Contacted 3-16-06

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0602-85 Date Received 2-23-06 By LH Permit # 1008/24250

Application Approved by - Zoning Official RLK Date 15.03.06 Plans Examiner OK JTH Date 3-15-06

Flood Zone X per survey Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments Section 14.9 Special Family Lot Permit (Brother)

Applicants Name Mark Haddox Phone 755-2411

Address PO Box 3535 LAKE City, FL 32056

Owners Name Rick + Sandy Coulombe Phone 321-724-4783

911 Address 3827 SW Birley Rd LAKE City FL 32024

Contractors Name Woodman Park Builders (William G Wood) Phone 755-8699

Address PO Box 3535 LAKE City, FL 32056

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Mark D. Disosway PE PO Box 868 LAKE City FL 32056

Mortgage Lenders Name & Address First Federal Savings Bank PO Box Q Live Oak, FL 32604

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

Property ID Number 17-4S-16-03051-008 Estimated Cost of Construction 125,000.00

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions Hwy 90 West to 252 Go about 2 1/2 miles to Birley Rd Turn left on Birley Rd go Approx. 1.7 miles

Type of Construction Frame + Brick Number of Existing Dwellings on Property 0

Total Acreage 2 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 95 Side 65 Side 260 Rear 65

Total Building Height 22.6 Number of Stories 1 Heated Floor Area 1509 SQ Roof Pitch 6/12

Porch 292 GARAGE 418 TOTAL 2219

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 COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number CB-C058182

Competency Card Number _____

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL — Brenda Terry, My Commission DD293888, Expires February 24, 2008

Sworn to (or affirmed) and subscribed before me this 17 day of January 20 06.

Personally known ✓ or Produced Identification _____

Brenda Terry
Notary Signature

Mar 13 06 01:00p Woodmen Park 3867558884 p.2

0602.85

755-5942

COLUMBIA COUNTY, FLORIDA
LAND DEVELOPMENT REGULATION ADMINISTRATOR
SPECIAL FAMILY LOT PERMIT APPLICATION

A special family lot permit may be issued by the Land Development Regulation Administrator on land zoned Agricultural or Environmentally Sensitive Area within these land development regulations, for the purpose of conveying a lot or parcel to an individual who is the parent, grandparent, sibling, child or adopted child or grandchild of the person who conveyed the parcel to said individual, not to exceed two (2) dwelling units per one (1) acre and the lot complies with all other conditions from permitting development as set forth in these land development regulations. This provision is intended to promote the perpetuation of the family homestead in rural areas by making it possible for family members to reside on lots, which exceed maximum density for such areas, provided that the lot complies with the following conditions for permitting:

1. The division of lots shall be by recorded separate deed and meet all other applicable land development regulations; and
2. The lot split or subdivision is for the establishment of a homestead of that relative and the lot so conveyed is at least one-half (1/2) acre in size and the remaining lot is at least one-half (1/2) acre in size, and
3. The family lot permit shall only be issued once for each relative of the parent tract owner. However, for purposes of this provision, if a lot is permitted under this provision to a daughter, for example, and was to be returned to the ownership of the owner of the parent tract, then the original use of this provision to provide the lot to the daughter shall not be counted as one of the one permitted per relative.
4. The lot complies with all other conditions for permitting and development as set forth in these land development regulations.

---

1. Name of Recipient Relative (Applicant) Ricky Coulombe
   Address 1613 OAKLAWN AVE City PALM BAY Zip Code 32907
   Phone (321) 724-4787
2. Name of Title Holder(s) DEBRA MORRAOAN
   Address 341 SW ADOBE POINTE LN City LAKE CITY Zip Code 32024
   Phone (386) 755-5942
3. Recipient's Relationship to Title Holder BROTHER
4. Size of Property 2.01 ACRES
5. Tax Parcel ID# _____ (Attach a Copy of the Deed)

No permit will be issued unless the deed is properly recorded in the Clerk of the Courts Office.

I (we) hereby certify that all of the above statements and the statements contained in any papers or plans submitted herewith are true and correct to the best of my (our) knowledge and belief.

Applicants Name (Print or Type)

Ricky Coulombe
Applicant Signature

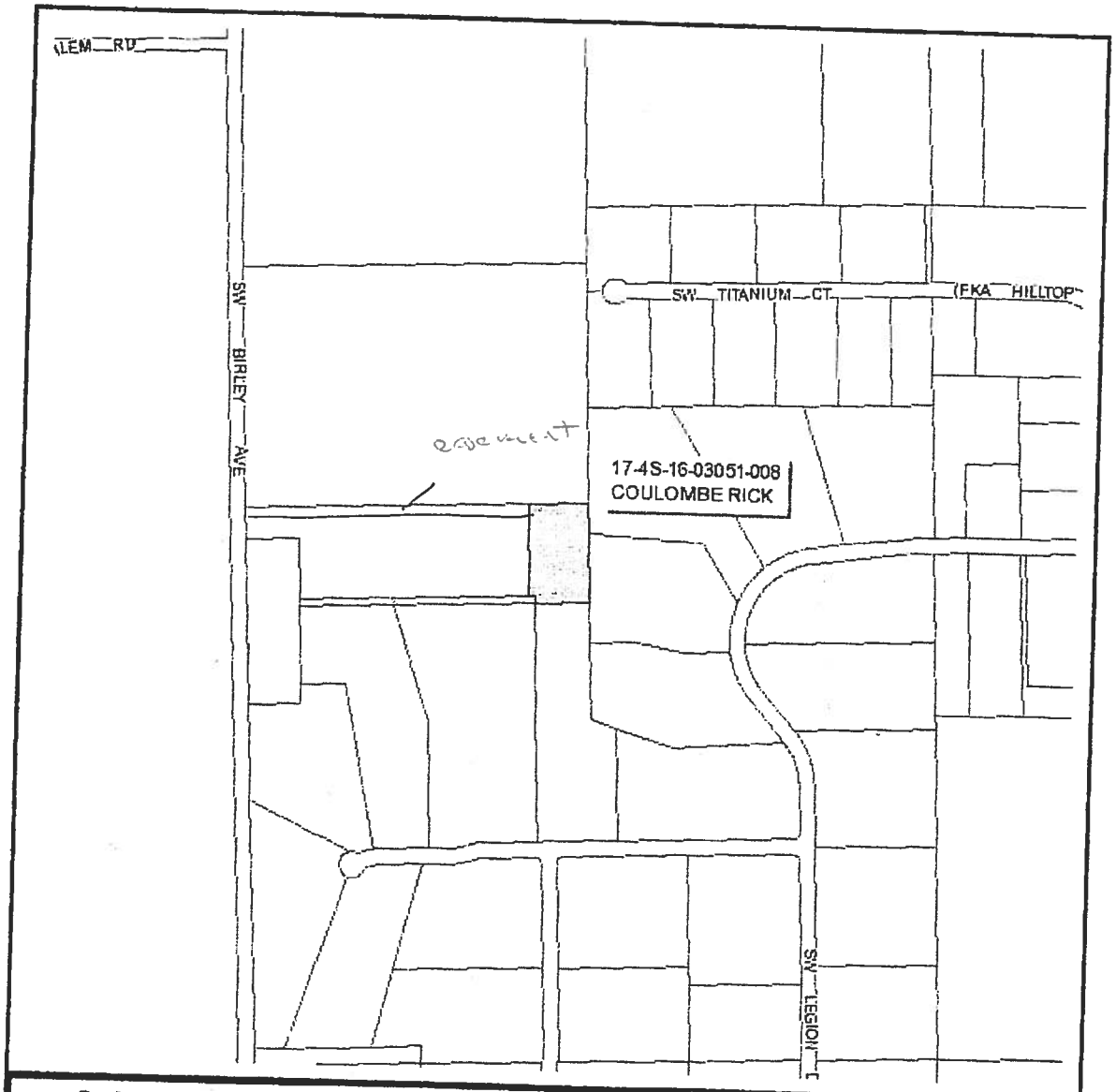
3-13-06
Date

Debra Morrison
3-13-06

OFFICIAL USE

Current Land Use Classification _____ Current Zoning District _____

_____ Approved _____ Denial - Reason _____



Columbia County Property Appraiser

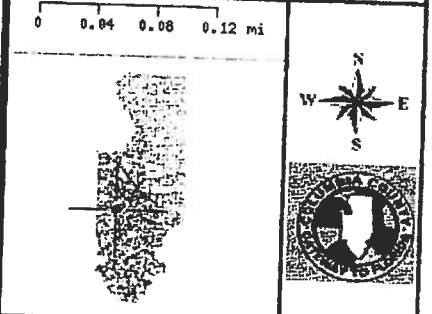
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 17-4S-16-03051-008 - NO AG ACRE (009900)

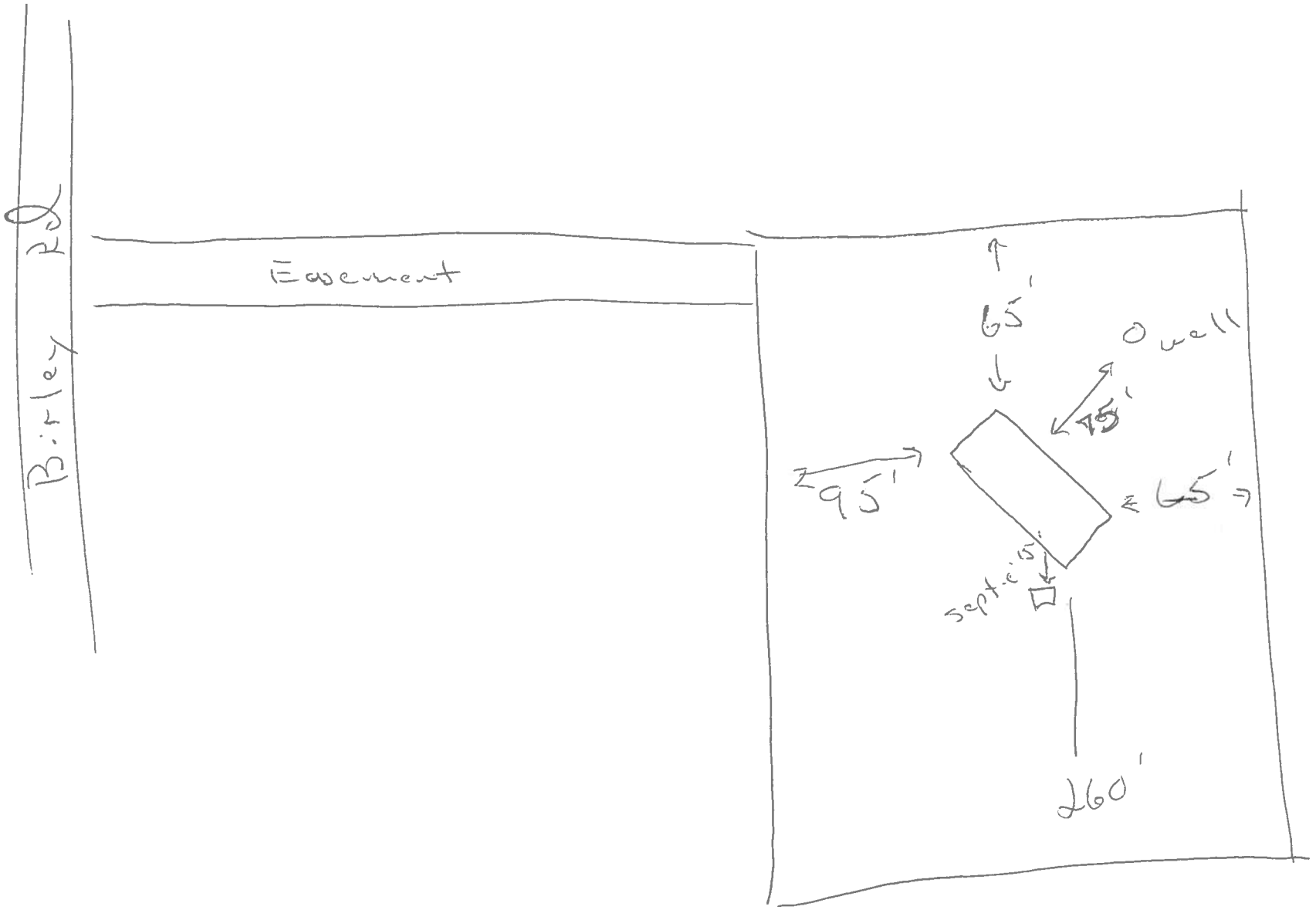
COMM AT NW COR OF NW1/4 OF SE1/4, RUN S 499.50 FT, E 1101.38 FT FOR POB, CONT E

Name: COULOMBE RICK
Site:
Mail: 1613 DALLAM AVE NW PALM BAY, FL 32907
Sales Info 10/3/2005 $100.00 V / U

LandVal	$20,100.00
BldgVal	$0.00
ApprVal	$20,100.00
JustVal	$20,100.00
Assd	$20,100.00
Exmpt	$0.00
Taxable	$20,100.00



This information, GIS Map Updated: 1/9/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

