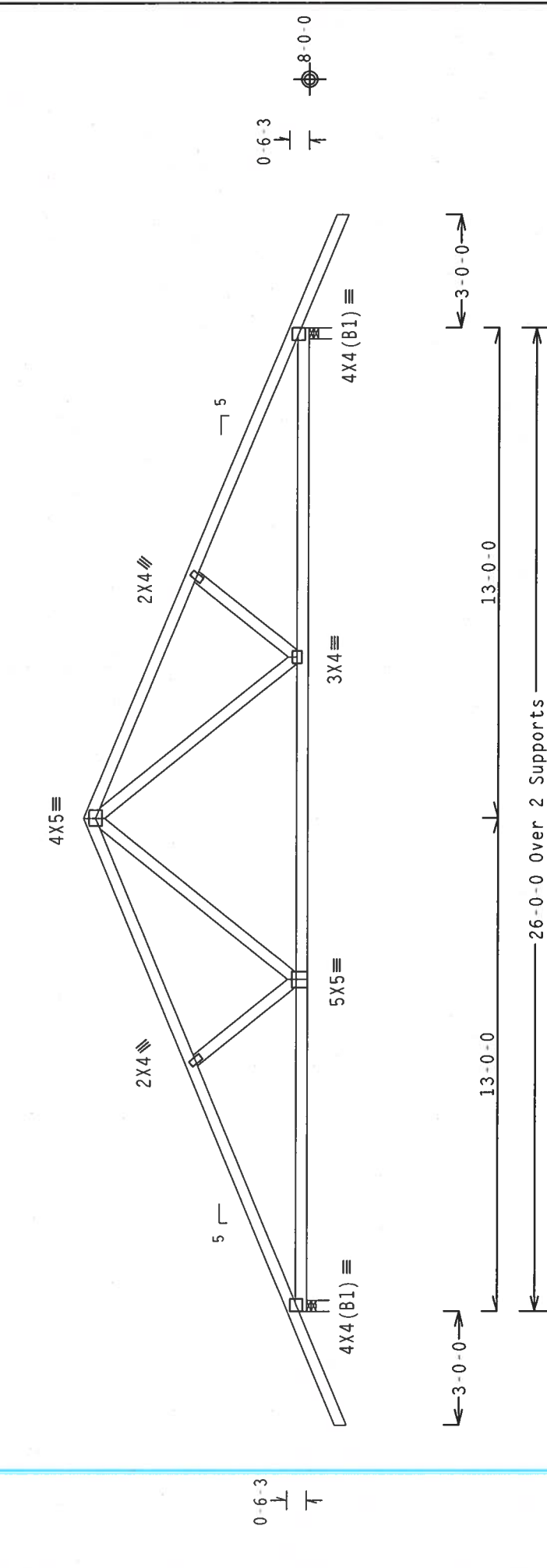
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, wind Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 5-11-3.

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



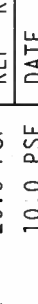
R=1260 U=137 W=3.5"

26-0-0 Over 2 Supports

R=1260 U=137 W=3.5"

Design Crit: TPI-2002(STD)/FBC

Scale = .25"/Ft.



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

ITW BCG

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCG1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTC (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.

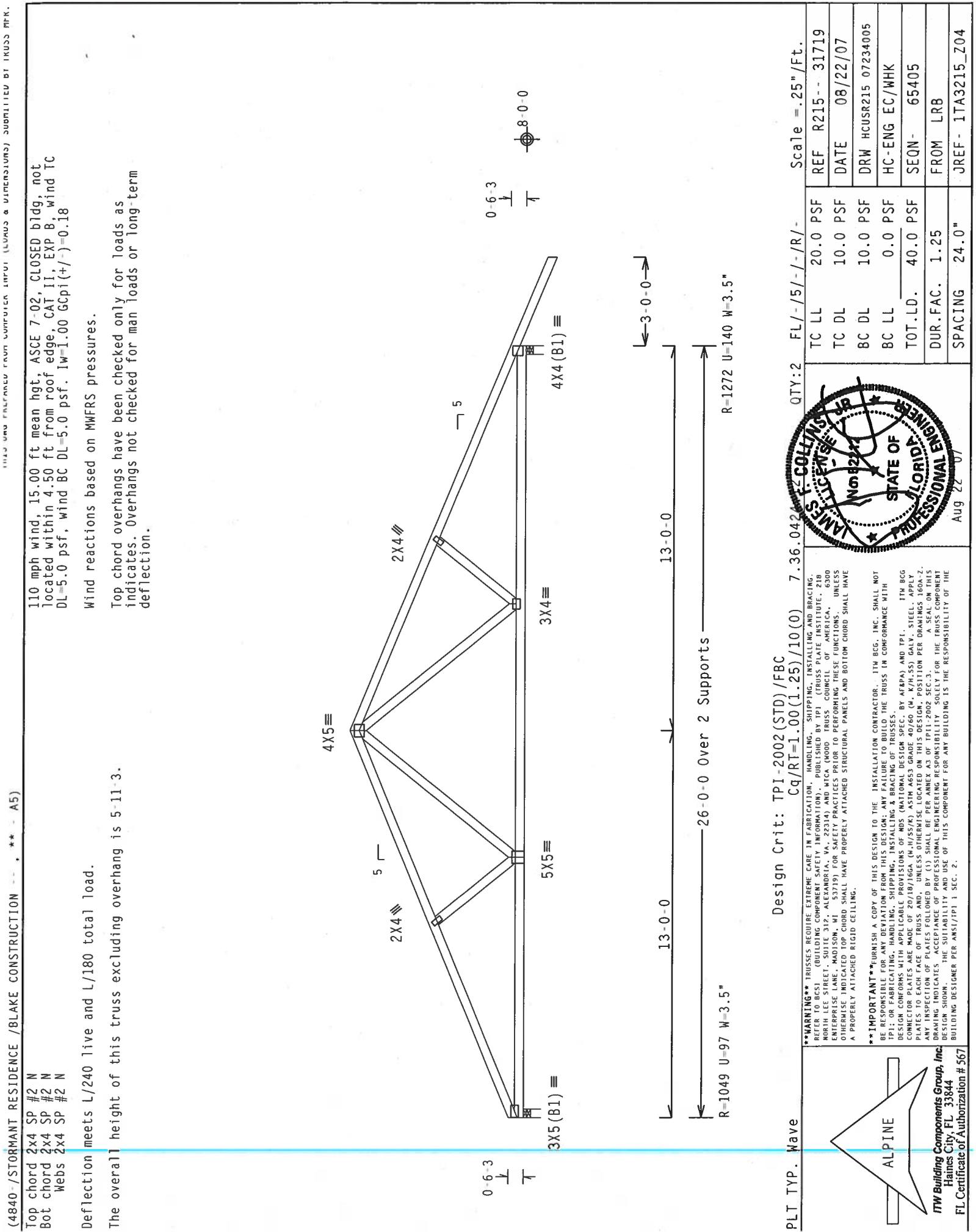
IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W-/S/S/K) ASTM A653 GRADE 40/60 (M, K/H-S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Aug 22 '07

REF R215--	31718	TC LL	20.0 PSF
DATE	08/22/07	TC DL	10.0 PSF
DRW HCUSR215	07234004	BC DL	10.0 PSF
HC-ENG EC/WHK		BC LL	0.0 PSF
SEQN-	65407	TOT.LD.	40.0 PSF
FROM	LRB	DUR. FAC.	1.25
JREF-	ITA3215_Z04	SPACING	24.0"



(4840 - STORMANT RESIDENCE / BLAKE CONSTRUCTION - ** - A5)		PLT TYP. Wave		Design Crit: TPI-2002 (STD) / FBC		QTY: 2		FL / - / 5 / - / - / R / -		Scale = .25" / Ft.	
Top chord 2x4 SP #2 N		TC LL		20.0 PSF		REF		R215 - - 31719			
Bot chord 2x4 SP #2 N		TC DL		10.0 PSF		DATE		08/22/07			
Webs 2x4 SP #2 N		BC DL		10.0 PSF		DRW		HCUSR215 07234005			
Deflection meets L/240 live and L/180 total load.		BC LL		0.0 PSF		HC-ENG		EC/WHK			
The overall height of this truss excluding overhang is 5'-11" 3/4.		TOT.LD.		40.0 PSF		SEQN -		65405			
		DUR.FAC.		1.25		FROM		LRB			
		SPACING		24.0"		JREF -		1TA3215_Z04			

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 GCpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

Design Crit: TPI-2002 (STD) / FBC

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

Scale = .25" / Ft.

PLT TYP. Wave

QTY: 2

FL / - / 5 / - / - / R / -

REF R215 - - 31719

DATE 08/22/07

DRW HCUSR215 07234005

HC-ENG EC/WHK

SEQN - 65405

FROM LRB

JREF - 1TA3215_Z04

Aug 22 07

STATE OF FLORIDA

PROFESSIONAL ENGINEER

JAMES S. COLLINGS JR.

License No. 12422

11W Building Components Group, Inc.

Haines City, FL 33844

FL Certificate of Authorization # 567

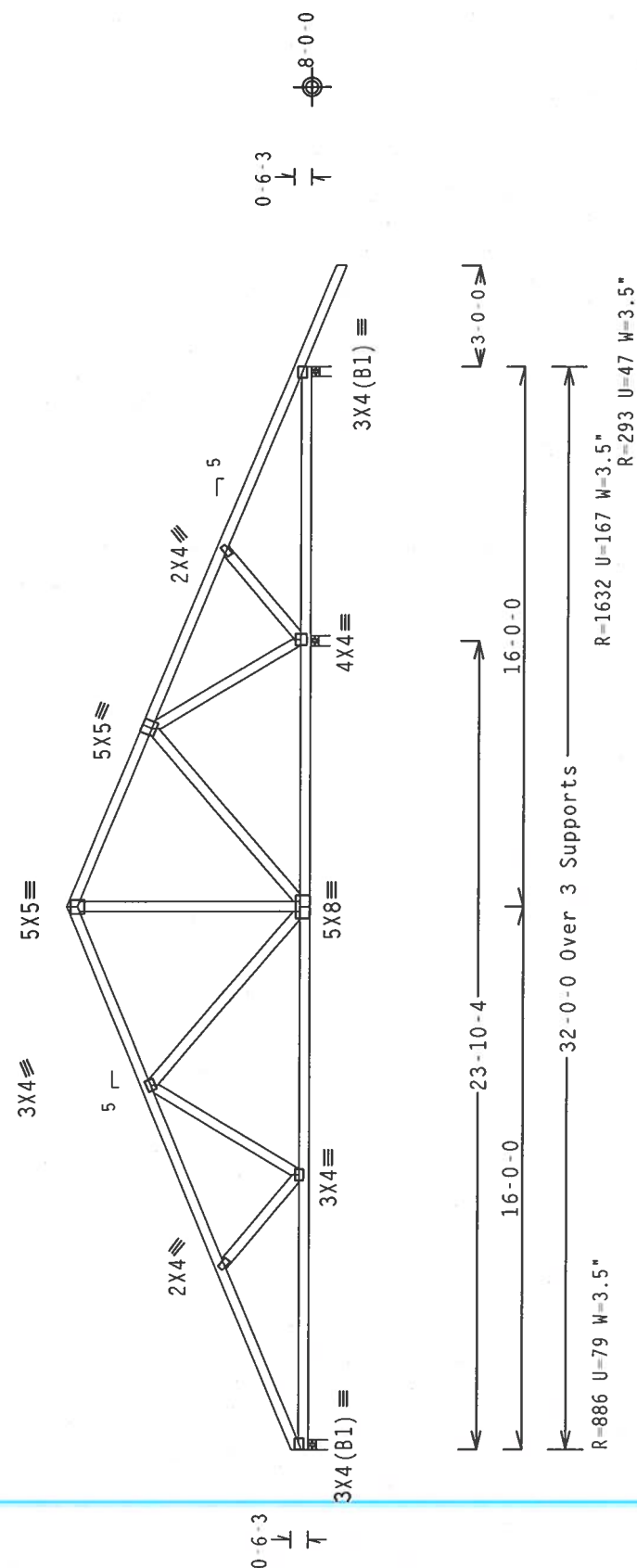
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load.

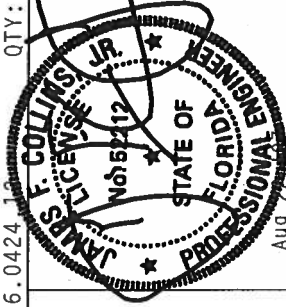
Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 7-2-3.



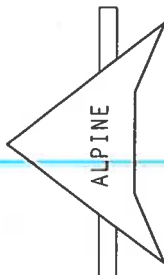
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	QTY: 6	FL/-/5/-/-/R/-	Scale = .1875"/Ft.
REF R215--	31720	TC LL	20.0 PSF
DATE	08/22/07	TC DL	10.0 PSF
DRW	HCUSR215 07234006	BC DL	10.0 PSF
HC-ENG	EC/WHK	BC LL	0.0 PSF
SEON-	65428	TOT.LD.	40.0 PSF
FROM	LRB	DUR.FAC.	1.25
JREF-	1TA3215_Z04	SPACING	24.0"



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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 AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/1/55/7K) ASTM A653 GRADE 40/60 (M, K/M/55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY THE INSTALLATION CONTRACTOR. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE SEAL ON THIS DESIGN INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 7.

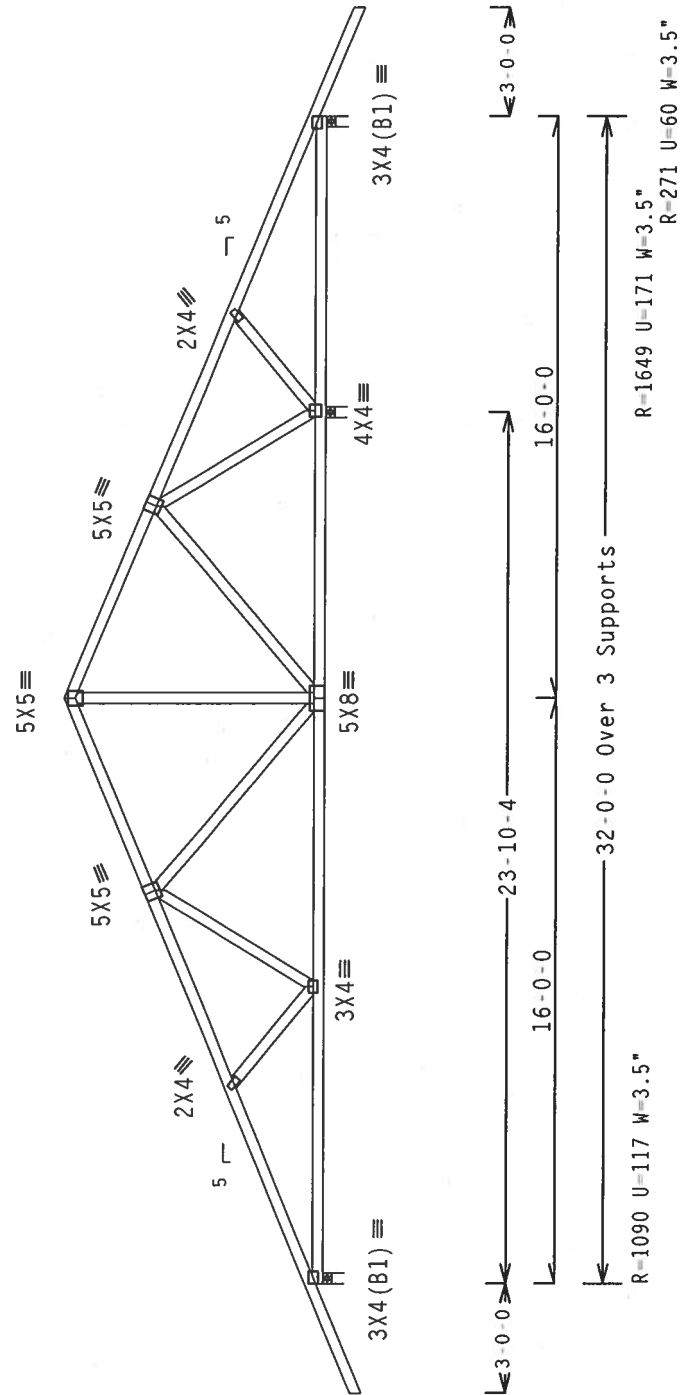


ITW Building Components Group, Inc
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	Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N	
	webs	2x4	SP	#2	N	

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 7-2-3.

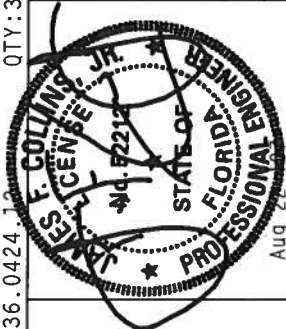


Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FOR ANY VIOLATION OF ANY APPLICABLE PROVISIONS OF ANY NATIONAL DESIGN SPEC. BY AEP/AI AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2010/16GA U/L255K/AL UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.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.



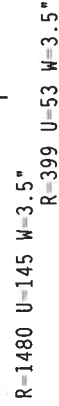
TC LL	20.0	PSF	REF R215-- 31721
TC DL	10.0	PSF	DATE 08/22/07
BC DL	10.0	PSF	DRW HCURSR215 07234007
BC LL	0.0	PSF	HC-ENG EC/WHK
TOT.LD.	40.0	PSF	SEQN- 65430
DUR.FAC.	1.25		FROM LRB
SPACING	24.0"		JREF- 1TA3215_Z04

Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

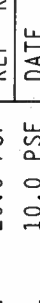
Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 6'-9-3/4".