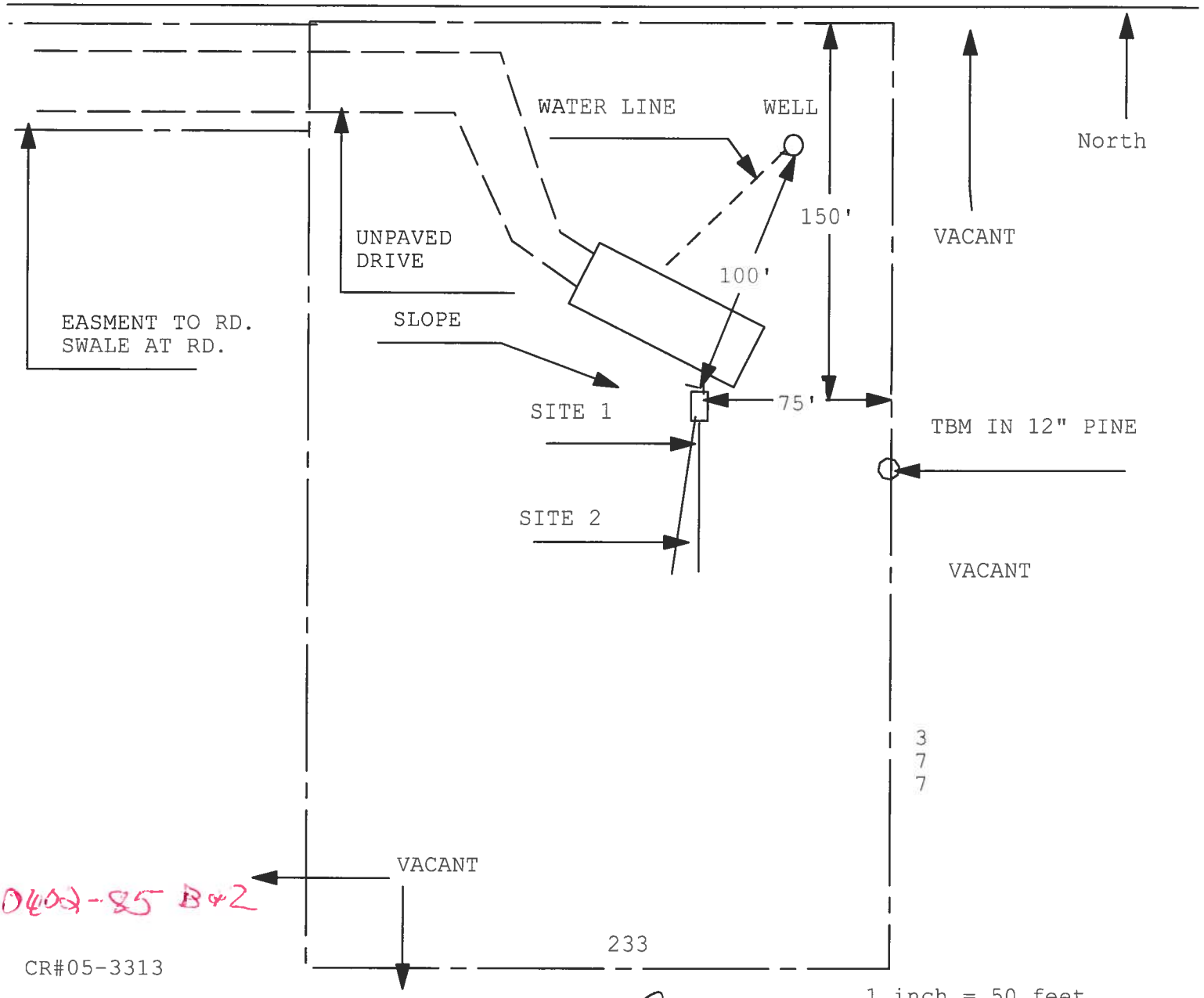

Birley Rd
Easement
65'
well
75'
95'
65'
septic 15'
260'

Permit II 0602.85

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

Permit Application Number: 06-0180N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



0602-85 B#2

Site Plan Submitted By Paul Lloyd **Date** 1/23/06

Plan Approved ✓ **Not Approved** ____ **Date** 2/27/06

By MR S Jr Columbia **CPHU**

Notes: ____

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE ISSUED: 29 December 2005

ENHANCED 9-1-1 ADDRESS:

3827 SW BIRLEY AVE (LAKE CITY, FL 32024)

Addressed Location 911 Phone Number: NOT AVAIL.

OCCUPANT NAME: NOT AVAIL.

OCCUPANT CURRENT MAILING ADDRESS: ____________________

PROPERTY APPRAISER PARCEL NUMBER: 17-4S-16-03051-008

Other Contact Phone Number (If any): ____________________

Building Permit Number (If known): ____________________

Remarks: ____________________

Address Issued By: [signature]
Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

233
377
~~334~~
208

FORM 600A-2004 EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**COLUMBE RESIDENCE**	Builder:	**WOODMAN PARK BUILDER**
Address:		Permitting Office:	**COLUMBIA COUNTY**
City, State:	,	Permit Number:	24250
Owner:	**COLUMBE**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	1509 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 129.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 164.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 135.7(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.2, 1036.5 ft²	
b.	Frame, Wood, Adjacent	R=12.9, 160.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1509.2 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 46.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 36.0 kBtu/hr	
		SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	PTHP	Cap: 36.0 kBtu/hr	
		COP: 3.40	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons	
		EF: 0.93	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	HF,	

Glass/Floor Area: 0.11

Total as-built points: 17682

Total base points: 24040

PASS

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

PREPARED BY: Larry Resmondo a/c

DATE: Feb 15, 2006

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1509.0	20.04	5443.3	Double, Clear	W	8.0	6.0	10.0	38.52	0.47	180.5
				Double, Clear	NE	1.5	4.0	9.0	29.56	0.83	221.3
				Single, Clear	NE	8.0	8.0	35.0	33.55	0.59	687.4
				Double, Clear	S	8.0	6.0	10.0	35.87	0.48	173.7
				Double, Clear	NE	1.5	6.0	30.0	29.56	0.92	816.2
				Double, Clear	SW	1.5	6.0	60.0	40.16	0.89	2132.6
				Double, Clear	SW	8.0	6.0	10.0	40.16	0.44	176.8
				As-Built Total:				**164.0**			**4388.6**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	160.0	0.70	112.0	Frame, Wood, Exterior			13.2	1036.5	1.48		1534.0
Exterior	1036.5	1.70	1762.1	Frame, Wood, Adjacent			12.9	160.0	0.61		96.8
Base Total:	**1196.5**		**1874.1**	**As-Built Total:**				**1196.5**			**1630.8**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	21.0	2.40	50.4	Exterior Wood				21.0	6.10		128.1
Exterior	21.0	6.10	128.1	Adjacent Wood				21.0	2.40		50.4
Base Total:	**42.0**		**178.5**	**As-Built Total:**				**42.0**			**178.5**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	1509.2	1.73	2610.9	Under Attic			30.0	1509.2	1.73 X 1.00		2610.9
Base Total:	**1509.2**		**2610.9**	**As-Built Total:**				**1509.2**			**2610.9**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	135.7(p)	-37.0	-5020.9	Slab-On-Grade Edge Insulation			0.0	135.7(p	-41.20		-5590.8
Raised	0.0	0.00	0.0								
Base Total:			**-5020.9**	**As-Built Total:**				**135.7**			**-5590.8**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1509.0	10.21	15406.9					1509.0	10.21		15406.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 20492.7			**Summer As-Built Points:**					**18624.9**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 36000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			18625	1.00	(1.09 x 1.147 x 0.91)	0.263	0.950	5284.9
20492.7	**0.4266**	**8742.2**	**18624.9**	**1.00**	**1.138**	**0.263**	**0.950**	**5284.9**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1509.0	12.74	3460.4	Double, Clear	W	8.0	6.0	10.0	20.73	1.20	247.7	
				Double, Clear	NE	1.5	4.0	9.0	23.57	1.02	215.5	
				Single, Clear	NE	8.0	8.0	35.0	32.04	1.04	1170.9	
				Double, Clear	S	8.0	6.0	10.0	13.30	3.15	418.5	
				Double, Clear	NE	1.5	6.0	30.0	23.57	1.01	711.5	
				Double, Clear	SW	1.5	6.0	60.0	16.74	1.06	1064.8	
				Double, Clear	SW	8.0	6.0	10.0	16.74	1.75	293.7	
				As-Built Total:				**164.0**			**4122.5**	
WALL TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	160.0	3.60	576.0	Frame, Wood, Exterior			13.2	1036.5	3.36		3482.6	
Exterior	1036.5	3.70	3835.1	Frame, Wood, Adjacent			12.9	160.0	3.32		530.4	
Base Total:	**1196.5**		**4411.1**	**As-Built Total:**				**1196.5**			**4013.0**	
DOOR TYPES	Area X	BWPM	= Points	Type				Area X	WPM	=	Points	
Adjacent	21.0	11.50	241.5	Exterior Wood				21.0	12.30		258.3	
Exterior	21.0	12.30	258.3	Adjacent Wood				21.0	11.50		241.5	
Base Total:	**42.0**		**499.8**	**As-Built Total:**				**42.0**			**499.8**	
CEILING TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1509.2	2.05	3093.9	Under Attic			30.0	1509.2	2.05 X	1.00	3093.9	
Base Total:	**1509.2**		**3093.9**	**As-Built Total:**				**1509.2**			**3093.9**	
FLOOR TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Slab	135.7(p)	8.9	1207.7	Slab-On-Grade Edge Insulation			0.0	135.7(p	18.80		2551.2	
Raised	0.0	0.00	0.0									
Base Total:			**1207.7**	**As-Built Total:**				**135.7**			**2551.2**	
INFILTRATION	Area X	BWPM	= Points					Area X	WPM	=	Points	
	1509.0	-0.59	-890.3					1509.0	-0.59		-890.3	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT						
Winter Base Points:			**11782.6**	**Winter As-Built Points:**						**13390.1**
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: PTHP 36000 btuh ,EFF(3.4) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				13390.1		1.000	(1.069 x 1.169 x 0.93)	0.294	1.000	4577.0
11782.6		**0.6274**	**7392.4**	**13390.1**		**1.00**	**1.162**	**0.294**	**1.000**	**4577.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
8742	**7392**	**7905**	**24040**	**5285**	**4577**	**7820**	**17682**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 88.0

The higher the score, the more efficient the home.

COLUMBE, , , ,

1.	New construction or existing	New		12. Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 36.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	1509 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor:	Description Area		13. Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default) 129.0 ft²		a. PTHP	Cap: 36.0 kBtu/hr
b.	SHGC:				COP: 3.40
	(or Clear or Tint DEFAULT)	7b. (Clear) 164.0 ft²		b. N/A	
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 135.7(p) ft		c. N/A	
b.	N/A				
c.	N/A			14. Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
a.	Frame, Wood, Exterior	R=13.2, 1036.5 ft²			EF: 0.93
b.	Frame, Wood, Adjacent	R=12.9, 160.0 ft²		b. N/A	
c.	N/A				
d.	N/A			c. Conservation credits	
e.	N/A			(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10.	Ceiling types				
a.	Under Attic	R=30.0, 1509.2 ft²		15. HVAC credits	HF,
b.	N/A			(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
c.	N/A				
11.	Ducts				
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 46.0 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 EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

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

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001008

DATE 03/16/2006 PARCEL ID # 17-4S-16-03051-008

APPLICANT MARK HADDOX PHONE 755-2411

ADDRESS PO BOX 3535 LAKE CITY FL 32056

OWNER RICK & SANDY COULOMBE PHONE 321-724-4783

ADDRESS 3827 SW BIRLEY RD LAKE CITY FL 32024

CONTRACTOR WILLIAM WOOD PHONE 755-8699

LOCATION OF PROPERTY 90 W, L PINEMOUNT, L BIRLEY RD, 1.7 MILES

TO EASEMENT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

00RS

MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2555

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
One Premdor Drive
Dickson ,TN 37055

Your application for Notice of Acceptance (NOA) of:
Entergy SE Double Door w/sidelites-Inswing -Opaque-8'0" In a Wood Frame
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-1031.06
EXPIRES: 11/05/2006

Raul Rodriguez
Chief, Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 12/11/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-1031.06

APPROVED: December 11, 2001

EXPIRES: November 5, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews Notice of Acceptance (NOA) No. 00-0720.10, which was issued on November 09, 2000. It renews the approval of a residential insulated steel door, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series **"Entergy" Inswing Opaque Double Residential Insulated Steel Doors(Metal Edge) with Sidelites 8' 0" High - Impact Resistant Door Slab Only** and its components shall be constructed in strict compliance with the following document: Drawing No 31-1034-EM-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Metal Edge) Double Door w/ Sidelites in Wood Frame w/ Bumper Threshold – 8' 0" Height (Inswing)," prepared by manufacturer, dated 6/15/98 and revised on 7/27/01, bearing the Miami-Dade County Product Control renewal stamp with the NOA number and expiration date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door with sidelites, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):
Door Slab: The installation of this unit <u>will not require</u> a hurricane protective system.
Sidelites: The installation of these units <u>will require</u> a hurricane protective system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Raul Rodriguez, Chief
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-1031.06

APPROVED: December 11, 2001

EXPIRES: November 5, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
   b) The product is no longer the same product (identical) as the one originally approved;
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.