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



PLT TYP.	Wave	QTY:1	FL/-5/-1/-R/	Scale = .1875"/Ft.
DESIGN CIRC.	1.00 (1.25) /10 (0)	7.36.0424	18	
	Cq/RT=			



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

FL Certificate of Authorization # 567

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

Aug 22, 2007



TC LL	20.0	PSF	REF R215 - - 31722
TC DL	10.0	PSF	DATE 08/22/07
BC DL	10.0	PSF	DRW HCUSR215 07234008
BC LL	0.0	PSF	HC-ENG EC/WHK
TOT.L.D.	40.0	PSF	SEQN - 65432
DUR.FAC.	1.25		FROM LRB
SPACING	24.0"		JREF - 1TA3215_Z04

Top chord	2x4	SP	#2 N
Bot chord	2x4	SP	#2 N
Web	2x4	SP	#2 N

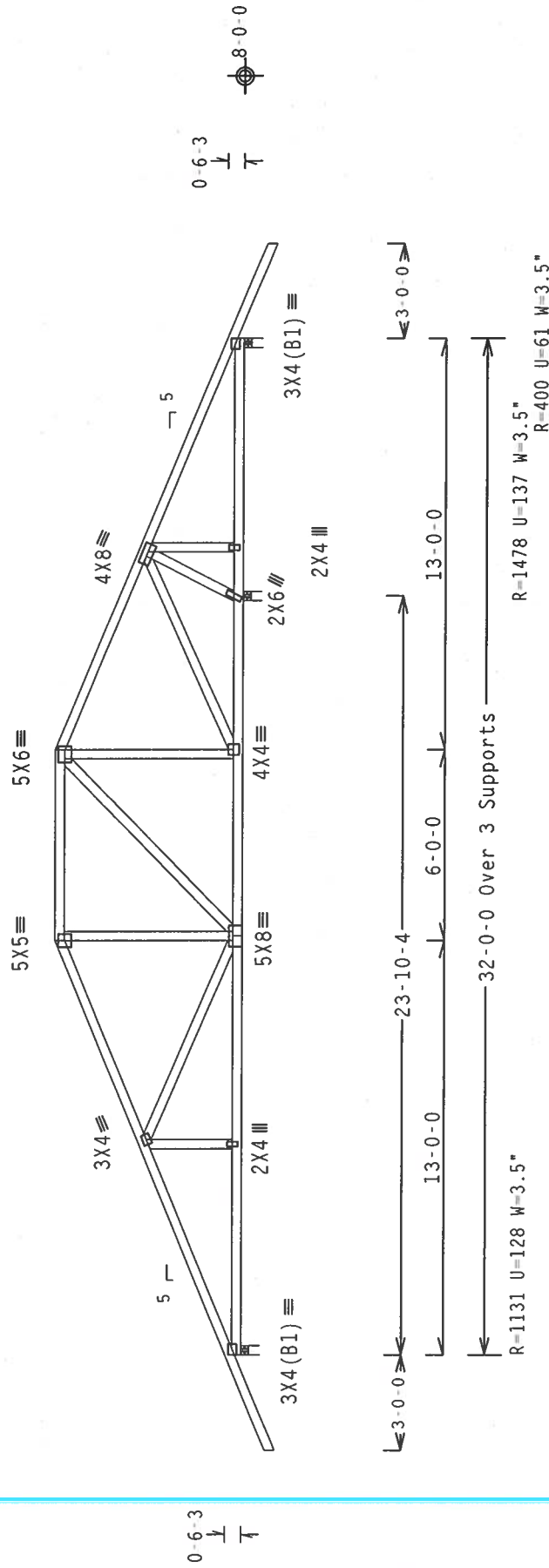
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf Iw=1.00 GCpi(+/-)0.18

Deflection meets L/240 live and L/180 total load.

Wind reactions based on MWFRS pressures.

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

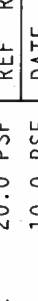
The overall height of this truss excluding overhang is 5-11-3.



Design Crit: TPI-2002(STD)/FBC

QTY:1 FL/-/5/-/-/R/-
Scale = 1875" / Ft.

PLT TYP. Wave



ALPINE

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

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. (INCLUDING COMPONENT SAFETY INFORMATION). PUBLISHED BY (TP) (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, WADSWORTH, MA 02155) AND (AFCA) (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, WADSWORTH, MA 02157) FOR SAFETY REASONS. 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 DETAIL FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH (TP) OR FABRICATING IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIES) AND TPI. 1TH BCG CONTRACTOR PLATES ARE MADE OF 20/18/16GA (W/25SS) ASTM A653 GRADE 40/60 (W/ X/1/55) GALV. STEEL. APPL. 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 ANNOT A3 OF TPI1 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



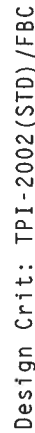
James F. Collins, Jr.
Professional Engineer
State of Florida
No. 52232

REF	R215 --	31723	TC LL	20.0	PSF
DATE	08/22/07		TC DL	10.0	PSF
DRW	HCUSR215	07234009	BC DL	10.0	PSF
	HC-ENG EC/WHK		BC LL	0.0	PSF
	SEQN -	65434	TOT. LD.	40.0	PSF
	FROM	LRB	DUR. FAC.	1.25	
	JREF -	1TA3215_Z04	SPACING	24.0"	

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

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 4-3-3.



QTY:1 FL/5/-/-/R/- Scale = 1.875"/Ft.

11/17/2017

Scale = .1073 / ft.
REF R215-- 31725

L
C
C

C
C
T

C
H
C

DATE 08/22/07

DRW HCUSR215 07234011

HC-ENG EC/WHK

SEQN- 65438

FROM IRB

REF - 1TA3215 704

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

Top chord 2x4 SP SS :T2 2x6 SP SS:
:T3 2x4 SP #2 Dense:
Bot chord 2x6 SP SS
Webs 2x4 SP #2 N

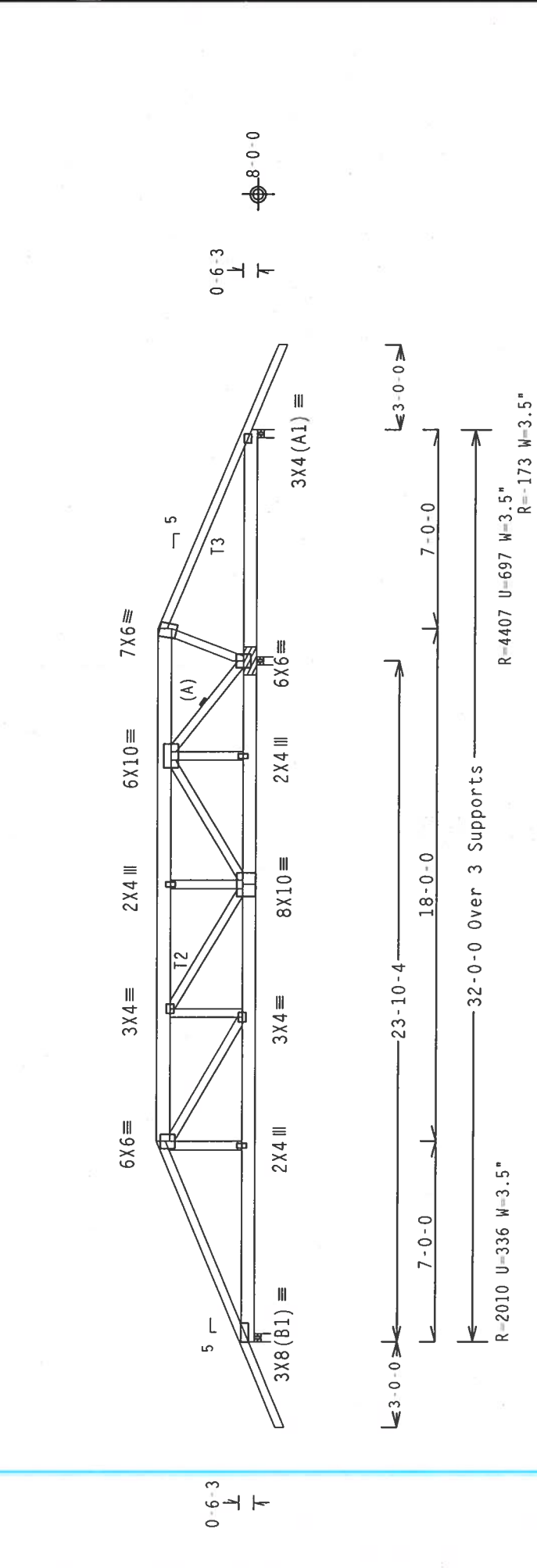
[illegible]

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

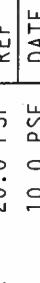
(c) Concurrent lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 3-5-3.

LOADING HAS BEEN CALCULATED BY THE TRUSS MANUFACTURER.
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO
VERIFY AND APPROVE THE LOADING.



PLT TYP. Wave



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

FL Certificate of Authorization # 5671

FL Certificate of Authorization # 5671

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

JAMES F. GULLING, JR. ★

FLORIDA PROFESSIONAL ENGINEER

STATE OF FLORIDA

License No. 12212

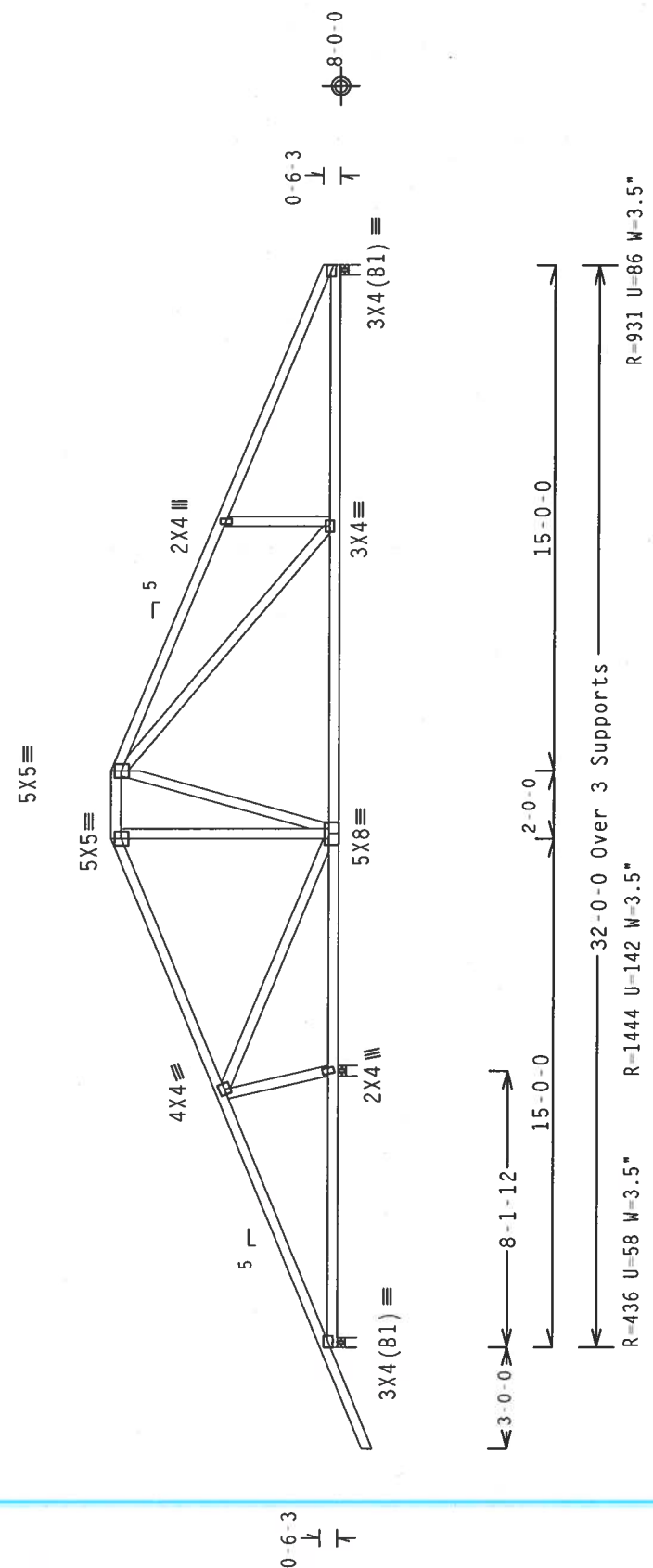
REF R215 -	31726	TC LL	20.0 PSF	
DATE	08/22/07	TC DL	10.0 PSF	
DRW HCUSR215	07234012	BC DL	10.0 PSF	
HC-ENG EC/WHK		BC LL	0.0 PSF	
SEQN -	65465	TOT. LD.	40.0 PSF	
FROM LRB		DUR. FAC.	1.25	
JREF - 1TA3215_Z04		SPACING	24.0"	

Aug 22 2007

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

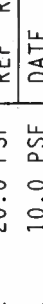
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 6-9-3.



Design Crit: TPI-2002(STD)/FBC

	PLT	TYP.	Wave
			QTY: 1
Design Crit:	Cq/RT=1.00(1.25)/10(0)	7.36.0424.12	FL/-5/-R/ Scale = .1875"/Ft. IPT-200Z(SID)/FBC



ALPINE

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

FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, EXETER, NH, 03241) 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.

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/SS/K) ASTM A563 GRADE 40/60 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Aug 22

TC LL	20.0	PSF	REF	R215 -	31727
TC DL	10.0	PSF	DATE	08/22/07	
BC DL	10.0	PSF	DRW	HCUSR215	07234013
BC LL	0.0	PSF	HC-ENG	EC/WHK	
TOT.LD.	40.0	PSF	SEQN -	65420	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF -	1TA3215_Z04	

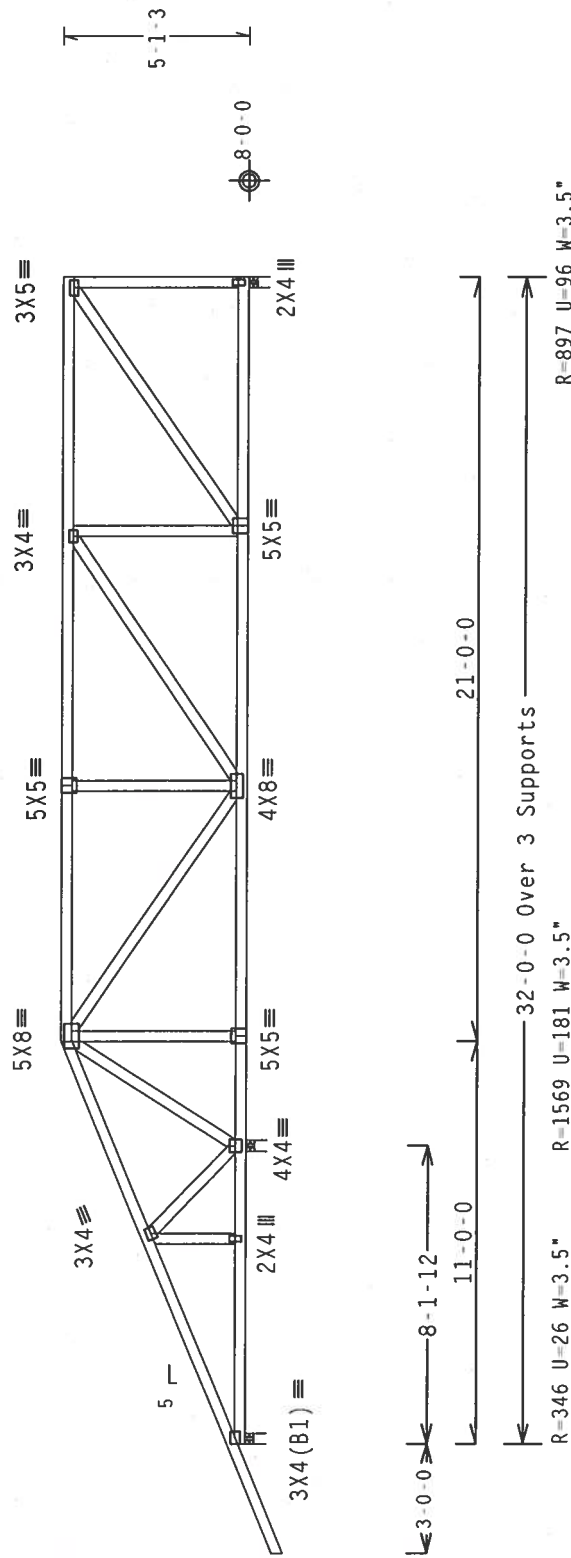
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 5'-1 3/4".

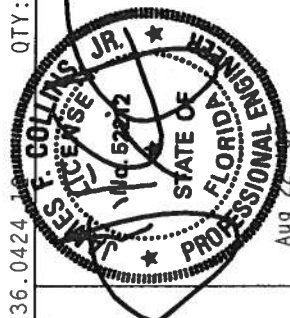


Design Crit: TPI-2002(STD)/FBC

QTY:1 FL/-/5/-/-/R/-
Scale = .1875"/Ft.