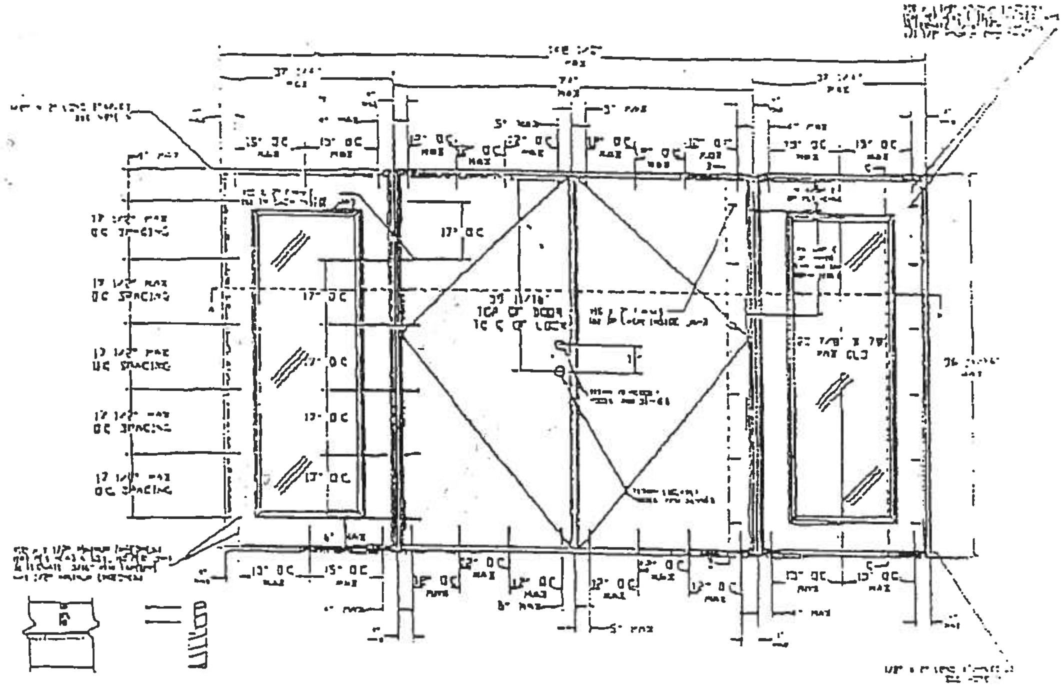
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

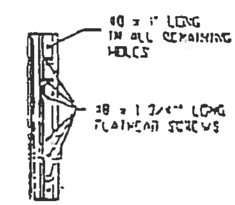
END OF THIS ACCEPTANCE

Raul Rodriguez, Chief
Product Control Division

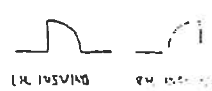
PREMDOR (ENTERGY METAL EDGED) DOUBLE DOOR
WITH SIDELITES IN WOOD FRAMES
WITH BUMPER THRESHOLD-8'0" HEIGHT (INSWING)



ATTACH ASTRAGAL THROUGH BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 2" FLATHEAD SCREWS



ASTRAGAL



NOTES.

1) WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.
A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING
B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK
C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL 1X BY WOOD BUCK.
3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY
4. GLAZED UNIT MUST BE INSTALLED WITH MIAMI-DADE COUNTY APPROVED SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTTED
8. DOORS SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

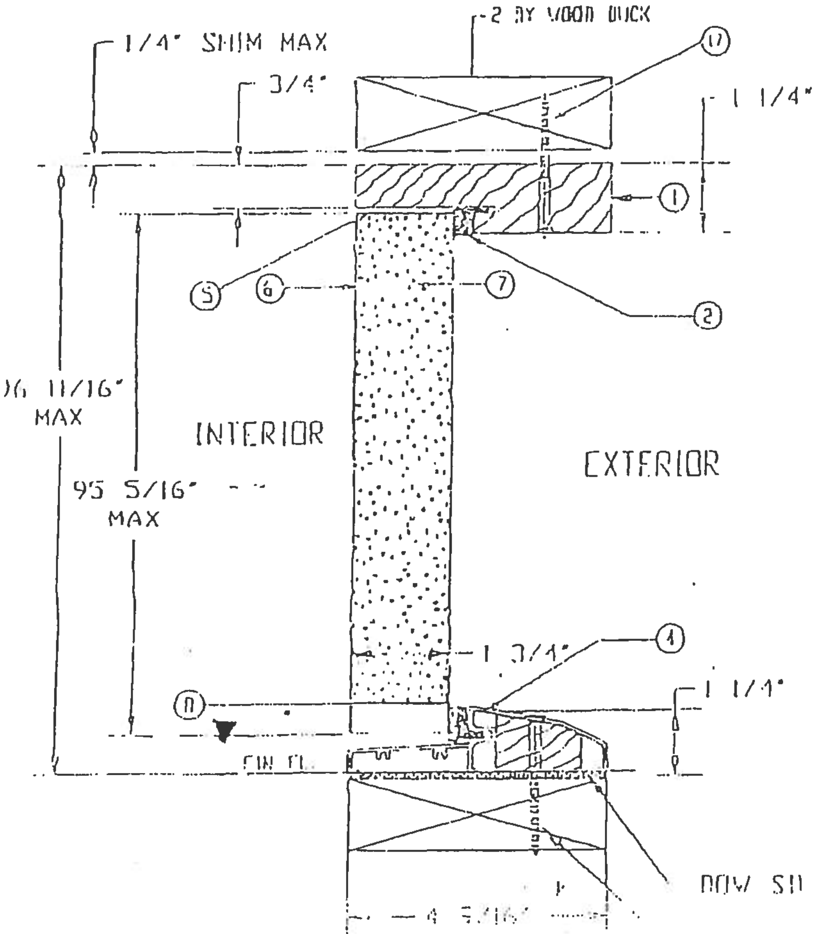
DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED *	+40.0 psf
Negative	NOT APPROVED *	-40.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

PRODUCT RENEWED
ACCEPTANCE No. 01-1031.06
EXPIRATION DATE Nov. 5, 2006
By [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

PREMDOR ENTRY SYSTEMS
01-1034-EM-1
SHEET 1 OF 6
C

SECTION A-A
INSWING
EXTERIOR
OTHER CONFIGURATIONS
GLAZING DETAIL
PRODUCT RENEWED



SECTION B-B

MATERIALS LIST

ITEM NO	DESCRIPTION	PART NUMBER	COMMENTS
1	WOOD HEAD JAMB	CX-14	1 1/4" X 4 9/16" MIN. TO BE PINE OR EQUIVALENT
2	COMPRESSION WEATHERSTRIP	CX-25	LOCKSCREEN BRAND LOKSEAL 9550 (ORIGINAL)
3	ALUMINUM ASTRAGAL	CX-12	PREMDOR BRAND OR EQUIVALENT - 5/8" ALUMINUM ASTRAGAL
4	ALUMINUM-BUMPER THRESHOLD	CX-15	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
5	TOP CHANNEL	CX-08	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
6	STEEL SKIN	[illegible]	[illegible]
7	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs/ft³	
8	BOTTOM CHANNEL	CX-07	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
9	WOOD LOCK BLOCK	CX-05	[illegible] X 1 1/2" MIN. TO BE PINE OR EQUIVALENT
10	STRIKE STILE	CX-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
11	HINGE STILE	CX-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
12	LOCK PREP FILLER PLATE	CX-13	PREMDOR BRAND - .050" THICK [illegible]
13	4"x4" HINGE	CX-15	HAGER BRAND HINGE OR EQUIVALENT .097 THICK (STEEL)
14	WOOD HINGE JAMB	CX-11	1 1/4" X 4 9/16" MIN. TO BE PINE OR EQUIVALENT
15	#10-24 x 1/2" F.H.M.S.		(4) SCREWS PER HINGE INTO DOOR
16	#10 X 2" F.H.W.S.		[illegible]
17	[illegible]		REFER TO ELEVATION VIEW, FOR # OF SCREWS EACH AND LOCATION
18	#10 X 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
19	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
20	LOCKSET		TITAN LOCK 720 SERIES, TITAN DEADBOLT 700 SERIES
21	#10 X 1 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
22	WOOD SIDELITE JAMB	CX-10	1 1/4" X 4 9/16" MIN. TO BE PINE OR EQUIVALENT
23	22" X 80" SINGLE PANEL GLASS	CX-19	TEMPERED GLASS IN POLYPROPYLENE FRAME [illegible] 1/8" CLEAR TEMPERED GLASS
24	SIDELITE TRIM (WOOD)	CX-20	5/16 x 1/2" MIN. TO BE PINE OR EQUIVALENT
25	WOOD CASING	CX-21	[illegible]
26	WOOD SIDELITE HEAD JAMB	CX-22	1 1/4" X 4 9/16" MIN. TO BE PINE OR EQUIVALENT
27	WOOD SIDELITE BASE	CX-23	1 1/4" X 4 9/16" MIN. TO BE PINE OR EQUIVALENT
28	POLYPROPYLENE LITE FRAME	[illegible]	HP Polypropylene by ODL
29	#6 X 1 1/2" PAN HEAD SCREWS		10 PER FRAME [illegible]
30	SIDELITE STILES	CX-26	15/16" X 1 11/16" MIN. TO BE PINE OR EQUIVALENT
31	PIN NAIL		[illegible]

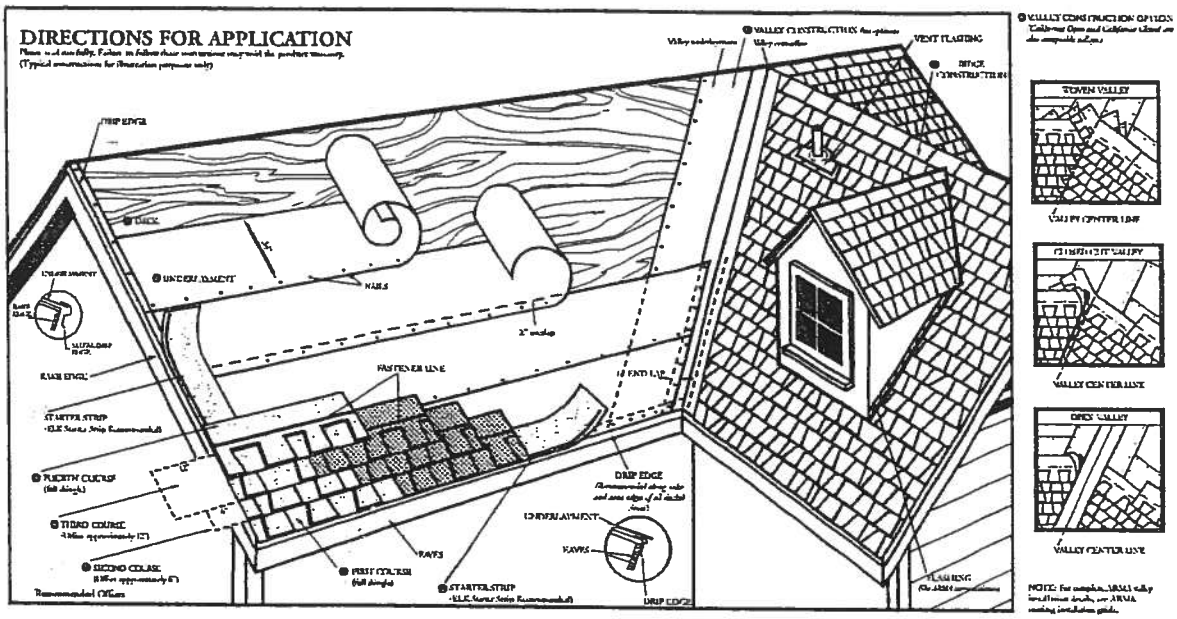
D	DADE COUNTY MODIFICATIONS	[illegible]	JM
C	WOOD TEST RESULTS	[illegible]	RS
B	[illegible]	[illegible]	RS
A	REDRAWN	[illegible]	RS

PRODUCT RENEWED
[illegible] 06
EXPIRATION DATE [illegible]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1034-EM 1
SHEET 3 OF 6

PRODUCT RENEWED
LUTHER DOOR PANEL STYLES
LUTHER SIDELITE STYLES
36" MAX
36" MAX



DIRECTIONS FOR APPLICATION

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

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

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

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

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

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

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

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

❸ STARTER SHINGLE COURSE

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

❹ FIRST COURSE

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

❺ SECOND COURSE

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

❻ THIRD COURSE

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

❼ FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES.