PLT TYP. Wave

TC LL	20.0	PSF	REF	R215--	31729
TC DL	10.0	PSF	DATE	08/22/07	
BC DL	10.0	PSF	DRW	HCUSR215	07234015
BC LL	0.0	PSF	HC-ENG	EC/WHK	
TOT.LD.	40.0	PSF	SEQN-	65424	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1TA3215_Z04	



*WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION AVAILABLE BY THE MANUFACTURER OF THE TRUSS. SEE THE FOLLOWING LIST OF TRUSS MANUFACTURERS FOR ADDITIONAL INFORMATION: NORTH LEE STEEL, SUITE 312, ALEXANDRIA, VA 22304 AND VICA, 4000 TRUSS, COUNCIL OF AMERICA, 2100 E. SPRING LANE, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, JOIST SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

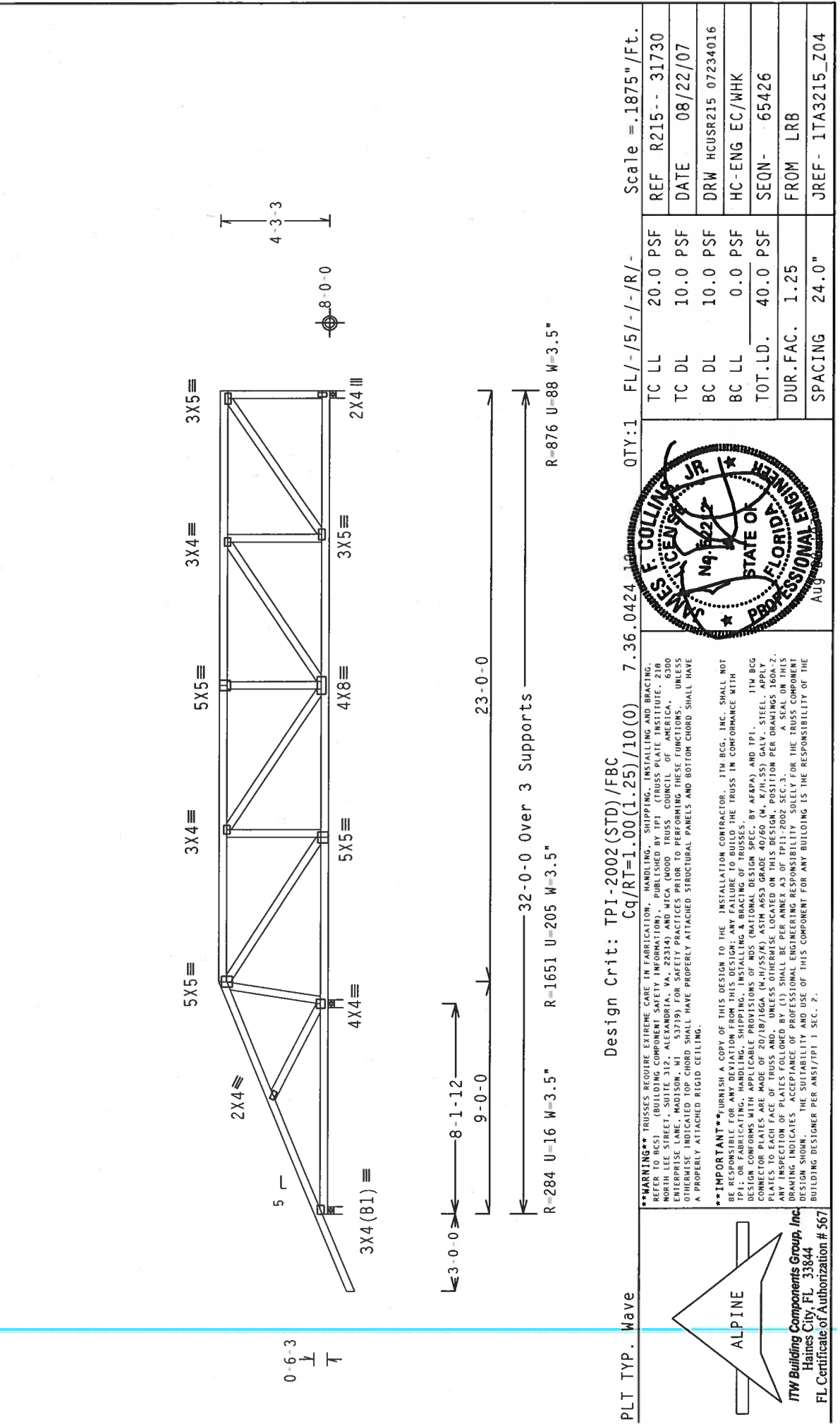
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

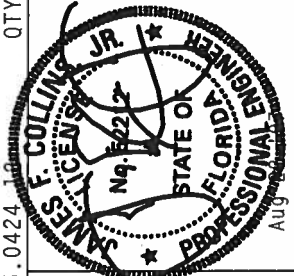
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

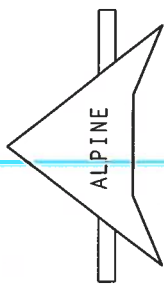
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 4-3-3.

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

Wind reactions based on MWFRS pressures.
Right end vertical not exposed to wind pressure.



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.36.0424 10	QTY: 1	FL/-/5/-/-/R/-	Scale = .1875"/Ft.
	REF R215-- 31730				
	DATE 08/22/07				
	DRW HCUSR215 07234016				
	HC-ENG EC/MHK				
	SEQN- 65426				
	FROM LRB				
JREF- 1TA3215_Z04					



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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICA (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. ITW BCG SHALL BE RESPONSIBLE FOR THE PROVISIONS OF THIS DESIGN. (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. STEEL APPLY CONNECTOR PLATES ARE MADE TO ORDER. (NATIONAL DESIGN SPEC. BY AERPA) AND TPI. STEEL APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN. A SEAL ON THIS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC. 3. A SEAL ON THIS. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x6 SP #2 N : T1 2x4 SP #2 Dense:

Bot	chord	2x6	SP	#2	N
	webs	2x4	SP	#2	N

Bearing blocks: Nail type: 10d Box or Gun (0.128"x3", min.) nails
X-BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 8.000' 1 12" 13 Rigid Surface
Bearing block to be same size and species as bottom chord.
Refer to drawing CNRGRBLK0207 for additional information.

1110 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. $I_w=1.00$ GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

LOADING HAS BEEN CALCULATED BY THE TRUSS MANUFACTURER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO VERIFY AND APPROVE THE LOADING.

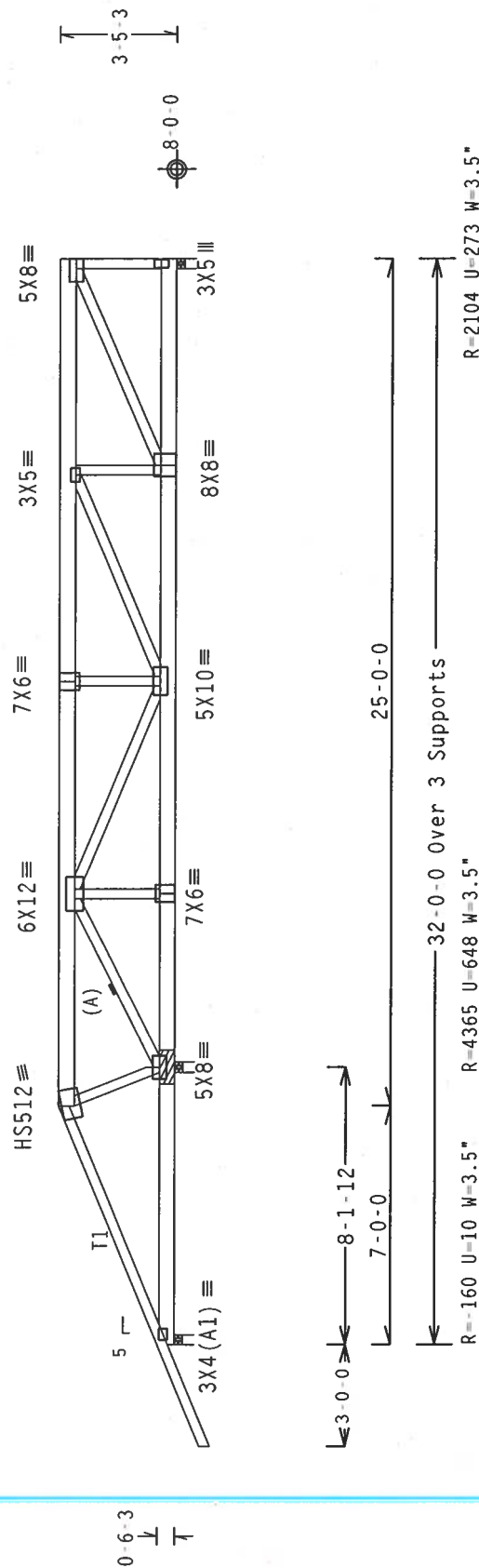
SPECIAL LOADS

		(LUMBER	DUR.FAC.=1.25	/	PLATE	DUR.FAC.=1.25)
TC	From	62 PLF at	-3.00 to		62 PLF at	7.00
TC	From	62 PLF at	-3.00 to		62 PLF at	32.00
BC	From	4 PLF at	-3.00 to		4 PLF at	0.00
BC	From	20 PLF at	0.00 to		20 PLF at	32.00
TC	170 LB Conc.	Load at	7.06,		9.06,	11.06, 13.06, 15.06
17.06,	19.06,	21.06,	23.06,	25.06,	27.06,	29.06, 31.06
BC	507 LB Conc.	Load at	7.00			
BC	65 LB Conc.	Load at	9.06,		11.06,	13.06, 15.06, 17.06
BC	21.06,	23.06	25.06,	27.06,	29.06,	31.06

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 3-5-3.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS, Wave

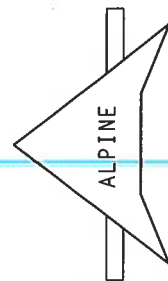
QTY:1 EL151-1-1R/-

Scale = .1875" / Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING INFORMATION FOR THE PROPER HANDLING OF THE TRUSSES. THE TRUSSES ARE NOT TO BE USED TO SUPPORT ANYTHING OTHER THAN THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304 AND VICA, 1000 TRUSS CONCOURSE, UNLESS OTHERWISE INDICATED. THE TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID BEAMING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN SPECIFICATION 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 TP1- OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF MOST NATIONAL DESIGN SPECIFICATIONS AND TP1. ITW BCG HAS CONDUCTED VISUAL INSPECTIONS OF MOST NATIONAL DESIGN SPECIFICATIONS AND TP1. GALVALUX STEEL APPLIES TO ALL PLATES TO EACH FACE OF TRUSS AND UNDERSTRESS LOCALIZATION PLATES PER ORDER PER ORDER. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING SUPERVISORY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1-1 SEC. 2.



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



SPACING 24.0"

REF- 1TA3215 Z04

JREF- 1TA3

SPACING 24.0"

Aug 22 1967

STABILITY OF THE

IF FOR ANY BUILDING IS THE RESPON

PI 1 SEC. 2.

DESIGN SHOWN. THE SUITABLE
BUILDING DESIGNER PER ANSI/T

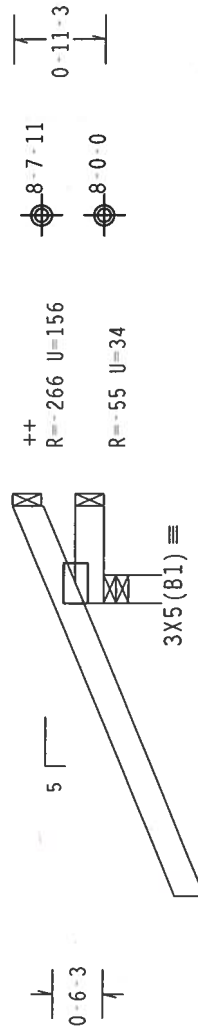
Haines City, FL 33844
FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

++ Negative reaction(s) of -265# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 15.00 ft mean hat, 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, lw=1.00 GCpi(+/-)=0.18

The overall height of this truss excluding overhang is 0-11-3.

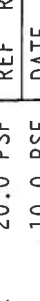


1-0-0 Over 3 Supports

R=601 U=169 W=3.5"

Design Crit: TPI-2002(STD)/FBC

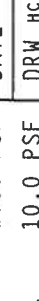
PLT TYP.	Wave	Cq/RT=1.00 (1.25)	7.36.0424.13	QTY:10	FL/-/5/-/-R/-	Scale = .5"/Ft.



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Haines City, FL 33844
FL Certificate of Authorization # 567

ITW WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ROOFER TO BESEAL BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH 101 STREET, SUITE 317, AUSTIN, TEXAS 78701) AND AIA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES 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 BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FOLLOWING INSTALLATION BRACING SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITW BEG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL BUILDING SPECIFICATIONS (NBS) AND TPI. ITW BEG CONNECTOR PLATES ARE MADE OF 2018/18GA (M 4/55/3/4) ASTM A653 GRADE 50 (M 4/55/3/4) GALV. STEEL. ALL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 16C12. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNOT 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.



Aug 22

TC LL	20.0	PSF	REF	R215 -	31732
TC DL	10.0	PSF	DATE	08/22/07	
BC DL	10.0	PSF	DRW	HCUSR215	07234018
BC LL	0.0	PSF	HC-ENG	EC/WHK	
TOT.LD.	40.0	PSF	SEQN-	65418	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1TA3215	Z04

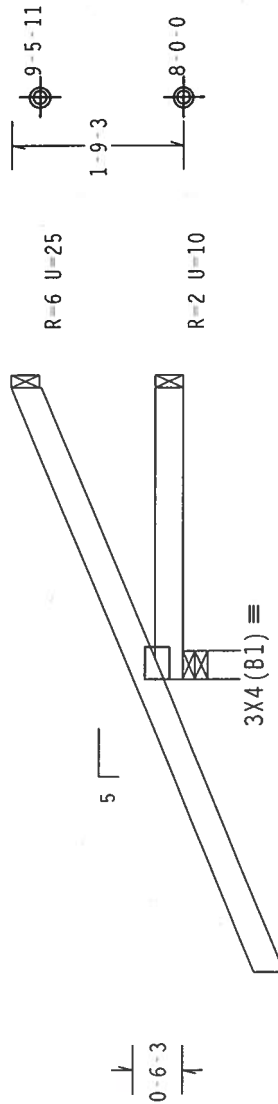
(4840) - /STORMANT RESIDE

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-9-3.

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



3-0-0

3-0 Over 3 Supports

R=435 I=79 W=25"

Design Crit: TPI-2002(STD)/FBC

QTY:10 FL/-/5/-/-/FL/-/

Scale = .5" / Ft.

 $Cq/RT=1.00(1.25)/10(0) \quad 7.36.0424.12$

PLT TYP. Wave

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO THE FOLLOWING DISCOUNT TRUSS COMPANY, 2100 WEST 10TH AVENUE, DENVER, COLORADO 80202, OR THE NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND VICA (WOOD TRUSS COMPANY), 1000 ENTERPRISE LANE, MADISON, MI 48071, ARE TO PERFORM 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. IFM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IPI-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

IFM BCG HAS CONDUCTED VISUAL CHECKS OF THE TRUSS AND FOUND NO PROBLEMS WITH THE TRUSS. THE TRUSS IS MADE OF STEEL PLATES TO EACH FACE OF THE TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2 THROUGH 160C-2. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN. THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING.

TC 11	20 0 PSE
-------	----------

ION, HANDLING, SHIPPING, INSTALLING AND BRACING.
PUBLISHED BY THE CONCRETE RESEARCH AND DEVELOPMENT BOARD

UNLESS PRIOR TO PERFORMING THESE FUNCTIONS. 6300 TRUSS COUNCIL OF AMERICA, 218 (WOOD TRUSS INSTITUTE, 218 PUBLISHED BY ITI).

<

ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE

 $\angle$

INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

ONLY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH BRACING OF TRUSSES.

ALPINE

ADDITIONAL DESIGN SPEC. BY AF&PA) AND TPI. IIM BCG
WITH A653 GRADE 40/60 (W. K/H,SS) GALV. STEEL. APPLY

Year	Total Workforce (Millions)	Nonfarm Sector (Millions)
1990	100	80
1995	105	85
2000	110	90
2005	115	95
2010	135	115

LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z. A SEAL ON THIS ANNEX A3 OF TP11-2002 SEC.3. THE TRUSS COMPONENT BEING RESPONSIBILITY SOLELY FOR THE

✓ **EW Building Components**

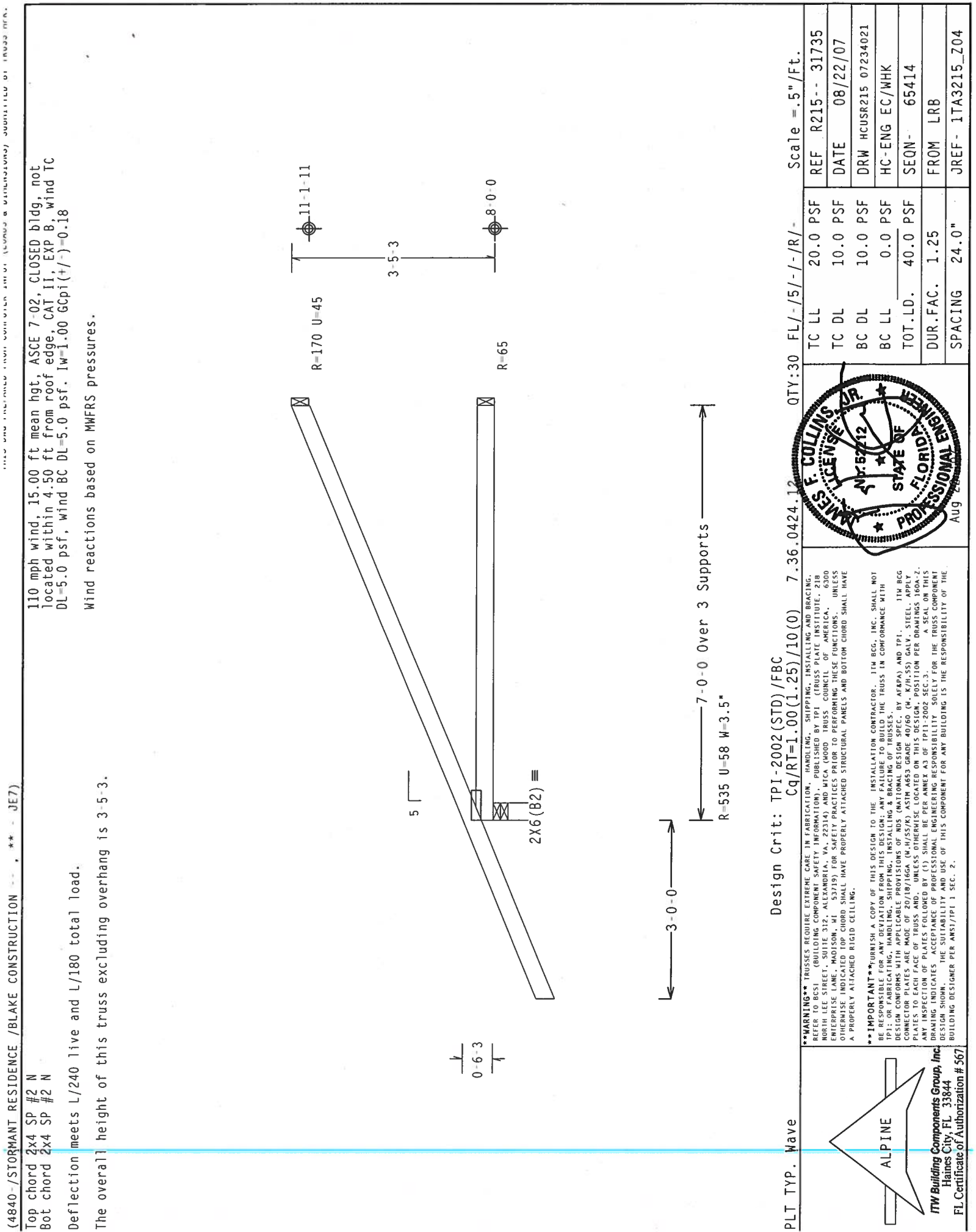
COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

11th Building Components
Haines City, FL

FL Certificate of Author

The overall height of this truss excluding overhang is 27-3.

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Haines City, FL 33844
FL Certificate of Authorization # 567



(4840-/STORMANT RESIDENCE /BLAKE CONSTRUCTION -- ** - JE7)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 3-5-3.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18
Wind reactions based on MWFRS pressures.

R=170 U=45
R=65
3-5-3
11-1-11
8-0-0
5
2X6 (B2) =
3-0-0
7-0-0 Over 3 Supports
R=535 U-58 W-3.5"

PLT TYP. Wave

ALPINE

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

Design Crit: TPI-2002 (STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7-36.0424.12

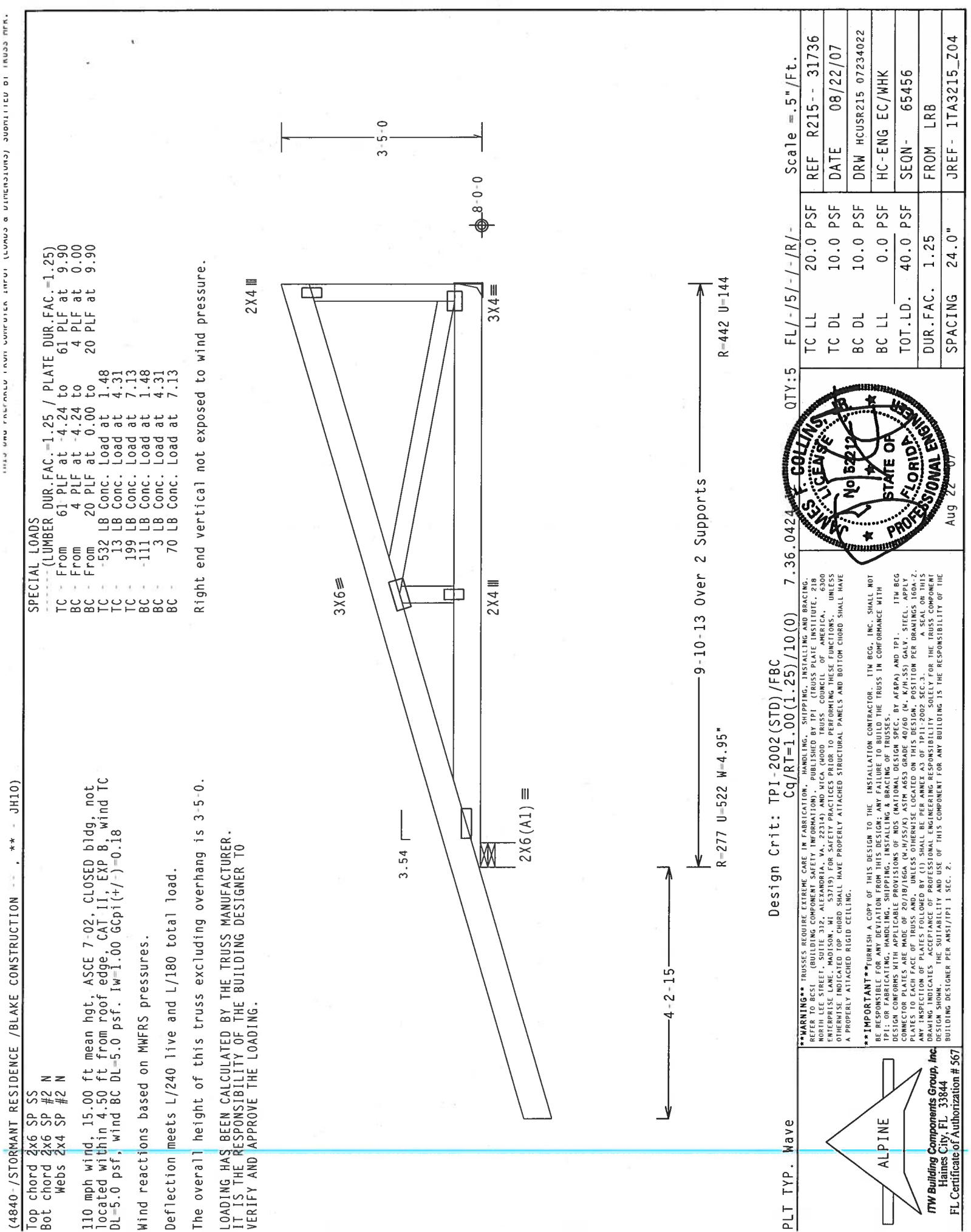
QTY: 30 FL/-/5/-/1-R/-
Scale = .5"/Ft.

TC LL	20.0 PSF	REF R215-- 31735
TC DL	10.0 PSF	DATE 08/22/07
BC DL	10.0 PSF	DRW HCUSR215 07234021
BC LL	0.0 PSF	HC-ENG EC/WHK
TOT.LD.	40.0 PSF	SEQN- 65414
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TA3215_Z04

JAMES F. COLLINS, JR.
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 57112
Aug 2007

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE TRUSS SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION. CONNECTOR PLATES ARE MADE OF 2018/16GA (W 45/18X) ASTM A653 GRADE 40 (G40 KIN/SS) GALV. STEEL. APPL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. (2) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



(4840 - STORMANT RESIDENCE / BLAKE CONSTRUCTION - ** - JH10)

Top chord 2x6 SP #2 S
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

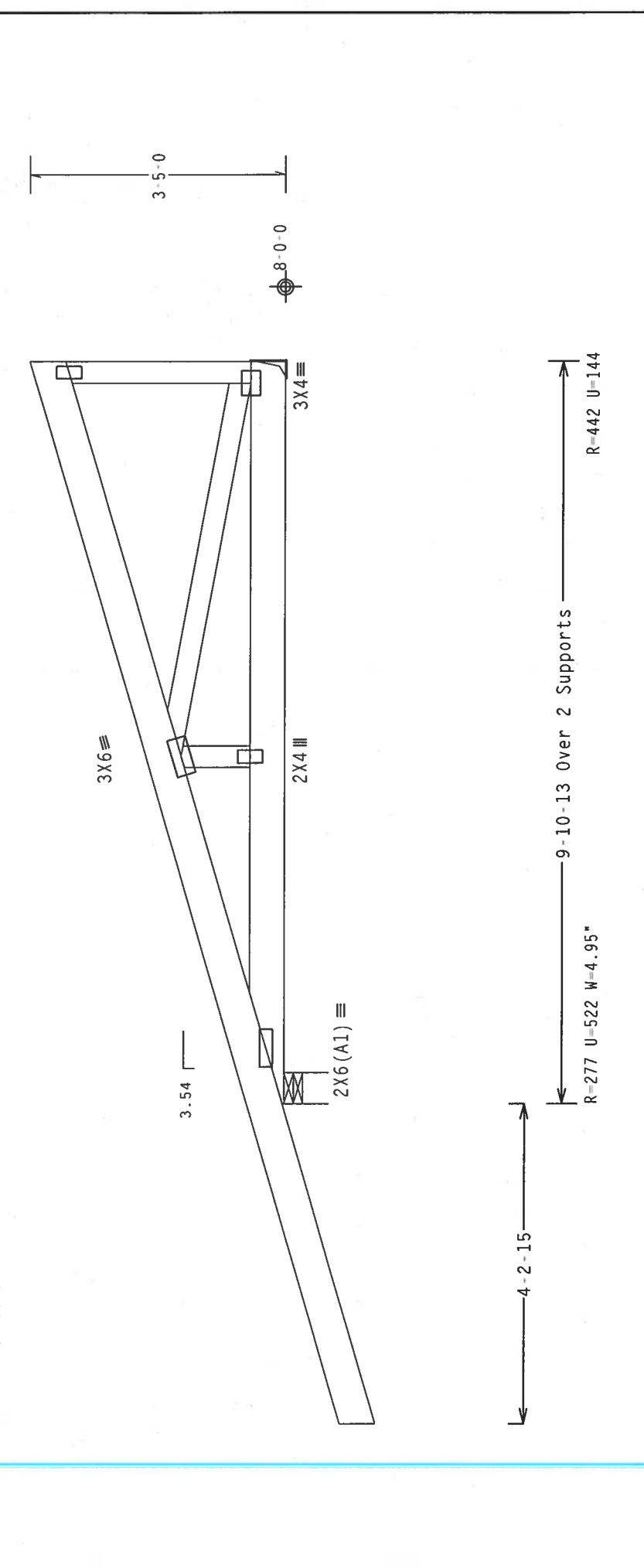
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi(+/-)-0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 3-5-0.

LOADING HAS BEEN CALCULATED BY THE TRUSS MANUFACTURER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO VERIFY AND APPROVE THE LOADING.



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.36.0424	QTY:5	FL/-/5/-/R/-	Scale =.5"/Ft.
ALPINE	**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 6100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN.				
	TPI OR QUALIFIED HANDLING AND SHIPPING. THE TRUSS SHALL BE SHIPPED IN CONFORMANCE WITH THE REQUIREMENTS OF THE DESIGN. THE TRUSS SHALL BE SHIPPED IN CONFORMANCE WITH THE REQUIREMENTS OF THE DESIGN. THE TRUSS SHALL BE SHIPPED IN CONFORMANCE WITH THE REQUIREMENTS OF THE DESIGN. THE TRUSS SHALL BE SHIPPED IN CONFORMANCE WITH THE REQUIREMENTS OF THE DESIGN.				
	CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/H/55/K) ASTM A653 GRADE 40/60 (M, K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE REQUIRED TO VERIFY THE QUALITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.				
	IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN. ITEM BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE REQUIREMENTS OF THIS DESIGN.				
ITW Building Components Group, Inc. Haines City, FL 33844 FL Certificate of Authorization # 567					

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 CLUB 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.

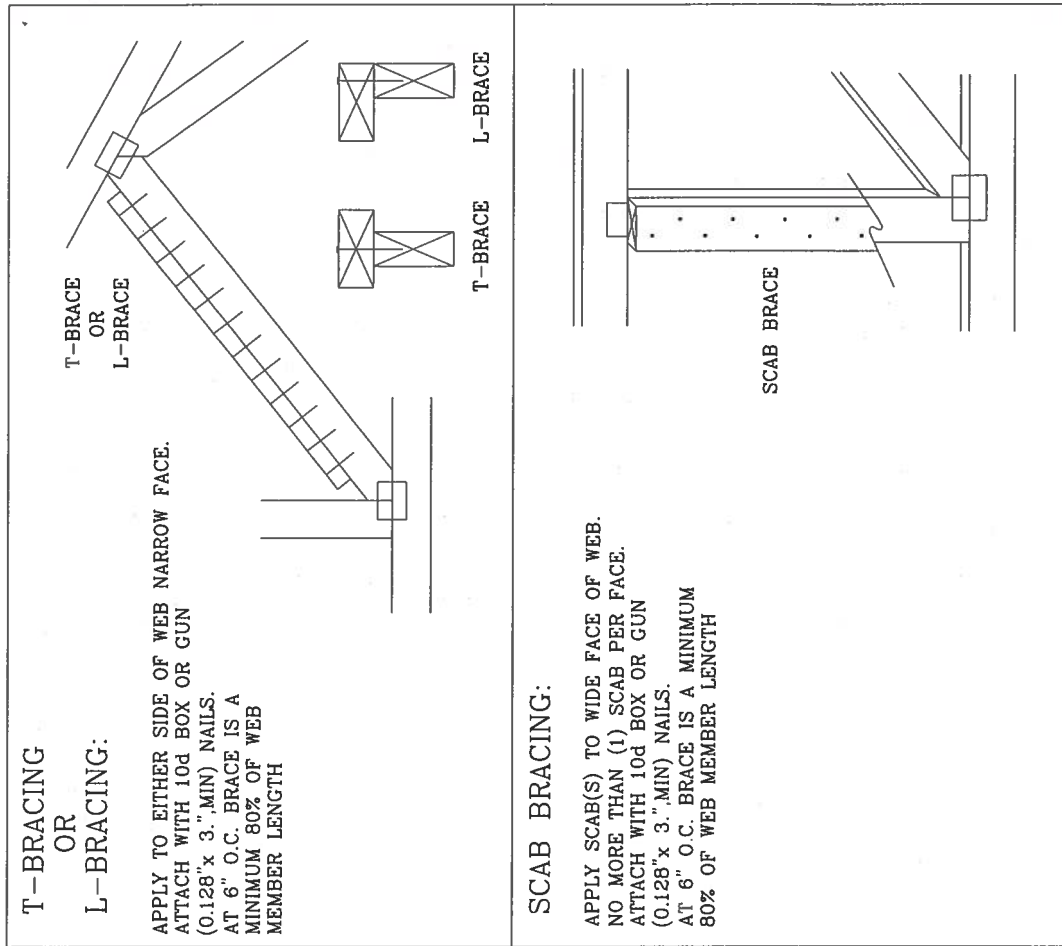
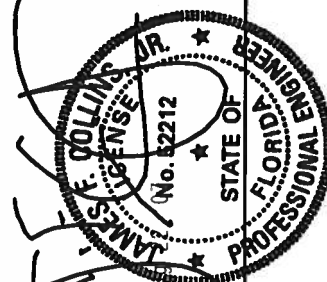


ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND DEMOUNTING. REFER TO THE FOLLOWING PUBLISHED BY THE CRUSS PLATE MANUFACTURING INSTITUTE, 218 NORTH LEE STREET, SUITE 312, CHICAGO, ILLINOIS 60606, U.S.A. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. GALV. STEEL CONNECTOR PLATES ARE MADE OF 2018/186GA (W/H/SS/CS) ASTM A653 GRADE 40/60 (W/H/SS) DESIGN. POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (X) SHALL BE PER DESIGN. PER SPEC. 2.0. ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE TPI FOR THE BUILDING DESIGNER'S RESPONSIBILITY. PER ANSI/TPI 1. SEC. 2



THIS DRAWING REPLACES DRAWING 579.640

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

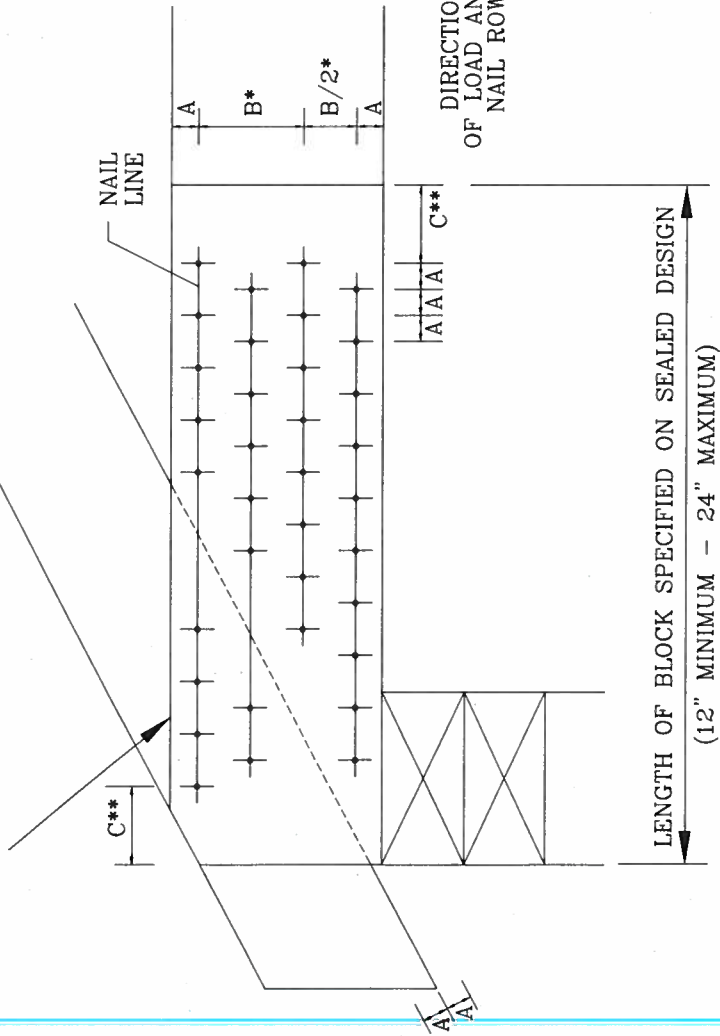
BEARING BLOCK NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
• SPACING MAY BE REDUCED BY 50%
• SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (Fc-perp) IS AT LEAST THAT OF THE CHORD.



MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES				
	A	B*	C**		
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"		
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"		
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"		
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"		
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"		
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"		
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"		
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"		
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"		
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"		
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"		
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"		
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"		

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X 2.5",MIN)	3	6	9	12	15
10d BOX (0.128"X 3",MIN)	3	5	7	10	12
12d BOX (0.128"X 3.25",MIN)	3	5	7	10	12
16d BOX (0.135"X 3.5",MIN)	3	5	7	10	12
20d BOX (0.148"X 4",MIN)	2	4	5	6	8
8d COMMON (0.131"X 2.5",MIN)	3	5	7	10	12
10d COMMON (0.148"X 3",MIN)	2	4	6	8	10
12d COMMON (0.148"X 3.25",MIN)	2	4	6	8	10
16d COMMON (0.162"X 3.5",MIN)	2	4	6	8	10
GUN (0.120"X 2.5",MIN)	3	6	8	11	14
GUN (0.131"X 2.5",MIN)	3	5	7	10	12
GUN (0.120"X 3",MIN)	3	6	8	11	14
GUN (0.131"X 3",MIN)	3	5	7	10	12

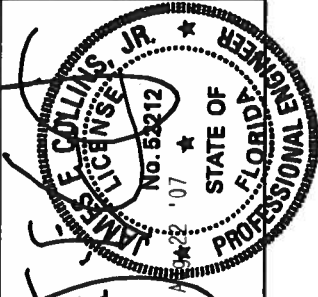
THIS DRAWING REPLACES DRAWING B139 AND CNBRGHLK0699

REF	BEARING BLOCK
DATE	2/23/07
DRWG	CNBRGHLK0207
-ENG	SJP/KAR

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312 ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. UNLESS OTHERWISE INDICATED, ALL NAIL TYPES AND SIZES 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. ITV BCG, 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 TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITV, BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/SS) ASHT A653 GRADE 40/60 (W/H/SS) UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS. FOR 2" UNLESS OTHERWISE INDICATED. THIS DRAWING IS THE PROPERTY OF 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.

ITV BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA



Residential System Sizing Calculation

Summary

Stormant

Project Title:
708241BlakeConstructionStormant

Class 3 Rating
Registration No. 0
Climate: North

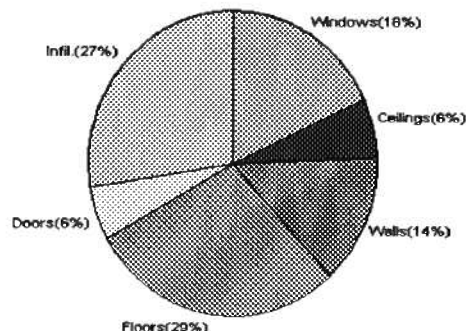
8/24/2007

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	22494 Btuh	Total cooling load calculation	16061 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.6 26000	Sensible (SHR = 0.75)	157.3 19500
Heat Pump + Auxiliary(0.0kW)	115.6 26000	Latent	177.3 6500
		Total (Electric Heat Pump)	161.9 26000

WINTER CALCULATIONS

Winter Heating Load (for 1200 sqft)

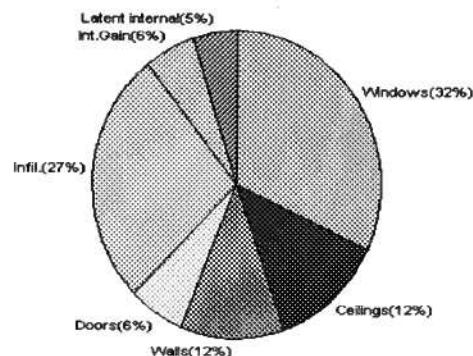
Load component		Load	
Window total	127 sqft	4088	Btuh
Wall total	957 sqft	3143	Btuh
Door total	100 sqft	1295	Btuh
Ceiling total	1200 sqft	1414	Btuh
Floor total	148 sqft	6462	Btuh
Infiltration	150 cfm	6092	Btuh
Duct loss		0	Btuh
Subtotal		22494	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		22494	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1200 sqft)

Load component		Load	
Window total	127 sqft	5139	Btuh
Wall total	957 sqft	1911	Btuh
Door total	100 sqft	980	Btuh
Ceiling total	1200 sqft	1987	Btuh
Floor total		0	Btuh
Infiltration	78 cfm	1459	Btuh
Internal gain		920	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		12396	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		2865	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		800	Btuh
Total latent gain		3665	Btuh
TOTAL HEAT GAIN		16061	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 8/24/07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Stormant

Project Title:

Class 3 Rating

708241BlakeConstructionStormant

Registration No. 0

Lake City, FL

Climate: North

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

8/24/2007

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NE	6.0		32.2	193 Btuh
4	2, Clear, Metal, 0.87	NE	12.0		32.2	386 Btuh
5	2, Clear, Metal, 0.87	SE	48.0		32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
7	2, Clear, Metal, 0.87	SW	12.0		32.2	386 Btuh
Window Total			127(sqft)			4088 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	809		3.3	2657 Btuh
2	Frame - Wood - Adj(0.09)	13.0	148		3.3	486 Btuh
Wall Total			957			3143 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		60		12.9	777 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			100			1295Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1200		1.2	1414 Btuh
Ceiling Total			1200			1414Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	148.0 ft(p)		43.7	6462 Btuh
Floor Total			148			6462 Btuh
Zone Envelope Subtotal:						16402 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.94	9600		150.4	6092 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					22494 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Stormant
Lake City, FL

Project Title:
708241BlakeConstructionStormant

Class 3 Rating
Registration No. 0
Climate: North

8/24/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	22494 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	22494 Btuh

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

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Stormant

Project Title:

Class 3 Rating

708241BlakeConstructionStormant

Registration No. 0

Lake City, FL

Climate: North

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

8/24/2007

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	9.0		32.2	290 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NE	6.0		32.2	193 Btuh
4	2, Clear, Metal, 0.87	NE	12.0		32.2	386 Btuh
5	2, Clear, Metal, 0.87	SE	48.0		32.2	1545 Btuh
6	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
7	2, Clear, Metal, 0.87	SW	12.0		32.2	386 Btuh
Window Total			127(sqft)			4088 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	809		3.3	2657 Btuh
2	Frame - Wood - Adj(0.09)	13.0	148		3.3	486 Btuh
Wall Total			957			3143 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		60		12.9	777 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			100			1295Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1200		1.2	1414 Btuh
Ceiling Total			1200			1414Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	148.0 ft(p)		43.7	6462 Btuh
Floor Total			148			6462 Btuh
Zone Envelope Subtotal:						16402 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	9600	150.4		6092 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					22494 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Stormant
Lake City, FL

Project Title:
708241BlakeConstructionStormant

Class 3 Rating
Registration No. 0
Climate: North

8/24/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	22494 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	22494 Btuh

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

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Stormant

Project Title:

Class 3 Rating

708241BlakeConstructionStormant

Registration No. 0

Lake City, FL

Climate: North

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

8/24/2007

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	3ft.	4ft.	9.0	0.0	9.0	29	60	540 Btuh	
2	2, Clear, 0.87, None,N,N	NW	3ft.	6ft.	20.0	0.0	20.0	29	60	1201 Btuh	
3	2, Clear, 0.87, None,N,N	NE	3ft.	4ft.	6.0	0.0	6.0	29	60	360 Btuh	
4	2, Clear, 0.87, None,N,N	NE	3ft.	5ft.	12.0	0.0	12.0	29	60	720 Btuh	
5	2, Clear, 0.87, None,N,N	SE	11ft.	5ft.	48.0	48.0	0.0	29	63	1390 Btuh	
6	2, Clear, 0.87, None,N,N	SE	11ft.	7ft.	20.0	20.0	0.0	29	63	579 Btuh	
7	2, Clear, 0.87, None,N,N	SW	3ft.	5ft.	12.0	12.0	0.0	29	63	348 Btuh	
Window Total					127 (sqft)					5139 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			809.0		2.1		1687 Btuh		
2	Frame - Wood - Adj	13.0/0.09			148.0		1.5		223 Btuh		
Wall Total						957 (sqft)		1911 Btuh			
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Exterior				20.0		9.8		196 Btuh		
2	Insulated - Adjacent				60.0		9.8		588 Btuh		
3	Insulated - Exterior				20.0		9.8		196 Btuh		
Door Total						100 (sqft)		980 Btuh			
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			1200.0		1.7		1987 Btuh		
Ceiling Total						1200 (sqft)		1987 Btuh			
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			148 (ft(p))		0.0		0 Btuh		
Floor Total						148.0 (sqft)		0 Btuh			
	Zone Envelope Subtotal:									10017 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load		
	SensibleNatural	0.49			9600		78.4		1459 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	4			X 230 +			0		920 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)									DGM = 0.00	0.0 Btuh
	Sensible Zone Load									12396 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Stormant
Lake City, FL

Project Title:
708241BlakeConstructionStormant

Class 3 Rating
Registration No. 0
Climate: North

8/24/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	12396 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	12396 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	12396 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2865 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3665 Btuh
	TOTAL GAIN	16061 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

Stormant

Project Title:

Class 3 Rating

708241BlakeConstructionStormant

Registration No. 0

Lake City, FL

Climate: North

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

8/24/2007

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	3ft.	4ft.	9.0	0.0	9.0	29	60	540	Btuh
2	2, Clear, 0.87, None,N,N	NW	3ft.	6ft.	20.0	0.0	20.0	29	60	1201	Btuh
3	2, Clear, 0.87, None,N,N	NE	3ft.	4ft.	6.0	0.0	6.0	29	60	360	Btuh
4	2, Clear, 0.87, None,N,N	NE	3ft.	5ft.	12.0	0.0	12.0	29	60	720	Btuh
5	2, Clear, 0.87, None,N,N	SE	11ft.	5ft.	48.0	48.0	0.0	29	63	1390	Btuh
6	2, Clear, 0.87, None,N,N	SE	11ft.	7ft.	20.0	20.0	0.0	29	63	579	Btuh
7	2, Clear, 0.87, None,N,N	SW	3ft.	5ft.	12.0	12.0	0.0	29	63	348	Btuh
Window Total					127 (sqft)					5139 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			809.0			2.1		1687 Btuh	
2	Frame - Wood - Adj	13.0/0.09			148.0			1.5		223 Btuh	
Wall Total					957 (sqft)					1911 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Adjacent				60.0			9.8		588 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					100 (sqft)					980 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1200.0			1.7		1987 Btuh	
Ceiling Total					1200 (sqft)					1987 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			148 (ft(p))			0.0		0 Btuh	
Floor Total					148.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									10017 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			9600			78.4		1459 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	4			X 230 +			0		920 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12396 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Stormant
Lake City, FL

Project Title:
708241BlakeConstructionStormant

Class 3 Rating
Registration No. 0
Climate: North

8/24/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	12396 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	12396 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	12396 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2865 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3665 Btuh
	TOTAL GAIN	16061 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

Stormant

Project Title:
708241BlakeConstructionStormant

Class 3 Rating
Registration No. 0
Climate: North

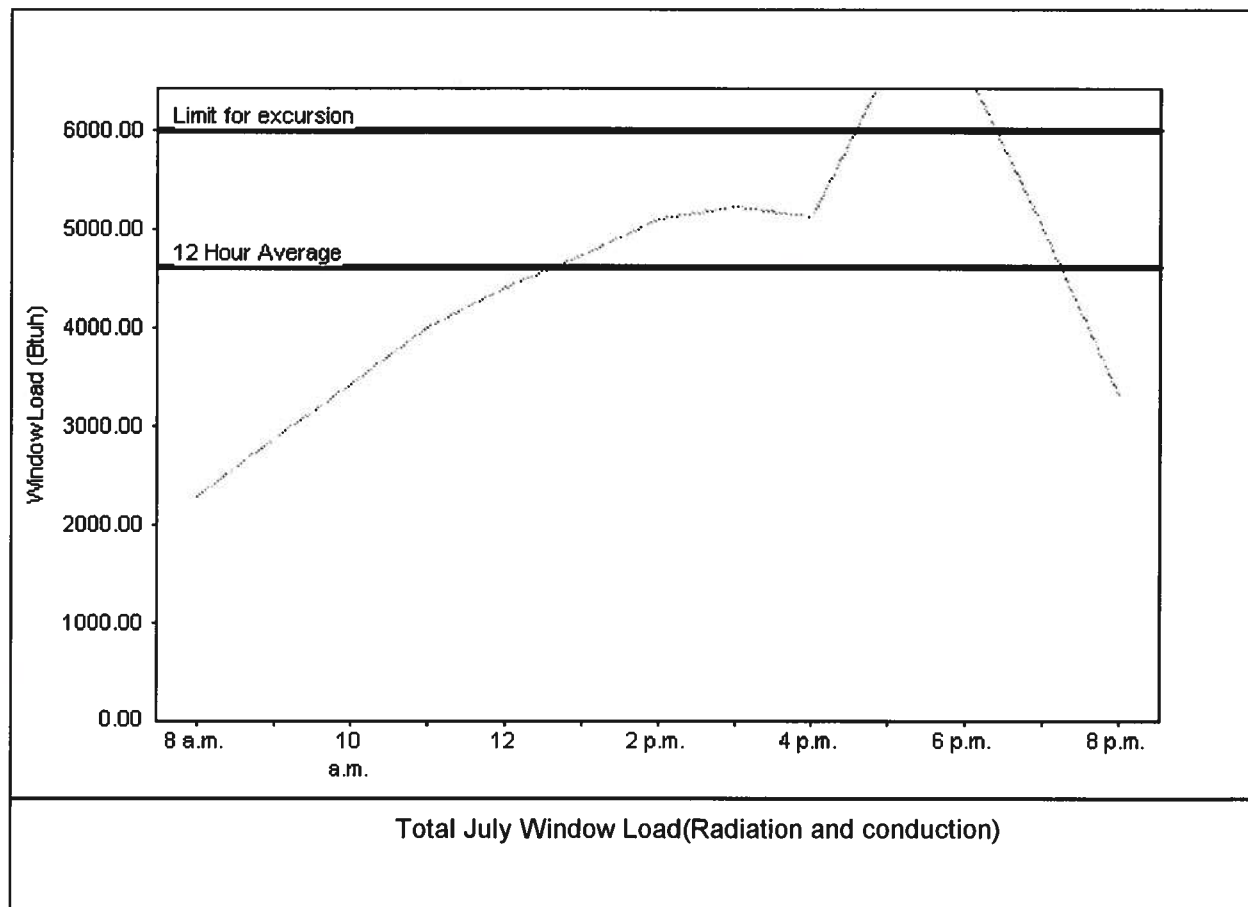
Lake City, FL

8/24/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4611 Btuh
Summer setpoint	75 F	Peak window load for July	6644 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	5994 Btuh
Latitude	29 North	Window excursion (July)	649 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY:

DATE:

8/24/07

EnergyGauge® FLR2PB v4.1



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COMMUNITY PLANNING

HOUSING & COMMUNITY
DEVELOPMENTEMERGENCY
MANAGEMENTOFFICE OF THE
SECRETARY

FL # FL1086-R1

Application Type Revision

Code Version 2004

Application Status Approved

Comments

Archived ☐

Product Manufacturer

Andersen Corporation

Address/Phone/Email

100 Fourth Avenue North
Bayport, MN 55003
(651) 264-5308
abarstad@andersencorp.com

Authorized Signature

Alan Barstad
abarstad@andersencorp.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Windows

Subcategory

Casement

Compliance Method

Certification Mark or Listing

Certification Agency

Window and Door Manufacturers Association

Referenced Standard and Year (of

Standard

Standard) 101/I.S.2
101/I.S.2/A440
ASTM E 1996

Equivalence of Product Standards
Certified By

Product Approval Method Method 1 Option A

Date Submitted 11/02/2005
Date Validated 11/02/2005
Date Pending FBC Approval 11/09/2005
Date Approved 12/06/2005