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

❽ VALLEY CONSTRUCTION

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

❾ RIDGE CONSTRUCTION

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

FASTENERS

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

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

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

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

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

MANSARD APPLICATIONS

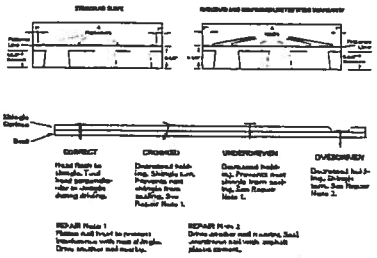
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only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

LIMITED WIND WARRANTY

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

HELP STOP BLOW-OFFS AND CALL-BACKS

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



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.

All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

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

ELK
The Premium Choice
www.elkcorp.com

ATTN: 3 PAGES
JIMMY 4 GARAGE

Anthony 24F Power Beam®

Design Properties

24F POWER BEAM® Design Properties

Allowable Design Stresses (psi)

Flexural Stress F_b*	Tension Parallel to Grain F_t	Compression Perpendicular to Grain $F_{c\perp}$	Horizontal Shear F_v	Modulus of Elasticity MOE
2400	1150	740	240	1,800,000

*For nominal 12" depths. For other depths:

$C_v = K_L[(21/L)^{1/8} \times (12/d)^{1/9} \times (5.125/b)^{1/9}] \leq 1.0$

L = length of member between points of zero moment, ft.

d = depth, of bending member, inches.

b = width, inches for full width members.

K_L = loading coefficient.

	K_L
SINGLE SPAN BEAM:	
Concentrated load at mid span	1.09
Uniformly distributed loads	1.0
Two equal concentrated loads at 1/3 points of span	0.96
CONTINUOUS BEAM OR CANTILEVER:	
All loading conditions	1.0

POWER BEAM® Section Properties

3-1/8" POWER BEAM®

Design Property	STANDARD DEPTHS (in inches)							
	8¼	9½	11	12¾	13¾	15¼	16½	17¼
Area (in.²)	26	30	34	39	43	47	52	56
Section Modulus(in.³)	35	48	63	80	98	119	142	166
Moment of Inertia(in.⁴)	146	232	347	494	677	901	1,170	1,487
Weight (lbs/LF)	6.8	7.9	9.1	10.2	11.3	12.5	13.6	14.8

5-1/8" POWER BEAM®

Design Property	STANDARD DEPTHS (in inches)									
	11	12¾	13¾	15 ¼	16½	17¼	19¼	20¾	22	23¾
Area (in.²)	56	63	70	78	85	92	99	106	113	120
Section Modulus(in.³)	103	131	161	195	233	273	317	363	413	467
Moment of Inertia(in.⁴)	568	809	1110	1478	1919	2439	3047	3747	4548	5455
Weight (lbs/LF)	14.9	16.7	18.6	20.5	22.3	24.2	26.1	27.9	29.8	31.6

3-1/2" POWER BEAM®

Design Property	STANDARD DEPTHS (in inches)							
	8¼	9½	11	12¾	13¾	15 ¼	16½	17¼
Area (in.²)	29	34	39	45	48	53	58	63
Section Modulus(in.³)	40	54	71	89	110	133	159	186
Moment of Inertia(in.⁴)	164	260	388	553	758	1009	1310	1666
Weight (lbs/LF)	7.6	8.9	10.2	11.4	12.7	14	15.3	16.5

5-1/2" POWER BEAM®

Design Property	STANDARD DEPTHS (in inches)									
	11	12¾	13¾	15 ¼	16½	17¼	19¼	20¾	22	23¾
Area (in.²)	61	68	76	83	91	98	106	113	121	129
Section Modulus(in.³)	111	140	173	210	250	293	340	390	444	503
Moment of Inertia(in.⁴)	610	869	1191	1586	2059	2618	3269	4021	4880	5854
Weight (lbs/LF)	16	18	20	22	24	26	28	30	32	34

6-3/4" POWER BEAM®

Design Property	STANDARD DEPTHS (in inches)															
	8¼	9¼	11	12¾	13¾	15 ¼	16½	17¼	19 ¼	20 ¼	22	23½	24 ½	26 ¼	27 ¼	28 ½
Area (in.²)	56	65	74	84	93	102	111	121	130	139	149	158	167	176	187	195
Section Modulus(in.³)	77	104	136	172	213	257	306	359	417	479	545	615	689	768	866	938
Moment of Inertia(in.⁴)	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7186	8528	10030	12020	13542
Weight (lbs/LF)	14.7	17.1	19.6	22.0	24.5	26.9	29.4	31.8	34.3	36.7	39.2	41.6	44.1	46.5	49.4	51.4

Anthony 24F Power Beam®

Allowable Floor Load Tables LDF=1.0

3-1/8" & 5-1/8" Widths - Standard Depths

Key - for each clear span there are three numbers:
Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240
Row 2: Maximum Live Load limited by deflection of L/360
Row 3: Required Bearing Length in trimmer thickness
(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header. Codes do allow live load reductions. See appropriate code sections.

Allowable Loads For Anthony Power Beam (in Pounds per Lineal Foot)

3 1/8"

Actual Span	Depth (in.) 8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8
6'	1509	2136	2631	3132	3696	4335	5063	5902
	1509	2136	2631	3132	3696	4335	5063	5902
	3	3	4.5	4.5	6	7.5	7.5	9
7'	1151	1567	2049	2498	2909	3364	3868	4430
	1137	1567	2049	2498	2909	3364	3868	4430
	3	3	4.5	4.5	6	6	7.5	7.5
8'	879	1198	1566	1984	2397	2748	3129	3545
	762	1198	1566	1984	2397	2748	3129	3545
	3	3	3	4.5	4.5	6	6	7.5
9'	693	945	1236	1565	1933	2322	2626	2954
	535	849	1236	1565	1933	2322	2626	2954
	1.5	3	3	4.5	4.5	6	6	7.5
10'	560	764	999	1266	1564	1894	2255	2531
	390	619	924	1266	1564	1894	2255	2531
	1.5	3	3	3	4.5	4.5	6	6
11'	432	630	824	1044	1290	1563	1861	2185
	293	445	694	989	1290	1563	1861	2185
	1.5	3	3	3	4.5	4.5	6	6
12'	332	528	691	976	1082	1311	1562	1834
	226	338	535	762	1045	1311	1562	1834
	1.5	1.5	3	3	3	4.5	4.5	6
13'	259	415	587	745	921	1115	1328	1560
	177	282	421	599	822	1094	1328	1560
	1.5	1.5	3	3	3	4.5	4.5	6
14'	206	330	496	641	792	950	1144	1343
	142	226	337	480	658	876	1137	1343
	1.5	1.5	3	3	3	3	4.5	4.5
15'	166	287	401	557	689	834	994	1168
	116	183	278	390	535	712	924	1168
	1.5	1.5	1.5	3	3	3	4.5	4.5
16'	136	219	329	471	604	732	872	1023
	95	151	226	321	441	587	762	968
	1.5	1.5	1.5	3	3	3	4.5	4.5
17'	112	181	273	391	534	647	771	906
	79	126	188	268	367	485	635	807
	1.5	1.5	1.5	1.5	3	3	3	4.5
18'	93	151	228	328	453	576	686	807
	67	106	158	226	310	412	535	680
	1.5	1.5	1.5	1.5	3	3	3	4.5
19'	78	127	193	277	383	513	614	722
	57	90	135	192	263	350	455	578
	1.5	1.5	1.5	1.5	3	3	3	4.5
20'	66	108	164	236	327	438	535	631
	49	77	116	165	226	300	390	496
	1.5	1.5	1.5	1.5	1.5	3	3	3
21'	56	92	140	203	281	376	491	589
	42	67	100	142	195	259	337	428
	1.5	1.5	1.5	1.5	1.5	3	3	3
22'	48	79	121	175	243	326	425	533
	37	58	87	124	170	226	293	372
	1.5	1.5	1.5	1.5	1.5	3	3	3
23'	41	68	105	152	211	285	371	474
	32	51	76	108	148	197	256	328
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
24'	35	59	91	132	184	248	323	415
	28	45	67	95	131	174	226	287
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
25'	30	51	79	116	162	218	286	366
	25	40	59	84	116	154	200	254
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
26'	26	45	70	102	142	192	252	321
	22	35	53	75	103	137	177	226
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3
27'	23	39	61	90	126	170	224	287
	20	31	47	67	92	122	158	202
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3
28'	20	34	54	79	112	151	199	256
	18	28	42	60	82	109	142	181
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3
29'	17	30	48	70	99	135	178	229
	16	25	38	54	74	99	128	163
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
30'	15	26	42	63	89	121	159	205
	14	23	34	49	67	89	116	147
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
32'	11	20	33	50	71	97	129	166
	11	19	28	40	55	73	95	121
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

5 1/8"

Actual Span	Depth (in.) 11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8
6'	4314	5137	6062	7109	8303	9679	11282	13171	15432	18186
	4314	5137	6062	7109	8303	9679	11282	13171	15432	18186
	4.5	4.5	6	7.5	7.5	9	10.5	12	15	18
7'	3360	4093	4770	5517	6344	7266	8299	9466	10793	12317
	3360	4093	4770	5517	6344	7266	8299	9466	10793	12317
	4.5	4.5	6	6	7.5	7.5	9	10.5	12	13.5
8'	2569	3233	3931	4506	5131	5814	6562	7385	8298	9308
	2569	3233	3931	4506	5131	5814	6562	7385	8298	9308
	3	4.5	4.5	6	6	7.5	7.5	9	10.5	12
9'	2026	2567	3171	3807	4307	4844	5424	6052	6734	7478
	2026	2567	3171	3807	4307	4844	5424	6052	6734	7478
	3	4.5	4.5	6	6	7.5	7.5	9	9	10.5
10'	1638	2076	2565	3105	3698	4151	4622	5126	5666	6248
	1516	2076	2565	3105	3698	4151	4622	5126	5666	6248
	3	3	4.5	4.5	6	6	7.5	7.5	9	9
11'	1351	1713	2116	2563	3052	3584	4025	4444	4889	5364
	1139	1622	2116	2563	3052	3584	4025	4444	4889	5364
	3	3	4.5	4.5	6	6	7.5	7.5	7.5	9
12'	1133	1436	1775	2150	2561	3008	3490	3922	4299	4698
	877	1249	1713	2150	2561	3008	3490	3922	4299	4698
	3	3	3	4.5	4.5	6	6	7.5	7.5	9
13'	967	1221	1510	1829	2179	2559	2970	3401	3835	4178
	690	982	1348	1794	2179	2559	2970	3401	3835	4178
	3	3	3	4.5	4.5	6	6	7.5	7.5	7.5
14'	813	1051	1299	1574	1875	2203	2548	2917	3311	3728
	552	787	1079	1436	1864	2203	2548	2917	3311	3728
	3	3	3	3	4.5	4.5	6	6	7.5	7.5
15'	658	913	1129	1369	1631	1910	2209	2529	2870	3232
	449	640	877	1168	1516	1910	2209	2529	2870	3232
	1.5	3	3	3	4.5	4.5	4.5	6	6	7.5
16'	540	773	990	1200	1427	1670	1932	2212	2510	2827
	370	527	723	962	1249	1588	1932	2212	2510	2827
	1.5	3	3	3	4.5	4.5	4.5	6	6	7.5
17'	448	642	873	1060	1258	1472	1703	1950	2214	2493
	309	439	603	802	1081	1324	1654	1950	2214	2493
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6
18'	375	538	742	940	1116	1307	1512	1751	1965	2214
	260	370	508	676	877	1115	1393	1713	1965	2214
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6
19'	316	455	628	839	997	1167	1350	1547	1756	1978
	221	315	432	573	746	948	1184	1457	1756	1978
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	6
20'	269	388	536	718	895	1048	1213	1389	1578	1778
	189	270	370	493	640	813	1016	1249	1516	1778
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6
21'	230	332	460	617	806	946	1095	1254	1425	1605
	164	233	320	420	552	702	877	1079	1309	1571
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6
22'	198	287	398	534	698	858	993	1138	1292	1456
	143	203	278	370	480	611	763	938	1139	1366
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
23'	172	249	346	465	608	777	904	1036	1177	1327
	125	177	243	324	420	535	668	821	997	1198
	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5
24'	149	217	302	407	532	681	826	947	1076	1213
	110	156	214	285	370	471	588	723	877	1052
	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5
25'	130	190	265	357	468	600	733	869	987	1113
	97	138	189	252	327	416	520	640	776	931
	1.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5
26'	114	167	234	315	414	530	667	800	909	1025
	86	123	168	224	291	370	462	569	690	828
	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5
27'	100	147	207	279	367	471	592	733	834	946
	77	110	150	200	260	330	413	508	616	739
	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5
28'	88	130	183	248	327	420	528	654	776	876
	69	98	135	180	233	296	370	455	552	663
	1.5	1.5	1.5	1.5	1.5	3	3	3	3	4.5
29'	78	116	163	221	292	375	473	586	715	813
	62	88	121	162	210	267	333	410	497	598
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5
30'	69	103	145	198	261	337	425	526	643	756
	56	80	110	146	189	241	301	370	449	539
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5
32'	54	82	116	159	211	273	343	429	525	633
	46	66	90	120	156	199	248	305	370	444
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3

Allowable Roof Load Tables LDF = 1.25

3-1/8" & 5-1/8" Widths - Standard Depths

Key - for each clear span there are three numbers:
Row 1: Maximum Total Load with LDF of 1.25, and deflection limited to L/180
Row 2: Maximum Live Load limited by deflection of L/240
Row 3: Required Bearing Length in trimmer thickness (e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header.

Actual Span	3 1/8" Depth (in.)								5 1/8" Depth (in.)								
	9 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	11	12 3/8	13 3/4	13 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8
6'	1962	2672	3291	3918	4623	5421	6332	7381	5397	6426	7582	8891	10385	12106	14109	16471	19298	22741
	1962	2672	3291	3918	4623	5421	6332	7381	5397	6426	7582	8891	10385	12106	14109	16471	19298	22741
	3	4.5	6	6	7.5	9	10.5	12	6	6	7.5	9	10.5	12	13.5	16.5	19.5	24
7'	1440	1961	2563	3122	3639	4208	4839	5542	4203	5121	5968	6901	7936	9089	10381	11840	13499	15404
	1440	1961	2563	3122	3639	4208	4839	5542	4203	5121	5968	6901	7936	9089	10381	11840	13499	15404
	3	4.5	4.5	6	6	7.5	9	10.5	4.5	6	6	7.5	9	10.5	12	13.5	15	18
8'	1101	1500	1960	2482	2999	3438	3915	4435	3215	4071	4919	5638	6420	7274	8209	9238	10377	11643
	1101	1500	1960	2482	2999	3438	3915	4435	3215	4071	4919	5638	6420	7274	8209	9238	10377	11643
	3	3	4.5	4.5	6	7.5	7.5	9	4.5	4.5	6	7.5	7.5	9	10.5	12	13.5	15
9'	868	1183	1547	1959	2420	2905	3286	3696	2537	3213	3968	4765	5389	6061	6787	7572	8426	9356
	802	1183	1547	1959	2420	2905	3286	3696	2537	3213	3968	4765	5389	6061	6787	7572	8426	9356
	3	3	4.5	4.5	6	6	7.5	9	4.5	4.5	6	6	7.5	9	9	10.5	12	13.5
10'	702	957	1251	1585	1958	2370	2822	3167	2052	2599	3211	3887	4628	5194	5784	6414	7091	7818
	585	929	1251	1585	1958	2370	2822	3167	2052	2599	3211	3887	4628	5194	5784	6414	7091	7818
	3	3	3	4.5	4.5	6	7.5	7.5	3	4.5	4.5	6	7.5	7.5	9	10.5	10.5	12
11'	579	789	1032	1308	1616	1957	2330	2736	1693	2145	2650	3209	3821	4486	5038	5562	6119	6713
	429	698	1032	1308	1616	1957	2330	2736	1693	2145	2650	3209	3821	4486	5038	5562	6119	6713
	1.5	3	3	4.5	4.5	6	6	7.5	3	4.5	4.5	6	6	7.5	9	9	10.5	10.5
12'	444	662	886	1097	1356	1642	1955	2296	1420	1800	2224	2693	3207	3766	4369	4909	5381	5880
	338	528	802	1097	1356	1642	1955	2296	1316	1800	2224	2693	3207	3766	4369	4909	5381	5880
	1.5	3	3	3	4.5	4.5	6	7.5	3	3	4.5	4.5	6	7.5	7.5	9	10.5	10.5
13'	348	556	736	933	1154	1397	1664	1954	1208	1531	1892	2291	2729	3205	3719	4258	4802	5231
	266	421	631	899	1154	1397	1664	1954	1035	1474	1892	2291	2729	3205	3719	4258	4802	5231
	1.5	3	3	3	4.5	4.5	6	6	3	3	4.5	4.5	6	6	7.5	9	9	10.5
14'	277	443	634	803	993	1203	1433	1683	1039	1318	1629	1973	2350	2760	3192	3654	4146	4668
	213	338	505	719	987	1203	1433	1683	829	1180	1618	1973	2350	2760	3192	3654	4146	4668
	1.5	1.5	3	3	4.5	4.5	4.5	6	3	3	4.5	4.5	4.5	6	7.5	7.5	9	10.5
15'	224	359	538	699	864	1046	1246	1464	883	1146	1416	1716	2044	2394	2768	3168	3595	4048
	173	275	411	585	802	1046	1246	1464	674	959	1316	1716	2044	2394	2768	3168	3595	4048
	1.5	1.5	3	3	3	4.5	4.5	6	3	3	3	4.5	4.5	6	6	7.5	7.5	9
16'	183	294	442	613	758	918	1094	1285	725	1005	1243	1506	1790	2094	2421	2772	3146	3542
	143	227	338	482	661	860	1094	1285	555	790	1084	1443	1790	2094	2421	2772	3146	3542
	1.5	1.5	3	3	3	4.5	4.5	6	3	3	3	4.5	4.5	6	6	7.5	7.5	9
17'	152	244	367	525	670	812	967	1137	602	841	1098	1330	1578	1846	2135	2445	2775	3125
	119	189	282	402	551	734	932	1137	463	659	904	1203	1562	1846	2135	2445	2775	3125
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5
18'	127	204	308	441	586	723	861	1012	505	723	978	1181	1401	1639	1896	2171	2464	2776
	100	159	238	338	464	618	802	1012	390	555	761	1014	1316	1639	1896	2171	2464	2776
	1.5	1.5	1.5	3	3	3	4.5	4.5	1.5	3	3	3	4.5	4.5	6	6	7.5	7.5
19'	107	172	260	373	515	647	772	907	427	612	841	1054	1251	1463	1695	1940	2203	2481
	85	135	202	288	395	525	682	867	332	472	647	862	1119	1422	1695	1940	2203	2481
	1.5	1.5	1.5	3	3	3	4.5	4.5	1.5	3	3	3	4.5	4.5	4.5	6	6	7.5
20'	91	147	222	319	440	583	695	817	364	522	721	947	1134	1316	1523	1744	1980	2230
	73	116	173	247	338	451	585	744	284	405	555	739	959	1220	1523	1744	1980	2230
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	1.5	1.5	3	3	4.5	4.5	4.5	6	7.5	7.5
21'	77	126	191	274	378	506	639	749	312	449	620	820	1015	1189	1375	1575	1788	2015
	63	100	151	213	292	389	505	642	246	350	480	638	829	1054	1316	1575	1788	2015
	1.5	1.5	1.5	1.5	3	3	3	4.5	1.5	1.5	3	3	3	4.5	4.5	6	6	6
22'	66	108	164	237	327	439	572	673	269	388	537	719	921	1078	1248	1429	1623	1829
	53	87	130	185	254	338	439	559	214	304	417	555	721	916	1144	1408	1623	1829
	1.5	1.5	1.5	1.5	3	3	3	4.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6
23'	57	94	143	206	285	382	499	614	234	338	468	627	818	982	1137	1302	1479	1666
	48	76	114	162	223	296	385	489	187	266	365	486	631	802	1002	1232	1479	1666
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6
24'	49	81	124	180	250	335	437	539	204	295	409	549	717	888	1040	1191	1353	1525
	42	67	100	143	196	261	338	430	164	234	321	428	555	706	882	1084	1316	1525
	1.5	1.5	1.5	1.5	1.5	3	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6
25'	43	71	109	158	219	295	385	491	179	259	360	483	632	808	954	1093	1242	1400
	37	59	89	126	173	231	299	381	146	207	284	378	491	624	780	959	1164	1396
	1.5	1.5	1.5	1.5	1.5	3	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6
26'	37	62	96	139	194	261	341	436	157	228	318	427	559	715	878	1007	1143	1289
	33	51	78	112	154	205	266	338	129	184	253	336	437	555	693	853	1035	1241
	1.5	1.5	1.5	1.5	1.5	3	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5
27'	33	55	85	123	172	231	303	388	139	202	282	379	497	636	799	979	1056	1191
	30	47	70	100	138	185	238	302	116	164	226	300	391	496	619	761	924	1109
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5
28'	29	48	75	109	153	206	270	346	123	179	251	338	443	568	713	861	978	1031
	27	42	63	90	123	164	213	271	104	147	202	269	350	444	555	683	829	994
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5
29'	25	43	66	97	136	184	242	310	109	160	224	302	397	509	639	791	908	1024
	24	38	57	81	111	148	192	244	93	133	182	242	315	400	500	615	746	895
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5
30'	22	38	58	87	122	165	217	279	99	143	200	271	356	457	575	712	845	955
	22	34	51	73	100	133	173	220	84	120	161	218	284	361	451	555	674	808
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5
32'	17	30	47	70	99	134	176	227	77	115	162	220	289	372	469	581	710	831
	17	28	42	60	83	110	143	182	69	99	136	180	234	298	372	457	555	666
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5

MASTER

AMTROL INC.

WEL-FLO®

Pre-pressurized Water System Tanks

- Proven Diaphragm Design
- Tough Gloss Finish
- Sizes from 14 to 119 Gallons
- Outstanding Value

NEW Home Const ONly

Pump and Tank Code
Section 613
Well Pumps and Tanks used for private potable water systems
~~July 1, 2001~~ March 1, 2002

613.1 Pumps. Well pumps used for potable water shall comply with sections 613.1.1 and 613.1.2
613.1.1 Pump Installation. Pumps shall be installed for operation without re-priming or breaking suction. Pumps shall be connected to the well head by means of a union, companion flange or compression coupling in such a manner that it is accessible for maintenance, repair and, removal.
613.1.2 Pump Sizing. Minimum pump size shall be determined by table 613.1.

Table 613.1
Minimum Private Potable Water System Pump Size

	Bathrooms in Home				
	1	1 ½	2-2 ½	3-4	5-6
Minimum Pump Size	7gpm	10gpm	14gpm	17gpm	21gpm

Notes:
1. Values given are average and do not include high and low extremes
2. Installations over 6 bathrooms shall be approved by the code official

613.2 Pressure Tanks. Tanks relying on expansion of a flexible membrane within a restricting container, or tanks with direct water- to- air interface to provide pressure in the water system shall be used. All pressure tanks for storing potable water under pressure, including those having an airspace for pressure for expansion shall be identified by seal, label, or plate indicating the manufacturer's name and model number and shall meet the following specifications:

1. Pressure tank drawdown shall be a minimum of 1 gallon for every gallon produced by the pump (Example: 20 gallon per minute pump will require a draw of 20 gallons usable). Exceptions: Pump start applications, constant pressure devices and variable speed pumps.
2. Pressure tanks must be constructed of steel, fiberglass, or comparable materials. Tanks to be buried shall have a minimum wall thickness of ¼ inch and be built by the manufacture specifically for underground use. Fiberglass or other non-metallic tanks to be buried shall have the structural strength to prevent collapse.

613.3 Piping. Piping associated with well pumps and tanks shall comply with Sections 613.3.1 through 613.3.

613.3.1 Drop Pipe. The Drop pipe from the submersible pump to the first fitting past the well seal shall be either galvanized steel, stainless steel, or PVC Schedule 80 threaded/coupled or lock joint pipe. The drop pipe for a single (pipe) jet pump shall be either galvanized steel, or stainless steel. The drop pipe for a double (pipe) jet shall be galvanized steel, stainless steel on the suction side and/or minimum PVC Schedule 40 on the pressure side.

613.3.2 Pump Discharge pipe sizing. For submersible pumps, pipe size shall be equal to the pump discharge. Piping for all other types of pumps shall be sized in accordance to the manufacturers' specifications.

613.3.3 Pressure Tank Pipe Sizing. Piping size for the offset of the pressure tank shall use the piping friction loss charts for the piping material used.

613.4 Electrical wiring. All wiring shall be installed in accordance with chapter 27 of the Florida Building code and NFPA 70.

613.5 Disinfection. The pump installer shall disinfect any potable well and water system in accordance with Section 610.

613.6 Valves. A pressure relief valve shall be installed on any pumping system that can produce pressures of 75 psi or greater. A check valve shall be installed at the well head of submersible pumps.

* Cycle STOP VALVE'S ARE CONSTANT PRESS DEVICE

* Countys MAY Add Higher Demands

essurized Diaphragm Well Tanks

CHAMPION, WEL-FLO, PRO-LINE *See Flat Sheet* ④

Model / Part No.	List Price ($)	Diameter (ins)	Dimensions Height (ins)	Total Volume (gals)	Max. Accept. Factor	System Drawdown 20/40 (gals)	30/50 (gals)	40/60 (gals)	Shipping Wt. (Vol.) lbs (cu ft)
CH 4202/WF60/CA4202	213.00	15⅜	31⅛	20.0	0.57	8.0	6.8	5.9	33 (4.9)
CH 6000/WF80/CA6000	225.00	15⅜	38¼	26.0	0.44	10.5	8.8	7.6	36.0
CH 8003/WF100/CA8003	364.00	15¾	46½	32.0	0.35	–	10.9	9.4	43 (7.0)
CH 8205/WF110/CA8205	399.00	22	29⅛	34.0	1.00	13.7	11.6	10.0	61 (9.6)
CH 10050/WF140/CA10050	461.00	22	36	44.0	0.77	17.7	15.0	13.0	69 (11.0)
CH 12051/WF200/CA12051	545.00	22	46¼	62.0	0.55	24.9	21.1	18.3	92 (13.9)
CH 17255/WF255/CA17255	585.00	22	56⅛	81.0	0.41	32.6	27.5	23.9	103
CH 17252/WF252/CA17252	663.00	22	62¼	86.0	0.39	34.6	29.2	25.4	114 (18.1)
CH 17002/WF260/CA17002	647.00	26	47¼	86.0	0.54	34.6	29.2	25.4	123 (18.9)
CH 22050/WF360/CA22050	922.00	26	51⅛	119.0	0.39	47.8	40.5	35.1	166 (24.5)

CH4202, CH6000, CH8003, WF60, WF80, WI100, CA 4202, CA6000, & CA8003 have a 1" NPTF system connection and a 28 psig pre-charge.