Summary of Products

FL #	Model, Number or Name	Description
1086.1	200/400 Series Casement Window - Doubles - Impact Resistant	Vinyl Clad Casement Wood Window
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Hallmark Certificate 129-H-636.00 Rating is C-C50 57" x 72" Unit tested was CW26 w/HPIR Glass Hallmark Certificate 129-H-636.02 Rating is ASTM E1996-02, Missile D, Cycle Pressure of +50/-65 Unit tested was CW26 w/HPIR Glass		Certification Agency Certification Installation Instructions PTID 1086_R1_I_FSC-A_Inst_I PTID 1086_R1_I_FSC-A_Inst_I Impact.pdf Verified By:
1086.2	200/400 Series Casement Window - Doubles - Non Impact	Vinyl Clad Casement Wood Window
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Hallmark Certificate 129-H-674.00 Rating is C-C45 72" x 60" Unit Tested was a CXW25 with HP Glass Hallmark Certificate 129-H-674.01 Rating is C-C50 72" x 53" Unit Tested was a CXW245 with HP Glass Hallmark Certificate 129-H-685.00 Rating is C-C50 57" x 72" Unit Tested was a CW26 with HP Glass		Certification Agency Certification Installation Instructions Verified By:

Hallmark Certificate 129-H-730.01 Rating is C-R50 1594mm x 1520mm Unit Tested was a CX25 with HP Glass		
1086.3	200/400 Series Casement Window - Singles - Impact Resistant	Vinyl Clad Outswing Casement Window
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Hallmark Certificate 129-H-634.00 Rating is C-C50 29" x 72" Unit Tested was a CW16 w/HPIR Hallmark Certificate 129-H-634.02 Rating is ASTM E1996, Missile D, Cycle Pressure of +50/-65 Unit Tested was a CW16 w/HPIR Hallmark Certificate 129-H-637.00 Rating is C-C50 36" x 53" Unit tested was CXW145 w/HPIR Hallmark Certificate 129-H-637.02 Rating is ASTM E1996-02, Missile D, Cycle Pressure of +50/-65 Unit tested was CXW145 w/HPIR		Certification Agency Certificate Installation Instructions Verified By:
1086.4	200/400 Series Casement Window - Singles - Non Impact	Vinyl Clad Wood Casement Window
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Hallmark Certificate 129-H-630.00 Rating is C-C50 36" x 72" Unit tested was CXW16 with HP Glass Hallmark Certificate 129-H-631.00 Rating is C-C75 25" x 60" Unit tested was a C15 with HP Glass		Certification Agency Certificate Installation Instructions Verified By:
1086.5	200/400 Series Casement Window - Triples - Impact Resistant	Vinyl Clad Wood Casement Window
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Hallmark Certificate 129-H-635.00 Rating is C-C50 72" x 60" Unit tested was a C35 w/HPIR Glass Hallmark Certificate 129-H-635.02 Rating is ASTM E1996-02, Missile D, Cycle Pressure +50/-65 Unit tested was a C35 w/HPIR Glass		Certification Agency Certificate Installation Instructions Verified By:
1086.6	200/400 Series Casement	Vinyl Clad Wood Casement Window

Window - Triples - Non Impact	
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Hallmark Certificate 129-H-686.00 Rating is C-C60 72" x 60" Unit tested was C35 with HP Glass Hallmark Certificate 129-H-695.00 Rating is C-C40 85" x 60" Unit tested was CW35 with HP Glass	Certification Agency Certificate Installation Instructions Verified By:

Back

Next

DCA Administration

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2555 Shumard Oak Boulevard
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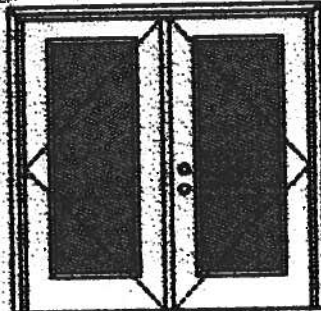
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Product Approval Accepts:



XX**Glazed Outswing Unit**

204 WL JMT152 02

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

Units of other sizes are covered by this report as long as the panels used do not exceed 30" x 68".

Double Door
Maximum unit size - 68" x 68"

Design Pressure
+40.5/-40.5

Limited water entry; special threshold design is used.

Large-Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:**1/4 GLASS:**

100 Series



130, 135 Series



135 Series



400 Series



402 Series

1/2 GLASS:

105 In. Series



105, 106 Series*



120 Series*



200 Series*



12 GL, 23 GL, 24 GL Series*



107 Series*



108 Series



304 Series

*This glass is only used in the following door styles: 5-panel; 5-panel with wood; 5-panel 5-panel; 5-panel 5-panel with wood.

Johnson
Window Systems

March 20, 2008
Our window systems are designed, engineered, and produced to meet the highest standards of quality and performance.

PREMDOR
Premium Quality Doors

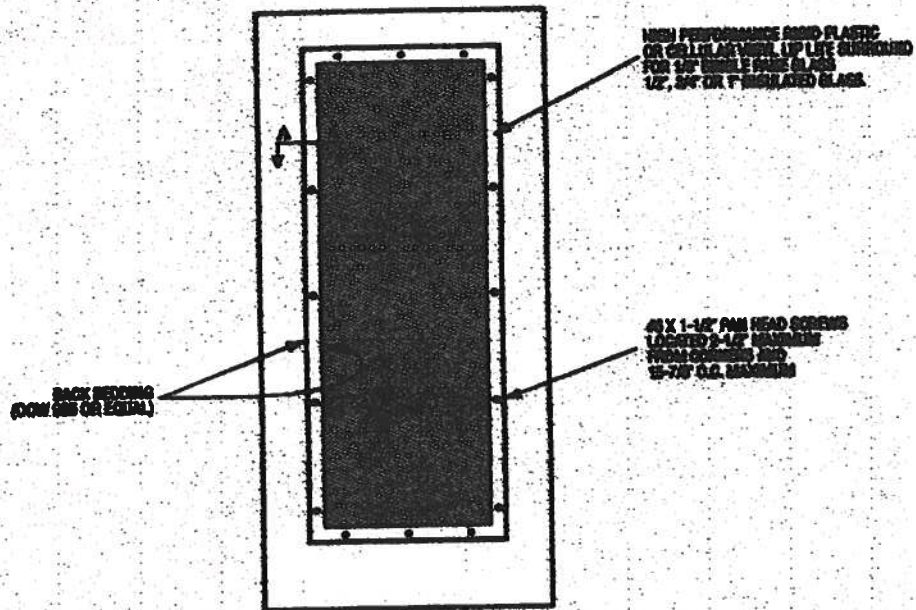


Exclusively from

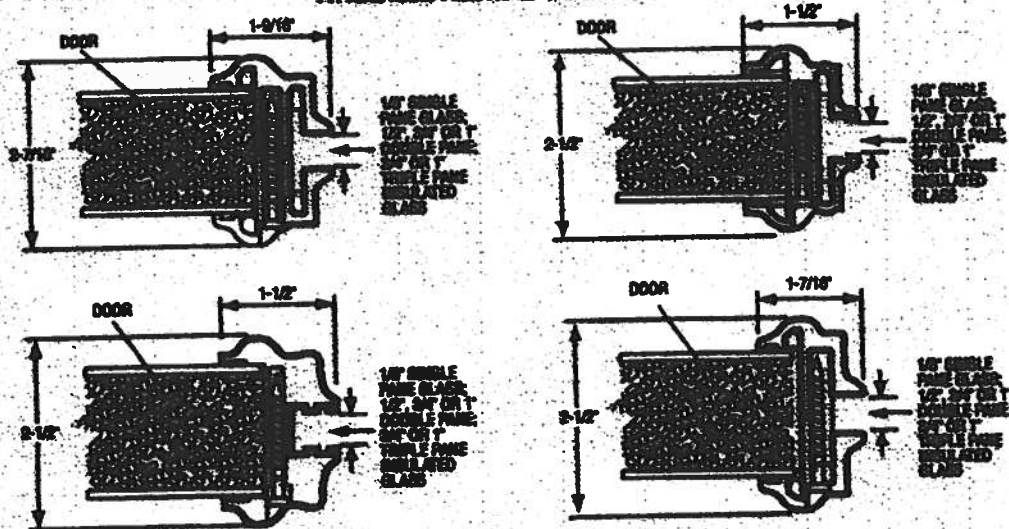
Masonite
Masonite International Corporation

MAD-VL-MASCH-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



March 29, 2012
Current design is subject to product improvement without notification.
Design and construction subject to change without notice.

PREMIER
Premium Quality Doors

Exclusively from
Masonite
Masonite International Corporation

XX

Glazed Caswing Unit

SCF 010 10/10/02

WOOD-EDGE STEEL DOORS

APPROX 8 DOOR STYLES:

2/4 GLASS:



400 Series



400 Series



400 Series

FULL GLASS:



100 Series



114, 120, 122 Series



102 Series



140 Series



200 Series

CERTIFICATE & TEST REPORTS:

NCTL 210-1887-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 18258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L. Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. - License Number 58533

Johnson
Door Systems

March 29, 2002
Our entire program of product development, testing, design and production is designed to ensure product quality.

PREMIER
Premium Quality Doors



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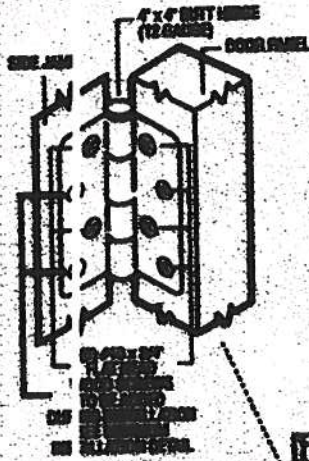
Masonite

Masonite International Corporation

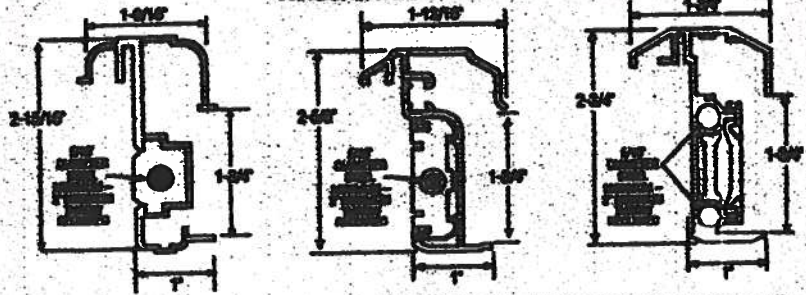
XX
Unit

OUTSWING UNITS WITH DOUBLE DOOR

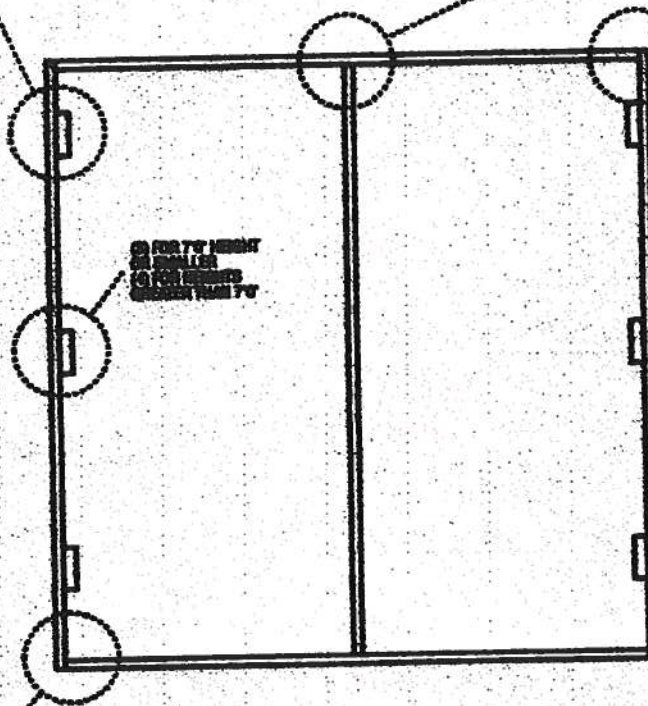
TYPICAL H. SIDE ATTACHMENT



TYPICAL ALUMINUM PROFILES



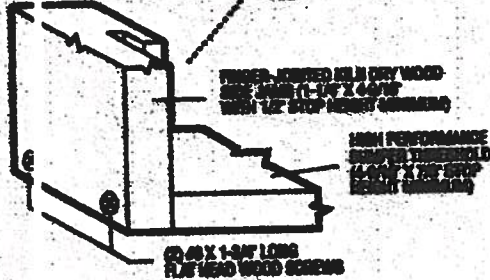
ALUMINUM EXTENDED ALUMINUM FLAT MINIMUM WALL THICKNESS WITH ADDED REINFORCEMENT BARS AT TOP EXTERIOR WALL, BOTTOM EXTERIOR WALL AND EXTERIOR REINFORCEMENT LOCATIONS. ATTACH WITH 40 X 1\"/>



TYPICAL HEADER & SIDE JAMB ATTACHMENT



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



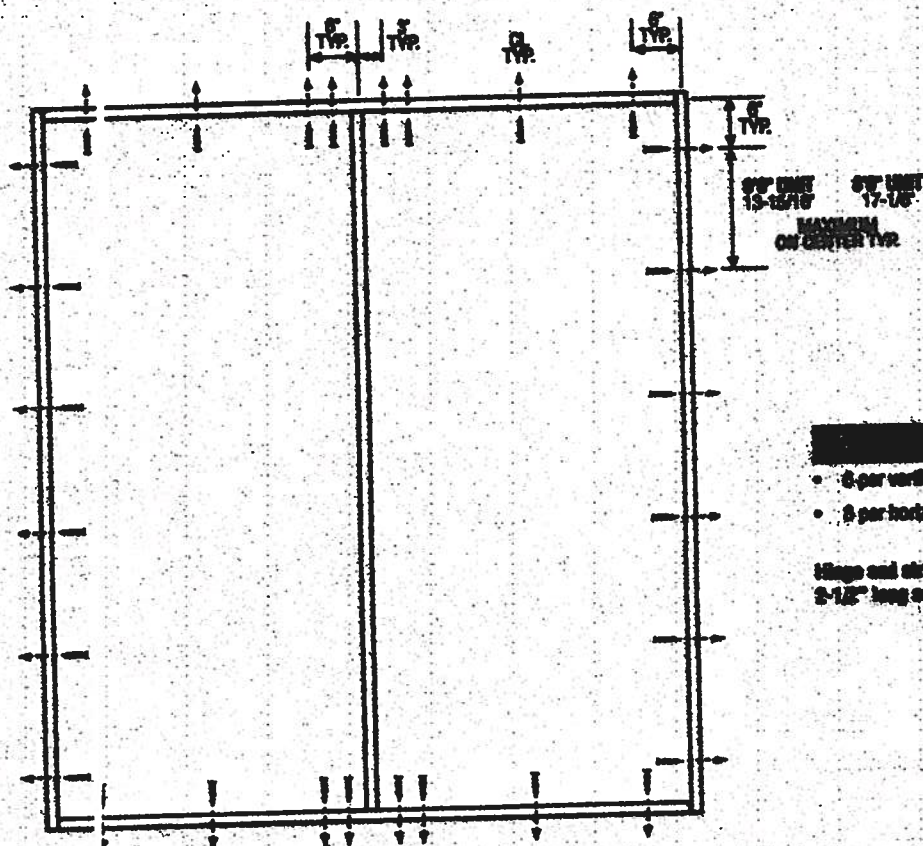
March 21, 2002
Our words are a promise of product improvement, better quality, and design for product development to change what's out there.



XX
Unit

1000 1000 1000 1000

DOUBLE DOOR



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

Hinge and strike plates require two 2-1/2\"

Latching Hardware:

- Com. fence requires that GRADE 2 or better (ANSI/ENHSA A155.2) cylindrical and deadlock hardware be installed.

Notes:

1. And or calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners used for this unit include #8 and #10 wood screws or 3/16\"
2. The wood screw single shear design values come from Table 11.3A of ANSI/APA & PA NDS for southern pine lumber with a side member thickness of 1-1/2\"
3. Work done by others, must be anchored properly to transfer loads to the structure.

March 20 2000
Our products are subject to product improvement without notification.
design and specifications are subject to change without notice.



Shingle

FLORIDA DEPARTMENT OF Community Affairs



- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

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Product Approval
USER: Public User

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FL # FL1956-R1
Application Type Revision
Code Version 2004
Application Status Approved
Comments
Archived ☐

Product Manufacturer TAMKO Building Products, Inc.
Address/Phone/Email PO Box 1404
 Joplin, MO 64802
 (800) 641-4691 ext 2394
 fred_oconnor@tamko.com

Authorized Signature Frederick O'Connor
 fred_oconnor@tamko.com

Technical Representative Frederick J. O'Connor
Address/Phone/Email PO Box 1404
 Joplin, MO 64802
 (800) 641-4691
 fred_oconnor@tamko.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Asphalt Shingles

Compliance Method

Certification Mark or Listing

Certification Agency

Underwriters Laboratories Inc.

Referenced Standard and Year (of
Standard)

Standard
ASTM D 3462

Year
2001

Equivalence of Product Standards
Certified By

Product Approval Method

Method 1 Option A

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

06/09/2005
06/20/2005
06/25/2005
06/29/2005

Summary of Products

FL #	Model, Number or Name	Description
------	-----------------------	-------------

slopes of 2:12 or greater. Not approved for use in HVHZ.

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DCA Administration

**Department of Community Affairs
Florida Building Code Online
Codes and Standards**

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Tallahassee, Florida 32399-2100

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Product Approval Accepts:





Underwriters
Laboratories Inc.

4
Underwriters Laboratories
333 Pfingsten Road
Northbrook, IL 60062-2098 USA
www.ul.com
Tel: 1 847 272 8000

Jun 17, 2005

Tan ko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let us know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division



Application Instructions for

HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

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

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

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

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

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

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

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

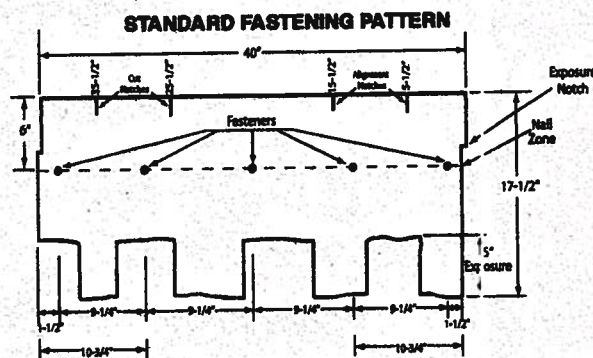
3. FASTENERS

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

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) **Standard Fastening Pattern.** (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).



2) **Mansard or Steep Slope Fastening Pattern.** (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

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220 West 4th St., Joplin, MO 64801
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2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

800-841-4691
800-368-2055
800-228-2656
800-443-1834
800-530-8868

05/06

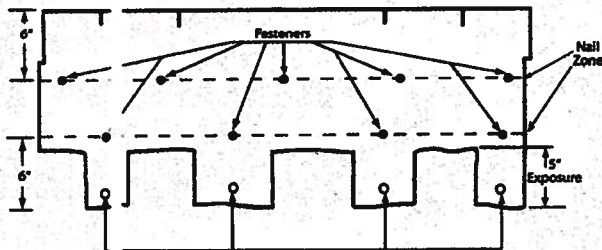


(CONTINUED from Pg. 1)

HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

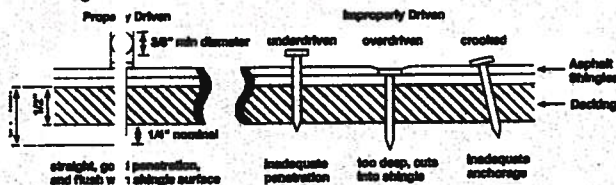
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, using 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

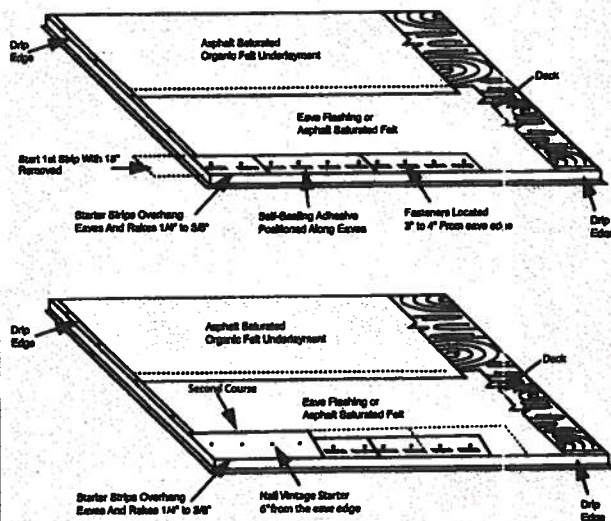
- TAMKO No. 15 Asphalt Saturated Organic Felt
- Any non-perforated asphalt saturated organic felt which meets ASTM D228, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation may be required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information. TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.

The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.



Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

(Continued)

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2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

800-641-4881
800-368-2055
800-228-2856
800-443-1834
800-530-8888

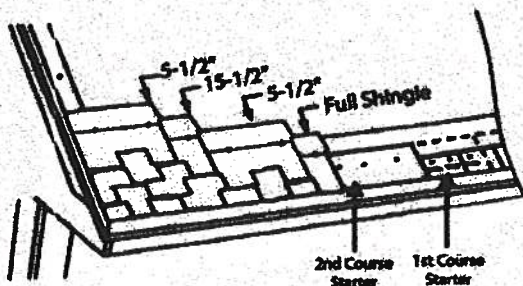
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(CONTINUED from Pg. 2)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or T/W Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the valley metal flashing (max. 6" onto metal valley flashing) and on top of the underlayment. The valley will be completed with shingle application.

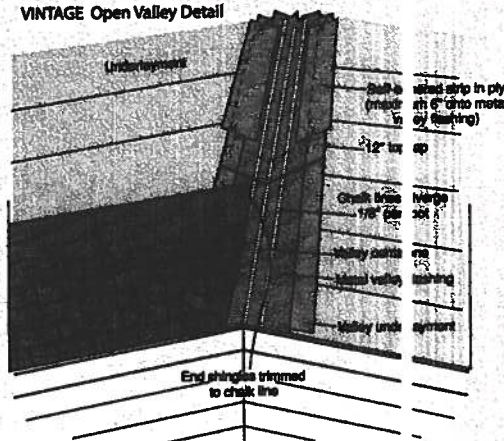
SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1 8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a long portion to be used.

- Clip 1" from the upper corner of each shingle on a 5° angle to direct water into the valley and prevent it from penetrating between the courses.
- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• CAUTION:

Adhesive must be applied in smooth, thin, even layer.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

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(CONTINUED from Pg. 3)

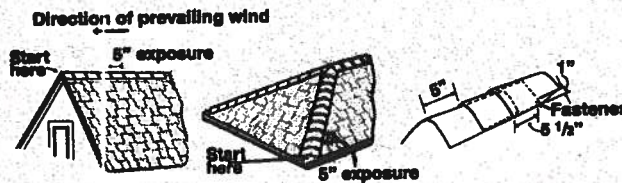
• HERITAGE® VINTAGE™ AR – Phillipsburg, IS LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

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

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



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

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and Vintage™ is a trademark of TAMKO Building Products, Inc.

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<http://www.fordbuilding.org/Customer.asp>

6/21/2004



Ford Building Information System

06/21/2004 07:37 AM

Organization: Product Manufacturer

Approved Status: (All)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Employee	Status
General American Door	Madison	James Campbell	608/350000	Product Manufacturer	06/01/2009	Approved

Org Code: PDM System ID: 3085

Site Link: www.fordbuilding.org

Building Code Information Systems

Overview	User Registration	Organization Registration	User Authentication	Organization Search	Organization Accreditation
1. Overview of the system and its components.	2. User registration process, including email verification and password creation.	3. Organization registration process, including document upload and review.	4. User authentication methods, such as login and password reset.	5. Organization search functionality, including filters and sorting options.	6. Organization accreditation process, including application and review.

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

Organization **Product Manufacture**
Type

(All)
Approved
Status:

Organization: General American Door - Product Manufacturers
Name:

Cancel

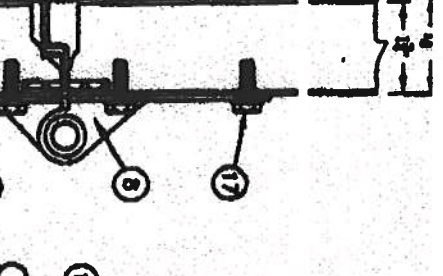
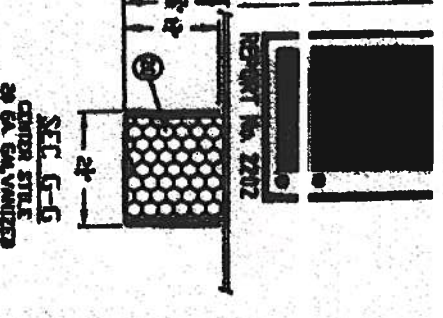
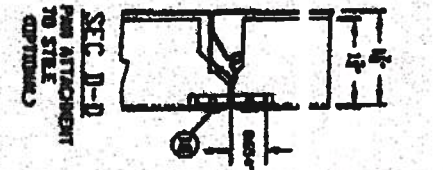
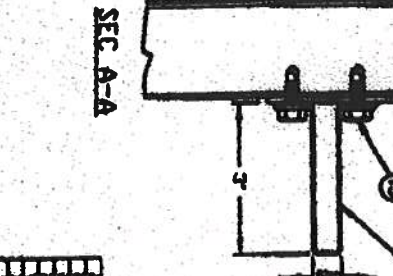
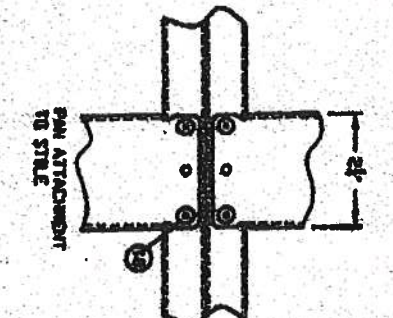
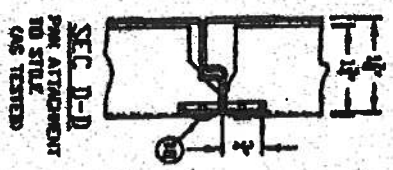
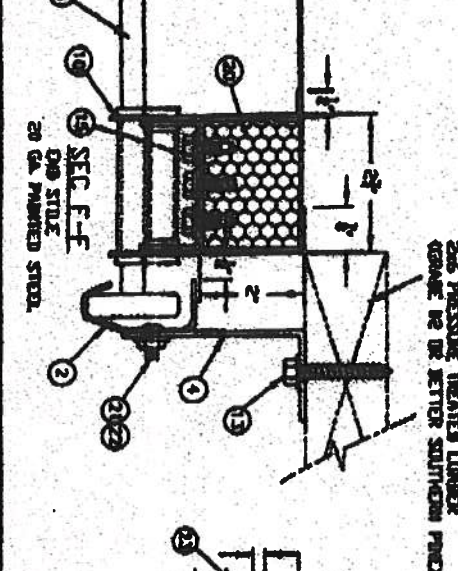
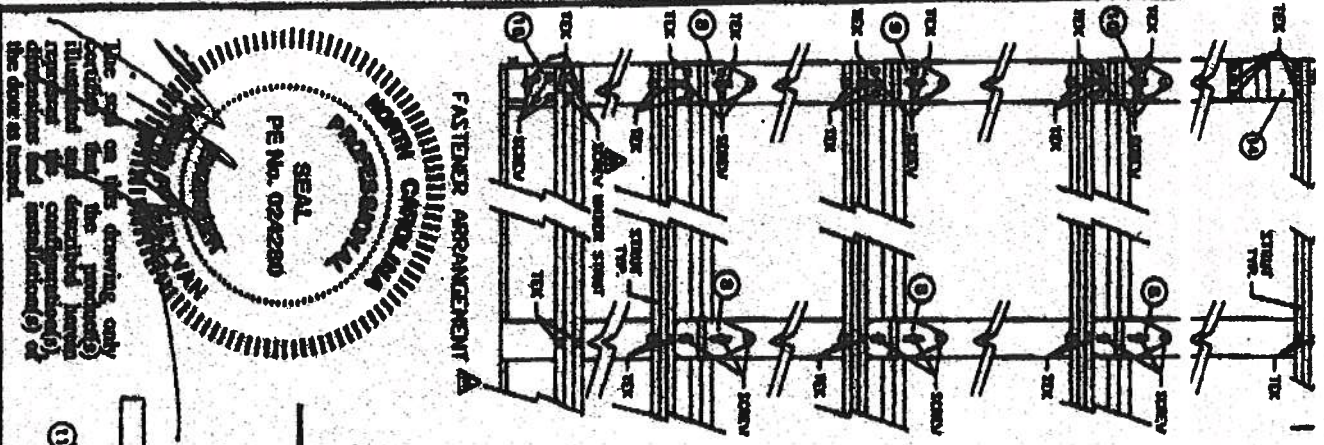
Read List for Organizations

Duplicating 1-1 of 1						
Name	City	Outstreet	Phone	Type	Expiry	Reason
General Announcements	Madison	Kenneth Campbell	604-597-1000	Product Information	04/01/2099	Approved
Date:						
Orig Code: F104 System ID: 3385			Site Link: www.ontario.ca			

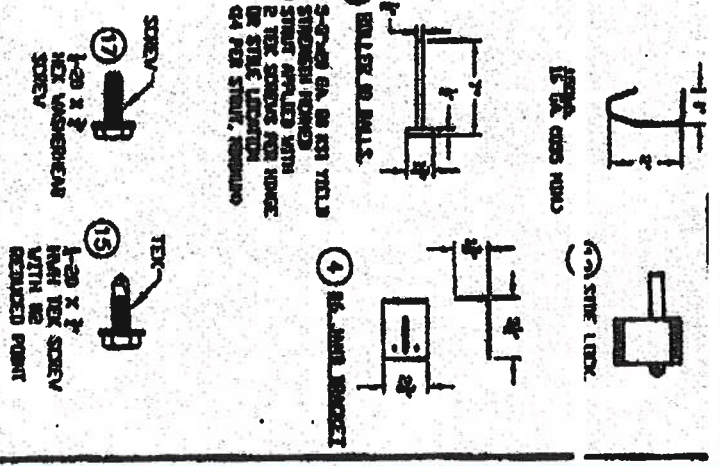
Displaying 1-1 of 1

<http://www.RoadBuilding.org/Concrete.asp>

1-02261A
LIVING THERM



COLUMBIA DOOR COMPANY	
GENERAL INFORMATION	
1. DOOR TYPE	2. DOOR SIZE
3. DOOR WEIGHT	4. DOOR FINISH
5. DOOR SCHEDULE	6. DOOR GLASS
7. DOOR HINGES	8. DOOR LOCKS
9. DOOR HANDLING	10. DOOR INSTALLATION
11. DOOR MAINTENANCE	12. DOOR REPAIRS
13. DOOR REPLACEMENT	14. DOOR DISPOSAL
15. DOOR STORAGE	16. DOOR SHIPPING
17. DOOR WARRANTY	18. DOOR RETURN
19. DOOR INSURANCE	20. DOOR LIABILITY
21. DOOR COMPLAINTS	22. DOOR RESOLUTION
23. DOOR FEEDBACK	24. DOOR IMPROVEMENT
25. DOOR INNOVATION	26. DOOR SUSTAINABILITY
27. DOOR SAFETY	28. DOOR SECURITY
29. DOOR ACCESSIBILITY	30. DOOR COMPLIANCE
31. DOOR ENERGY EFFICIENCY	32. DOOR SOUND ATTENUATION
33. DOOR VIBRATION DAMPING	34. DOOR THERMAL INSULATION
35. DOOR AIR SEALING	36. DOOR WEAR RESISTANCE
37. DOOR CORROSION RESISTANCE	38. DOOR UV PROTECTION
39. DOOR FADING RESISTANCE	40. DOOR SCRATCH RESISTANCE
41. DOOR IMPACT RESISTANCE	42. DOOR BURGLAR RESISTANCE
43. DOOR FIRE RESISTANCE	44. DOOR SMOKE RESISTANCE
45. DOOR SOUND RESISTANCE	46. DOOR VIBRATION RESISTANCE
47. DOOR THERMAL RESISTANCE	48. DOOR WEAR RESISTANCE
49. DOOR CORROSION RESISTANCE	50. DOOR UV PROTECTION
51. DOOR FADING RESISTANCE	52. DOOR SCRATCH RESISTANCE
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57. DOOR SOUND RESISTANCE	58. DOOR VIBRATION RESISTANCE
59. DOOR THERMAL RESISTANCE	60. DOOR WEAR RESISTANCE
61. DOOR CORROSION RESISTANCE	62. DOOR UV PROTECTION
63. DOOR FADING RESISTANCE	64. DOOR SCRATCH RESISTANCE
65. DOOR IMPACT RESISTANCE	66. DOOR BURGLAR RESISTANCE
67. DOOR FIRE RESISTANCE	68. DOOR SMOKE RESISTANCE
69. DOOR SOUND RESISTANCE	70. DOOR VIBRATION RESISTANCE
71. DOOR THERMAL RESISTANCE	72. DOOR WEAR RESISTANCE
73. DOOR CORROSION RESISTANCE	74. DOOR UV PROTECTION
75. DOOR FADING RESISTANCE	76. DOOR SCRATCH RESISTANCE
77. DOOR IMPACT RESISTANCE	78. DOOR BURGLAR RESISTANCE
79. DOOR FIRE RESISTANCE	80. DOOR SMOKE RESISTANCE
81. DOOR SOUND RESISTANCE	82. DOOR VIBRATION RESISTANCE
83. DOOR THERMAL RESISTANCE	84. DOOR WEAR RESISTANCE
85. DOOR CORROSION RESISTANCE	86. DOOR UV PROTECTION
87. DOOR FADING RESISTANCE	88. DOOR SCRATCH RESISTANCE
89. DOOR IMPACT RESISTANCE	90. DOOR BURGLAR RESISTANCE
91. DOOR FIRE RESISTANCE	92. DOOR SMOKE RESISTANCE
93. DOOR SOUND RESISTANCE	94. DOOR VIBRATION RESISTANCE
95. DOOR THERMAL RESISTANCE	96. DOOR WEAR RESISTANCE
97. DOOR CORROSION RESISTANCE	98. DOOR UV PROTECTION
99. DOOR FADING RESISTANCE	100. DOOR SCRATCH RESISTANCE



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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

NOTES:

- 1) ALL JOINT OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.
- 2) ALL JOINT OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SDCII "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTS 10," CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUILDINGS STUDS AT EACH SIDE OF JOINT OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAG BOLTS OF 2x6 PRESSURE TREATED SOUTHERN PINE (22 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FLOORING TO ROOFING TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE 2x6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT CMU WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2000 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS CMU SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3'-3/4"
- 8) LAG BOLTS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE THIN 2x6 WALL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM JOINT SIZE OF 18" X 8" AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS, AND AN ADDITIONAL 2x6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