CH8205 - CH22050, WF110 - WF360, CA8205 - CA22050 have a 1¼" NPTF system connection and a 39

Project Information for:	L144709		
Builder:	WOODMAN PARK BLDRS	Date:	1/17/2006
Lot:	N/A	Start Number:	**1273**
Subdivision:	3827 SW BIRLEY RD		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	21		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6.2

Gravity		Wind		Building Code:	FBC2004
Roof (psf):	42	Wind Standard:	ASCE 7-02		
Floor (psf):	55	Wind Speed (mph):	110		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

WOOD, WILLIAM G. CBC058182
Address: PO BOX 3535
DAYTONA BCH FL. 32118 Designer: **142**

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	117061273	1/17/2006				
2	CJ3	117061274	1/17/2006				
3	CJ5	117061275	1/17/2006				
4	HJ7	117061276	1/17/2006				
5	T01	117061277	1/17/2006				
6	T01G	117061278	1/17/2006				
7	T02	117061279	1/17/2006				
8	T02G	117061280	1/17/2006				
9	T03	117061281	1/17/2006				
10	T03G	117061282	1/17/2006				
11	T04	117061283	1/17/2006				
12	T04G	117061284	1/17/2006				
13	T05	117061285	1/17/2006				
14	T06	117061286	1/17/2006				
15	T07	117061287	1/17/2006				
16	T08	117061288	1/17/2006				
17	T09	117061289	1/17/2006				
18	T09G	117061290	1/17/2006				
19	T10	117061291	1/17/2006				
20	T11	117061292	1/17/2006				
21	T12	117061293	1/17/2006				

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Licensee Information

Name:	**WOOD, WILLIAM G (Primary Name)**
	WOODMAN PARK BUILDERS INC (DBA Nam
Main Address:	**P.O.BOX 3535** **LAKE CITY Florida 32026**
License Mailing:	
LicenseLocation:	**P.O.BOX 3535** **LAKE CITY FL 32026**

License Information

License Type:	**Certified Building Contractor**
Rank:	**Cert Building**
License Number:	**CBC058182**
Status:	**Current,Active**
Licensure Date:	**10/06/1997**
Expires:	**08/31/2006**

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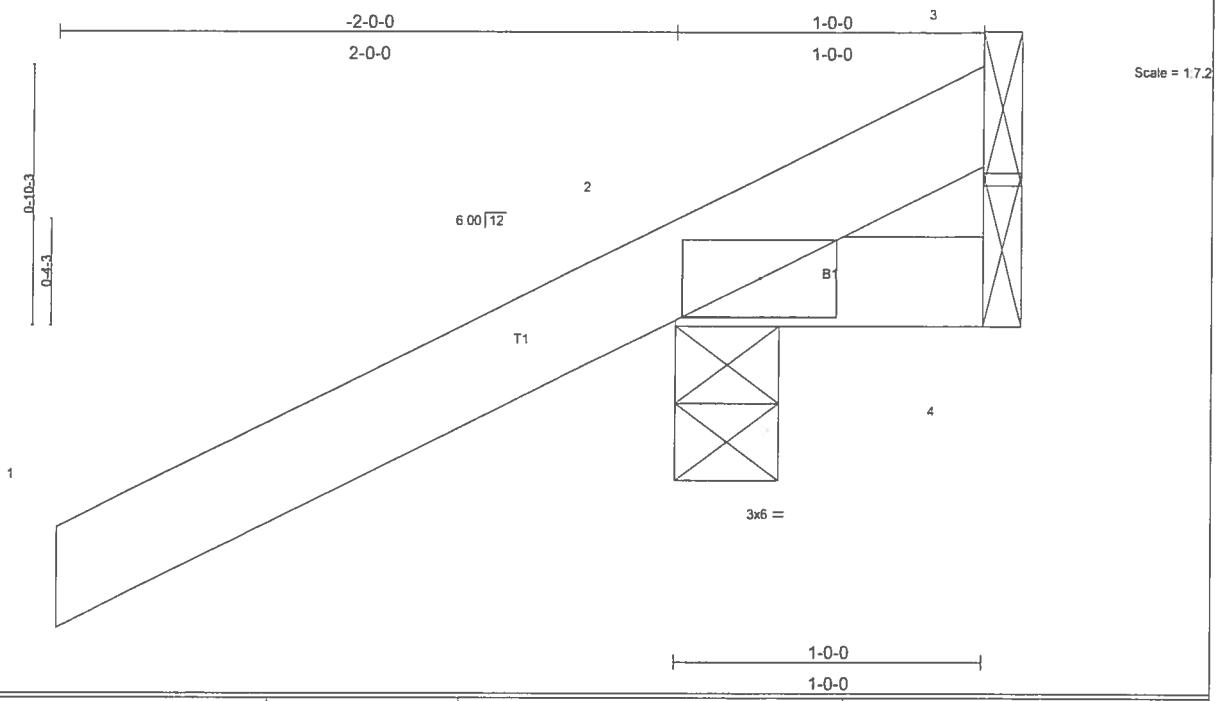
JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061273

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	CJ1	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:33 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=267/0-4-0, 4=14/Mechanical, 3=-91/Mechanical
Max Horz 2=87(load case 5)
Max Uplift2=-287(load case 5), 4=-9(load case 3), 3=-91(load case 1)
Max Grav 2=267(load case 1), 4=14(load case 1), 3=128(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-69/76
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 2, 9 lb uplift at joint 4 and 91 lb uplift at joint 3.

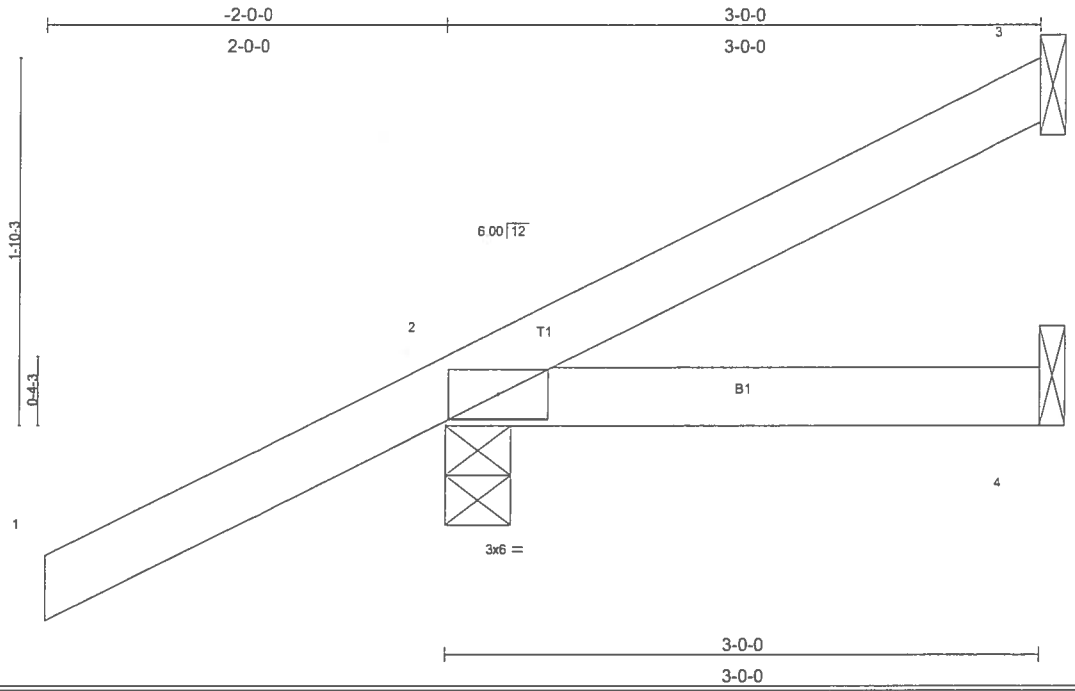
LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061274

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	CJ3	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:33 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=29/Mechanical, 2=279/0-4-0, 4=42/Mechanical
Max Horz 2=132(load case 5)
Max Uplift3=-27(load case 6), 2=-240(load case 5), 4=-26(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-58/7
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 240 lb uplift at joint 2 and 26 lb uplift at joint 4.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061275

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	CJ5	MONO TRUSS	3	1	Job Reference (optional)

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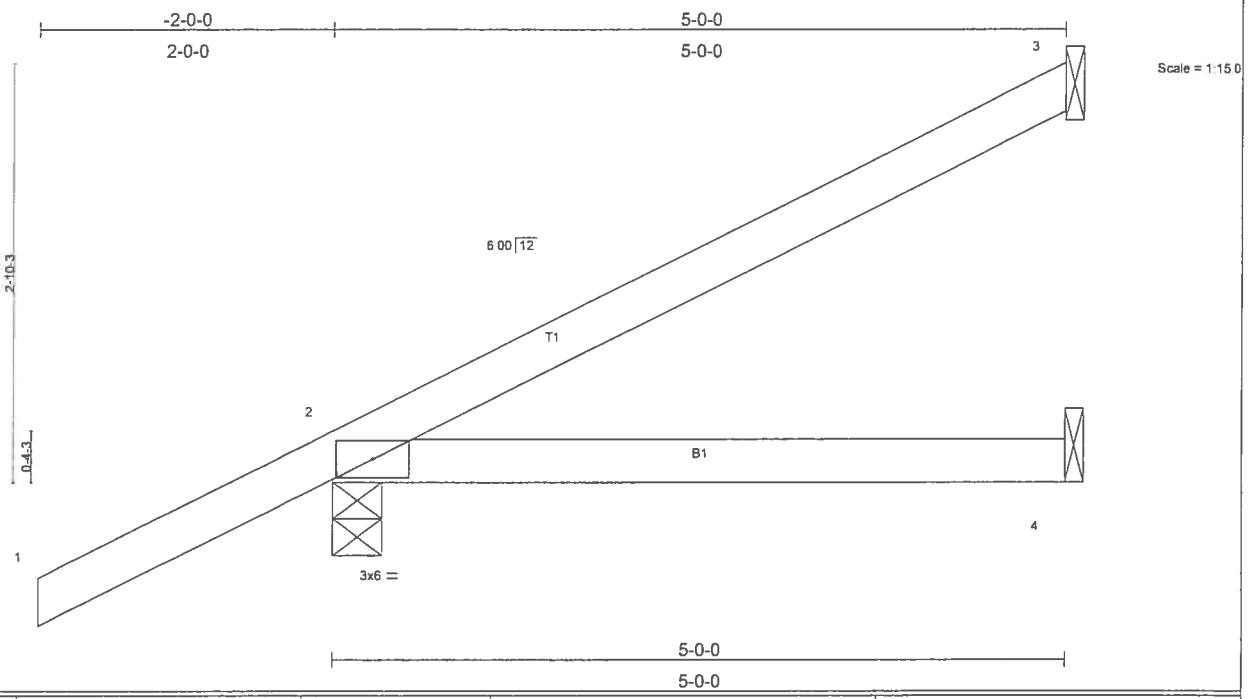

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	0.09	2-4	>672	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	0.07	2-4	>784	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=102/Mechanical, 2=344/0-4-0, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift3=-86(load case 5), 2=-261(load case 5), 4=-46(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-87/36
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 261 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061276

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	HJ7	MONO TRUSS	2	1	Job Reference (optional)

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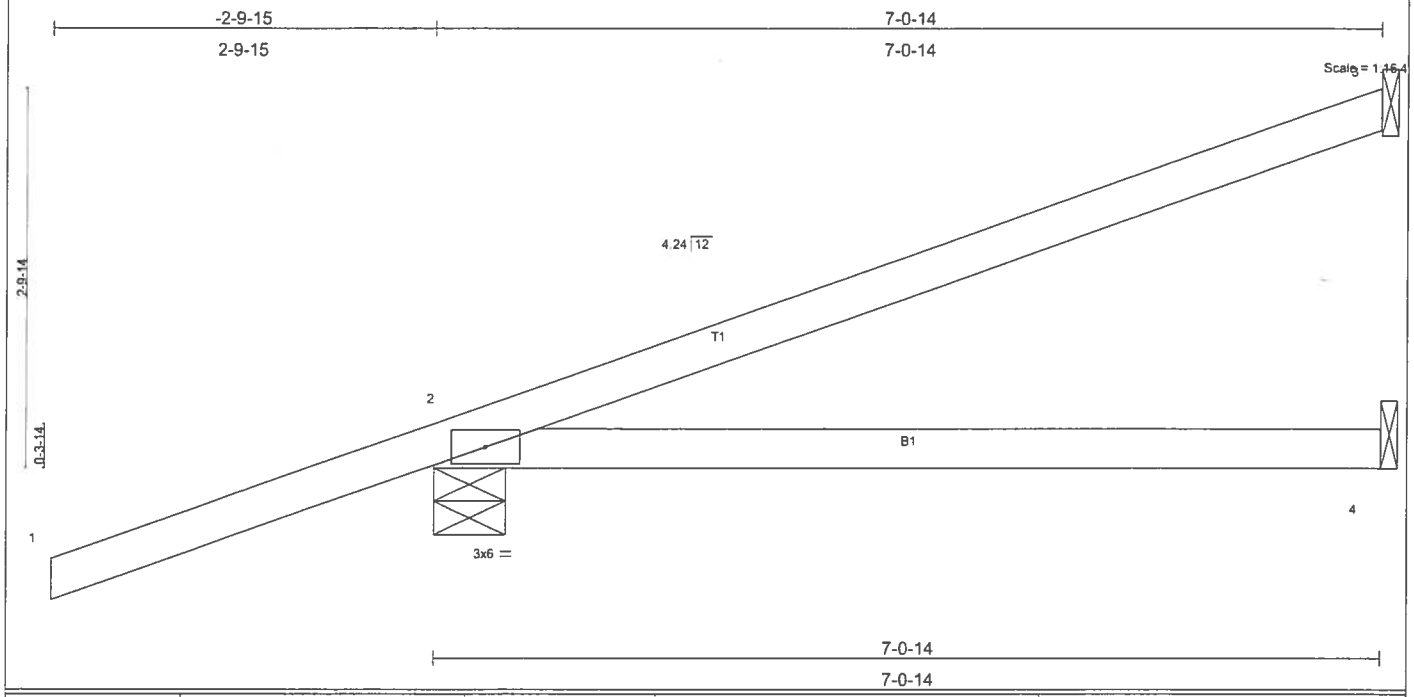

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.10	2-4	>773	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.13	2-4	>645	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=190/Mechanical, 2=381/0-6-7, 4=109/Mechanical
Max Horz 2=168(load case 2)
Max Uplift3=-153(load case 2), 2=-338(load case 2), 4=-55(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-71/45
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 3, 338 lb uplift at joint 2 and 55 lb uplift at joint 4.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-3=-95(F=-21, B=-21), 2=0(F=15, B=15)-to-4=-53(F=-12, B=-12)

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061277

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T01	COMMON	10	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:36 2006 Page 1

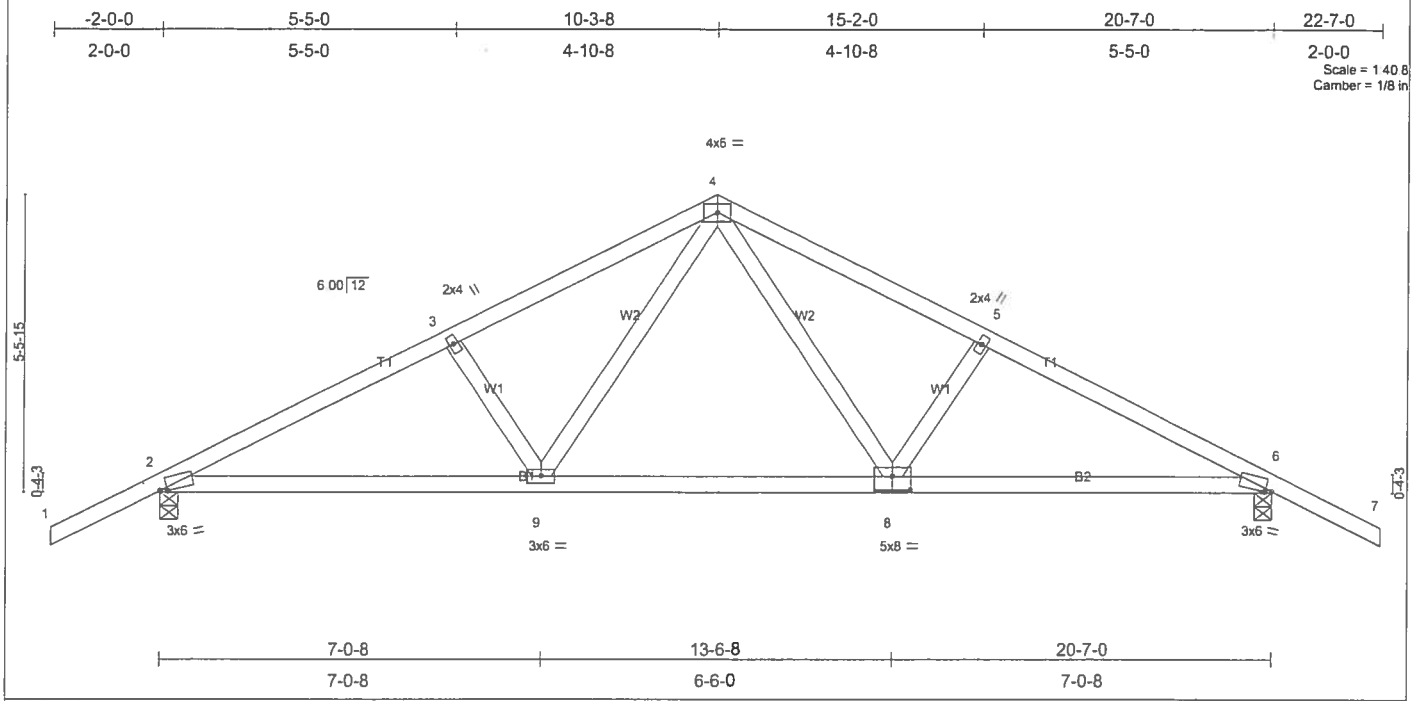

Plate Offsets (X,Y): [2:0-1-9,0-0-7], [6:0-1-9,0-0-7], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.17	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.28	8-9	>875	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 98 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS (lb/size) 2=1130/0-4-0, 6=1130/0-4-0
Max Horz 2=-110(load case 6)
Max Uplift2=-465(load case 5), 6=-465(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1786/731, 3-4=-1637/731, 4-5=-1637/731, 5-6=-1786/731, 6-7=0/47
BOT CHORD 2-9=-483/1525, 8-9=-241/1056, 6-8=-483/1525
WEBS 3-9=-228/213, 4-9=-249/686, 4-8=-249/686, 5-8=-228/213

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 2 and 465 lb uplift at joint 6.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-9=-30, 8-9=-80(F=-50), 6-8=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
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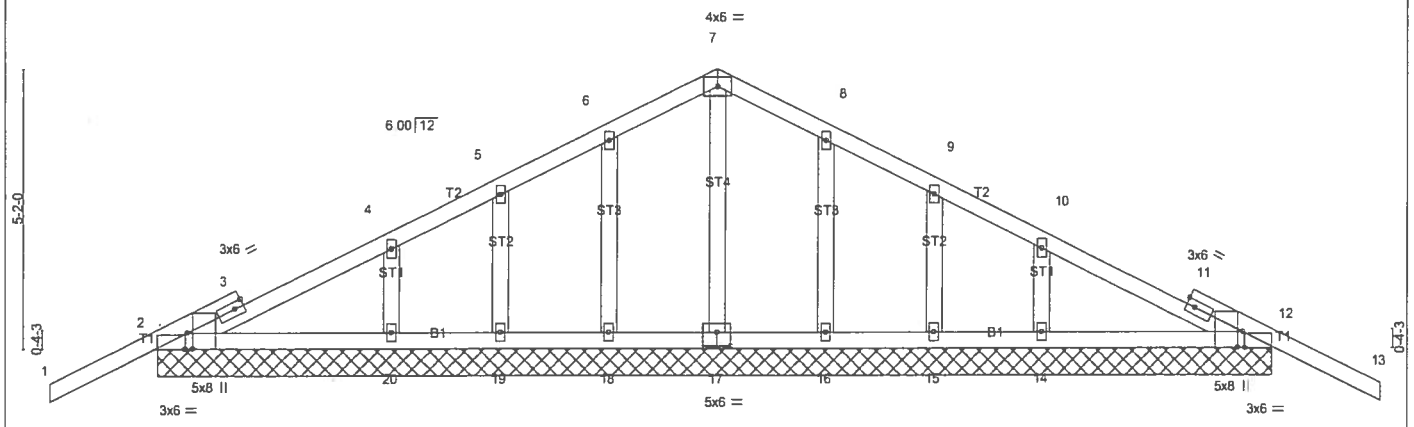
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061278

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T01G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:37 2006 Page 1

-2-0-0 | 10-3-8 | 20-7-0 | 22-7-0
2-0-0 | 10-3-8 | 10-3-8 | 2-0-0
Scale = 1:40.8



20-7-0
20-7-0

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [12:0-3-8,Edge], [12:0-0-8,Edge], [17:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.02	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.04	13	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 105 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=520/20-7-0, 12=520/20-7-0, 17=346/20-7-0, 18=315/20-7-0, 19=198/20-7-0, 20=504/20-7-0, 16=315/20-7-0, 15=198/20-7-0, 14=504/20-7-0
Max Horz 2=-106(load case 6)
Max Uplift2=-273(load case 5), 12=-289(load case 6), 17=-18(load case 5), 18=-133(load case 5), 19=-118(load case 5), 20=-177(load case 5), 16=-132(load case 6), 15=-116(load case 6), 14=-182(load case 6)
Max Grav 2=524(load case 9), 12=524(load case 10), 17=346(load case 1), 18=319(load case 9), 19=198(load case 1), 20=505(load case 9), 16=319(load case 10), 15=198(load case 1), 14=505(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-81/34, 3-4=-93/180, 4-5=-16/113, 5-6=0/140, 6-7=0/178, 7-8=0/178, 8-9=0/140, 9-10=-1/113, 10-11=-52/180, 11-12=-39/28, 12-13=-15/99
BOT CHORD 2-20=-74/148, 19-20=-74/148, 18-19=-74/148, 17-18=-74/148, 16-17=-74/148, 15-16=-74/148, 14-15=-74/148, 12-14=-74/148
WEBS 7-17=-290/30, 6-18=-250/161, 5-19=-168/142, 4-20=-379/227, 8-16=-250/161, 9-15=-168/142, 10-14=-379/227

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 2, 289 lb uplift at joint 12, 18 lb uplift at joint 17, 133 lb uplift at joint 18, 118 lb uplift at joint 19, 177 lb uplift at joint 20, 132 lb uplift at joint 16, 116 lb uplift at joint 15 and 182 lb uplift at joint 14.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-114(F=-60), 7-13=-114(F=-60), 2-12=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061279

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T02	COMMON	15	1	Job Reference (optional)

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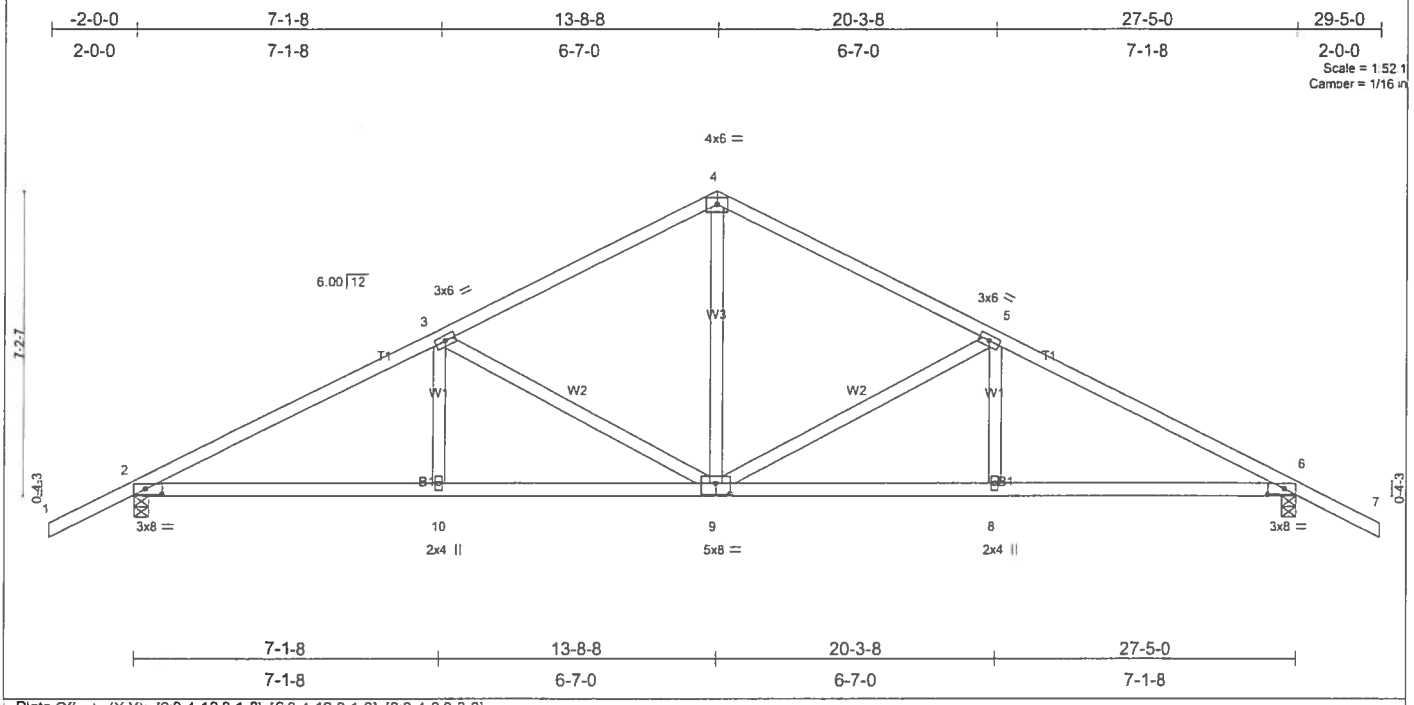

Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.12	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.20	6-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.07	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 134 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-1 oc bracing.