COLUMBIA AMERICAN DOOR COMPANY	
SHERBORN, MASSACHUSETTS 01901	
DATE: 6-20-04	DESIGNED BY: JLV
CHECKED BY: JLV	
APPROVED BY: JLV	
FOR STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS	

① CONCRETE MASONRY UNIT (CMU) JOINT IN EXISTING MASONRY 1-5/8" EMBEDMENT

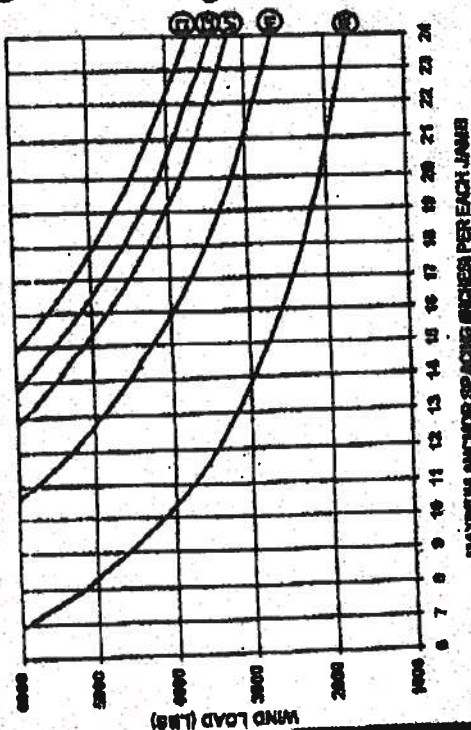
② CONCRETE MASONRY UNIT (CMU) JOINT IN EXISTING MASONRY 1-5/8" EMBEDMENT

③ REINFORCED CONCRETE MASONRY UNIT (CMU) JOINT IN EXISTING MASONRY 1-5/8" EMBEDMENT

④ REINFORCED CONCRETE MASONRY UNIT (CMU) JOINT IN EXISTING MASONRY 1-5/8" EMBEDMENT

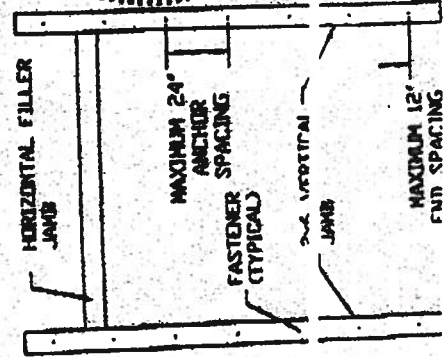
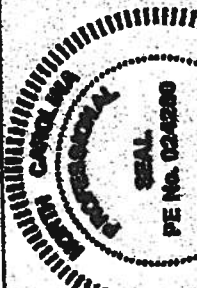
⑤ WOOD STUD MASONRY JOINT IN EXISTING MASONRY 1-5/8" EMBEDMENT

WIND LOAD VS ANCHOR SPACING



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

EXAMPLE:
30 LBS/FT² X 16 FT WIDE X 8 FT HIGH = 3840 LBS
① USE 22" SPACING
② USE 24" SPACING
③ USE 19" SPACING
SEE NOTE #1 FOR ANCHORING REQUIREMENTS FOR WOOD JAMB ANCHORS





Cal-Tech Testing, Inc.

• Engineering
• Geotechnical
• Environmental
Laboratories

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2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 07-00476

DATE TESTED: 9/27/07

DATE REPORTED: 9/28/07

PROJECT:	Sam & Kathy Stormant Residence, Lake City, FL
CLIENT:	Blake Construction Company of North Florida, 291 SW Sisters Welcome Road, #102, Lake City, FL 32025
GENERAL CONTRACTOR:	Blake Construction Company of North Florida
EARTHWORK CONTRACTOR:	Blake Construction Company of North Florida
INSPECTOR:	John O'Steen
ASTM METHOD	SOIL USE
(D-2922) Nuclear	OTHER
SPECIFICATION REQUIREMENTS: 95%	

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft ³)	MOISTURE PERCENT	DRY DENSITY (lb/ft ³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1A	25' West of SE Corner of South Footer	12"	120.7	10.0	109.7	1	111.8	98%
2A	20' North of Center Footer from South Footer	12"	117.9	9.9	107.3	1	111.8	96%
3A	20' South of NW Corner of West Footer	12"	118.8	10.1	107.9	1	111.8	97%
4	Center of Footing	12"	120.2	10.3	109.0	1	111.8	97%

REMARKS:

The Above Tests Meet Specification Requirements.

PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft ³)	OPT. MOIST.	TYPE
1	Dark Brown Fine Sand	111.8	11.4	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Reviewed By:

Linda M. Creamer
President - CEO

Date: 9/28/07
Licensed, Florida No: 57842

ee

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.



Cal-Tech Testing, Inc.

- Engineering
 - Geotechnical
 - Environmental
- Laboratories

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REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 07-00476

DATE TESTED: 9/24/07

DATE REPORTED: 9/25/07

PROJECT:	Sam & Kathy Stormant Residence, Lake City, FL
CLIENT:	Blake Construction Company of North Florida, 291 SW Sisters Welcome Road, #102, Lake City, FL 32025
GENERAL CONTRACTOR:	Blake Construction Company of North Florida
EARTHWORK CONTRACTOR:	Blake Construction Company of North Florida
INSPECTOR:	Pam Gelger
ASTM METHOD	SOIL USE
(D-2922) Nuclear ▼	OTHER ▼
SPECIFICATION REQUIREMENTS: 95%	

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft ³)	MOISTURE PERCENT	DRY DENSITY (lb/ft ³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1	25' West of SE Corner of South Footer	12"	114.3	19.4	95.7	1	111.8	86% *
2	20' North of Center Footer from South Footer	12"	110.6	8.7	101.7	1	111.8	91% *
3	20' South of NW Corner of West Footer	12"	104.6	7.8	97.0	1	111.8	87% *

REMARKS:

* Denotes Failing Density Test. ▼

PROCTORS					
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft ³)	OPT. MOIST.	TYPE	
1	Dark Brown Fine Sand	111.8	11.4	MODIFIED (ASTM D-1557)	▼

Respectfully Submitted,
CAL-TECH TESTING, INC.

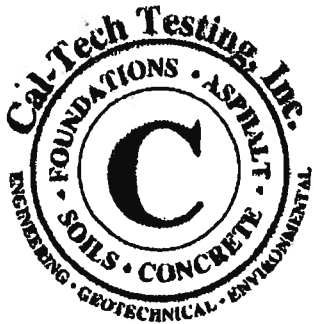
Linda Creamer, CEO, DSE
Linda M. Creamer
President - CEO

The above test's did NOT meet the Specified Requirements.

Reviewed By:

Date: *9/25/07*
Licensed, Florida No: 57842

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

**Cal-Tech Testing, Inc.**

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056

4784 Rosselle Street • Jacksonville, FL 32254

2230 Greensboro Highway • Quincy, FL 32351

LABORATORIES

26224



Tel. (386) 755-3633 • Fax (386) 752-5456

Tel. (904) 381-8901 • Fax (904) 381-8902

Tel. (850) 442-3495 • Fax (850) 442-4008

September 21, 2007

Blake Construction Company of North Florida

291 SW Sisters Welcome Road #102

Lake City, Florida 32025

Mr. Blake Lunde

Reference: Subsurface Exploration
Sam & Kathy Stormant Residence
Lot 2, Cypress Lake Hills Subdivision
Lake City, Columbia County, Florida
Cal-Tech Project No. 07-00474

Dear Mr. Lunde:

Cal-Tech Testing, Inc. (CTI) has completed the subsurface exploration and engineering evaluation for the proposed residence located on Lot 2 of Cypress Lake Hills subdivision in Lake City, Columbia County, Florida. Our work was performed in conjunction with and authorized by you.

Introduction

The purpose of this exploration was to develop information concerning the site and subsurface conditions in order to evaluate site preparation requirements and foundation support alternatives for the proposed residence. This report briefly describes the field activities and presents our findings.

We understand, the proposed construction will include a one- to two-story residence, and a concrete driveway. The construction will consist of a combination of concrete block, brick or Stucco veneer exterior with wood-truss roofing system. Detailed structural loading information has not been provided; however, we assume that bearing wall and individual column loads will not exceed 3 kips per lineal foot and 25 kips, respectively. We assume that soil-supported floor loads (dead load plus live load) will not exceed 125 psf.

Site Conditions

The existing site conditions were observed by our drill crew on September 21, 2007. At the time of our site visit, the ground surface within the construction area was stripped of topsoil and was at or near finished subgrade elevation. The foundation excavation was completed and reinforcing steel was in place. Exposed soils generally consisted of light to dark gray silty fine sand.

Field Program

Our field program consisted of performing two (2) Standard Penetration Test (SPT) borings extending to a depth of 15 feet below the existing ground surface. The borings were performed at the approximate locations indicated on the attached Field Exploration Plan (Figure No. 1).

The sampling and penetration procedures of the Standard Penetration Test (SPT) boring was accomplished in general accordance with ASTM D-1586, using a power rotary drill rig. The SPT boring was performed by driving a standard 1-3/8" I.D. and 2.0" O.D. split spoon sampler with a 140 pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6 inch increments, were recorded. The penetration resistance or "N" value is the summation of the last two 6 inch increments and is illustrated on the attached boring log adjacent to their corresponding depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations.

Subsurface Conditions

In general, the soil profile as disclosed by SPT borings B-1 and B-2 consisted of about 1 to 3 feet of dark gray, silty fine sand (SP-SM) underlain by about 3 to 9 feet of reddish tan, fine sand (SP). This stratum was underlain by about 3 to 11 feet of light gray to tan, clayey fine sand (SC). The sandy soils have a very loose to dense relative density with "N" values ranging from 3 to 18 Blows Per Foot (BPF). These soils have a loose to very dense relative density, with Standard penetration resistance or "N" values of ranging from 4 to exceeding 50 Blows Per Foot (BPF).

For a more detailed description of the subsurface conditions encountered, please refer to the attached Generalized Subsurface Profile (Figure No. 1). Note that the transition between soil types may be gradual and not abrupt as indicated by the boring logs; therefore, the thickness of soil layers should be considered approximate.

Groundwater

The depth to the groundwater was measured at the boring locations at the time of completion of drilling. The groundwater table was not encountered in any of the SPT borings. Due to the relatively short time frame of the field program, the groundwater may not have had sufficient time to stabilize. For a true "stabilized" groundwater level reading, monitoring wells would be required. Fluctuation in groundwater levels in this area should be anticipated due to seasonal climatic conditions, construction activities, rainfall variations, surface water runoff, and other site-specific factors. Since groundwater level variations are anticipated, design drawings and specifications should accommodate such possibilities and construction planning should be based on the assumption that variations will occur.

Discussion and Recommendations

The subject site is considered acceptable for the support of the proposed residence on a conventional shallow foundation system. Provided individual column footings and continuous wall footings bear on compacted acceptable existing soils or newly placed structural fill soils, the shallow foundation may be designed using an allowable net soil bearing pressure of 2,000 psf.

Due to the varying density of the upper soils, it is recommended the exposed subgrade be proofrolled and proofcompacted to a depth of 3 feet below the existing ground surface prior to concrete placement (including bottom of footings and slab areas). This may require the overexcavation and recompaction of the upper 3 feet of the existing soils. Soils should be proofcompacted to a minimum of 95% of the modified Proctor maximum dry density (ASTM D 1557).

The exploration and recommendations are based upon subsurface conditions encountered at a specific locations and time as presented within this report. However, subsurface conditions may exist that differ from our findings. We request that we be notified if dissimilar subsurface conditions are encountered.

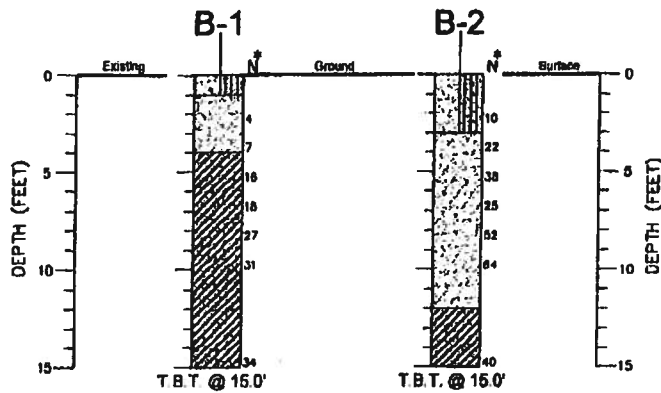
We appreciate the opportunity to be of service on this project and look forward to a continued association. Should you have questions concerning this report or if we may be further service, please contact this office.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer, CEO, DBE

Linda Creamer
President / CEO

Nabil G. Hmeidi
Nabil G. Hmeidi, P.E.
Senior Geotechnical Engineer
Licensed, Florida No. 57842



LEGEND

- Dark gray, silty fine sand (SP-SM)
- Reddish tan, fine sand (SP)
- Light gray to tan, clayey fine sand (SC)

* Standard Penetration Resistance (Blows/ft.)
Measured Using a Manual Hammer System

Groundwater Level Measured at Completion

T.B.T. Test Boring Terminated

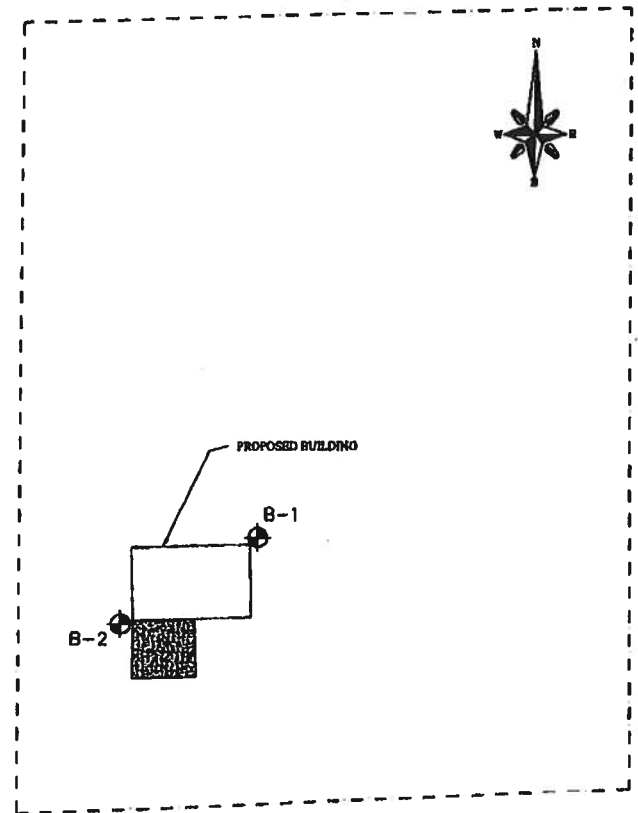
A.B.T. Auger Boring Terminated

20.0' Termination Depth

NOT TO SCALE
NOT FOR CONSTRUCTION

SPT Borings Performed on 09/21/2007

NOTE: Please refer to text of report for additional information relative to groundwater conditions and potential fluctuations which could occur.



SUBSURFACE EXPLORATION
PROPOSED SAM & KATHY STORMWATER RESERVOIR
LOT 2, CYPRUS LAKE HILLS SUBDIVISION
LAKE CITY, COLUMBIA COUNTY, FLORIDA

CAL-TECH TESTING, INC.
P.O. Box 1626
Lake City, Florida 32058-1626
Phone: (386) 768-3633
Fax: (386) 768-6488

FIELD EXPLORATION PLAN
&
GENERALIZED SUBSURFACE PROFILE

Project No. 07-00478	DATE	FIGURE 1
OWNER	APPROVED	SCALE N.T.S.

PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft ³)	OPT. MOIST.	TYPE
		111.8		

COLUMBIA COUNTY OFFICE OF ALTERNATE

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 05-4S-15-00407-102

Building permit No. 000026224

Use Classification SFD, UTILITY

Fire: 51.36

Permit Holder BLAKE LUNDE

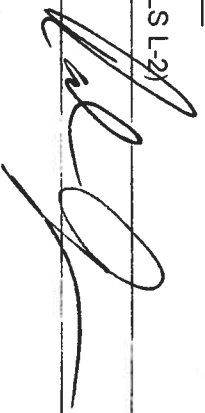
Waste: 134.00

Owner of Building SAM & KATHLEEN STORMANT

Total: 185.36

Location: 2344 SW CYPRESS LAKE TERR(CYPRESS LAKE HILLS L-2)

Date: 02/07/2008



Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

Attn: Webbie

**Columbia County Building Department
Culvert Waiver**

**Culvert Waiver No.
000001450**

DATE: 09/13/2007 BUILDING PERMIT NO. 26224

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP ST LAKE CITY FL 32024

OWNER SAM & KATHLEEN STORMANT PHONE 965-8505

ADDRESS 2344 SW CYPRESS LAKE TERR LAKE CITY FL 32024

CONTRACTOR BLAKE LUNDE PHONE 754-5810

LOCATION OF PROPERTY 90W, TL ON 247S, TL ON CYPRESS LAKE RD, 2ND LOT PAST HORSEWAY
ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CYPRESS LAKE HILLS 2

PARCEL ID # 35-4S-15-00407-102

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

SIGNATURE: [Signature]

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

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

✓ APPROVED NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: _____

SIGNED: [Signature] DATE: 9-19-07

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

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