REACTIONS (lb/size) 2=1255/0-4-0, 6=1255/0-4-0
Max Horz 2=134(load case 5)
Max Uplift2=-495(load case 5), 6=-495(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1986/804, 3-4=-1356/654, 4-5=-1356/654, 5-6=-1986/804, 6-7=0/47
BOT CHORD 2-10=-531/1692, 9-10=-531/1692, 8-9=-531/1692, 6-8=-531/1692
WEBS 3-10=0/225, 3-9=-653/345, 4-9=-296/793, 5-9=-653/345, 5-8=0/225

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 495 lb uplift at joint 2 and 495 lb uplift at joint 6.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061280

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T02G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:39 2006 Page 1

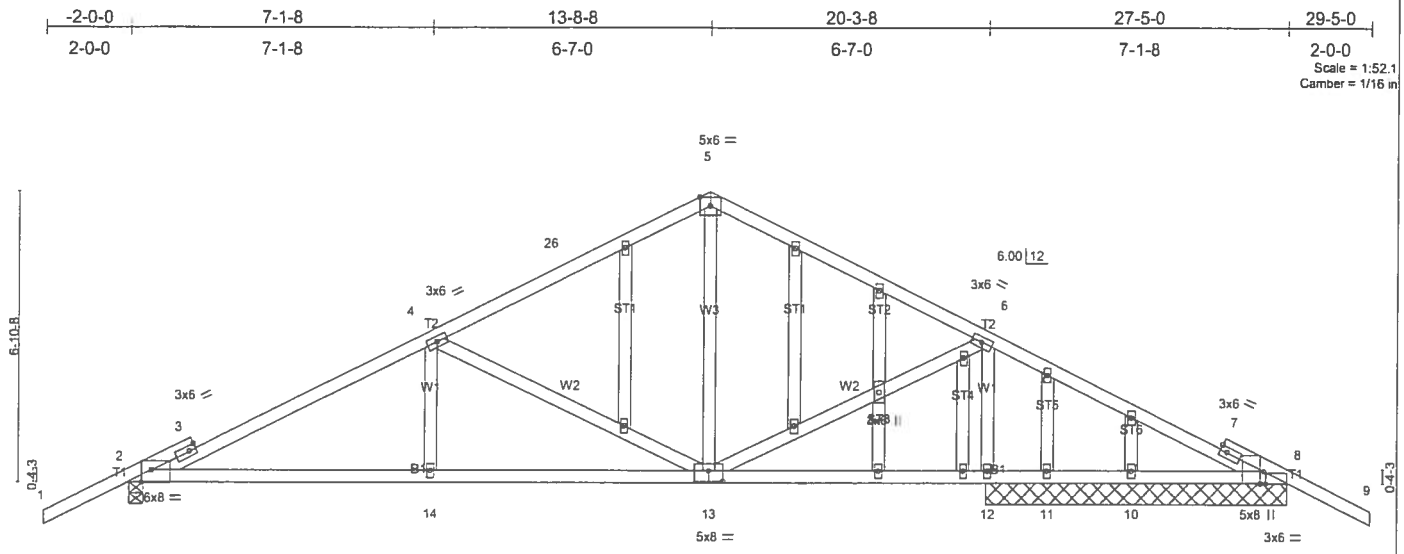

Plate Offsets (X,Y): [2:0-2-13,Edge], [8:0-0-8,Edge], [8:0-3-8,Edge], [13:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.86	Vert(LL)	-0.14	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.22	2-14	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(TL)	-0.02	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 164 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 8=326/7-2-0, 2=916/0-4-0, 12=2150/7-2-0, 11=-134/7-2-0, 10=227/7-2-0
Max Horz 12=-130(load case 6)
Max Uplift8=-224(load case 6), 2=-406(load case 5), 12=-732(load case 6), 11=-134(load case 1), 10=-40(load case 5)
Max Grav 8=387(load case 10), 2=916(load case 1), 12=2150(load case 1), 11=30(load case 5), 10=232(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-746/376, 6-7=-292/862, 7-8=-265/576, 8-9=-15/99, 1-2=0/47, 2-3=-1334/511, 3-4=-1292/549, 4-26=-645/333, 5-26=-491/350
BOT CHORD 2-14=-322/1155, 13-14=-322/1155, 12-13=-614/400, 11-12=-614/398, 10-11=-614/398, 8-10=-614/398
WEBS 6-12=-1911/926, 6-13=-422/1251, 5-13=-64/83, 4-13=-740/382, 4-14=0/245

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 8, 406 lb uplift at joint 2, 732 lb uplift at joint 12, 134 lb uplift at joint 11 and 40 lb uplift at joint 10.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 5-9=-114(F=-60), 1-26=-54, 5-26=-63(F=-9), 2-8=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

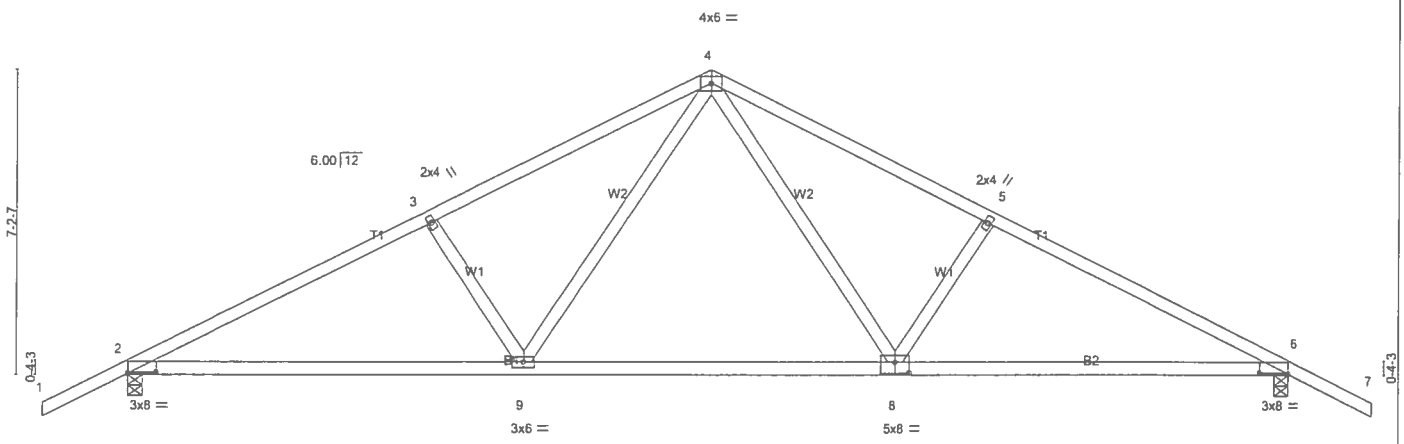
Dwg.#0117061281

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T03	COMMON	7	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 10:19:45 2006 Page 1

-2-0-0	7-1-8	13-8-8	20-3-8	27-5-0	29-5-0
2-0-0	7-1-8	6-7-0	6-7-0	7-1-8	2-0-0

Scale = 1:52.1
Camber = 1/8 in



9-3-13	18-1-3	27-5-0
9-3-13	8-9-5	9-3-13

Plate Offsets (X,Y): [2:0-8-0,0-0-6], [6:0-8-0,0-0-6], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.22	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.37	6-8	>886	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(TL)	0.07	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 129 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-15 oc bracing.

REACTIONS (lb/size) 2=1255/0-4-0, 6=1255/0-4-0
Max Horz 2=134(load case 5)
Max Uplift2=-495(load case 5), 6=-495(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1936/817, 3-4=-1733/811, 4-5=-1733/811, 5-6=-1936/817, 6-7=0/47
BOT CHORD 2-9=-543/1655, 8-9=-234/1115, 6-8=-543/1655
WEBS 3-9=-353/320, 4-9=-254/690, 4-8=-254/690, 5-8=-353/320

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 495 lb uplift at joint 2 and 495 lb uplift at joint 6.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061282

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T03G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:40 2006 Page 1

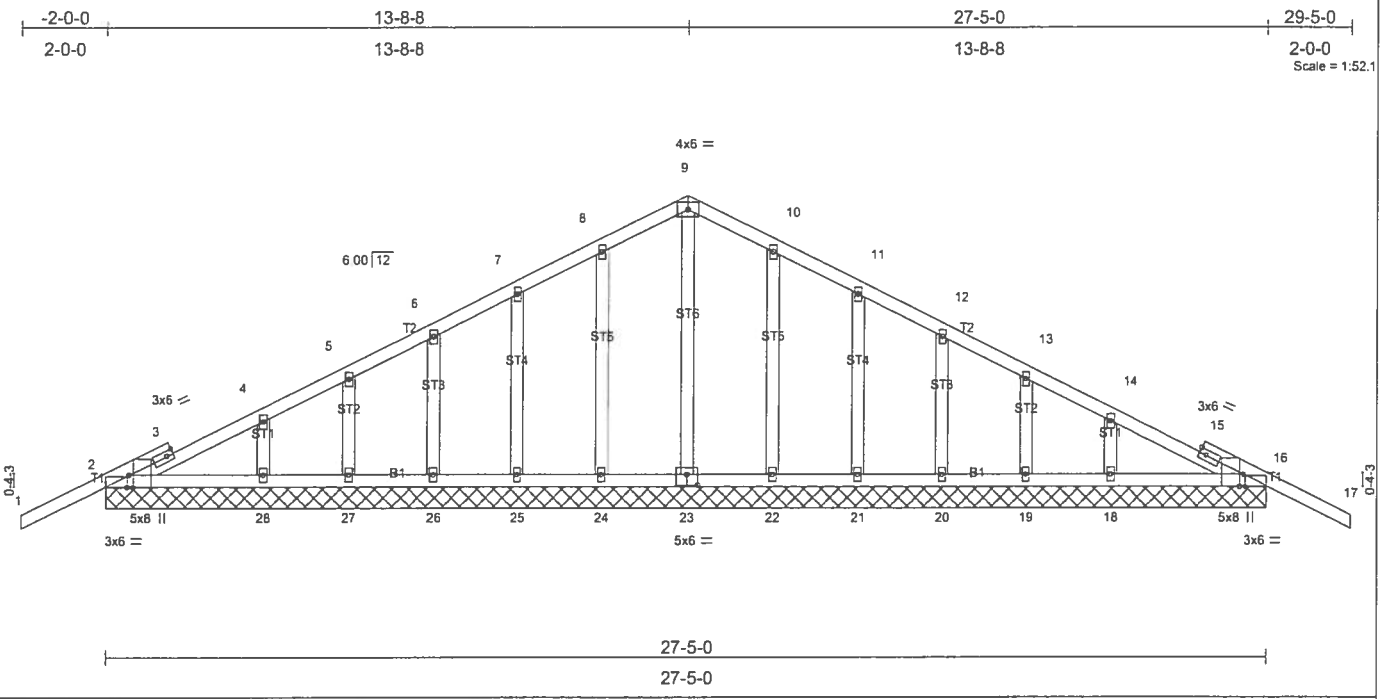


Plate Offsets (X,Y) [2:0-3-8,Edge], [2:0-0-8,Edge], [16:0-3-8,Edge], [16:0-0-8,Edge], [23:0-3-0,0-3-0]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.03	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.05	17	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(TL)	0.01	16	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 155 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=524/27-5-0, 16=524/27-5-0, 23=295/27-5-0, 24=290/27-5-0, 25=285/27-5-0, 26=299/27-5-0, 27=242/27-5-0, 28=414/27-5-0, 22=290/27-5-0, 21=285/27-5-0, 20=299/27-5-0, 19=242/27-5-0, 18=414/27-5-0
Max Horz 2=130(load case 5)
Max Uplift2=-261(load case 5), 16=-280(load case 6), 24=-125(load case 5), 25=-135(load case 5), 26=-130(load case 5), 27=-136(load case 5), 28=-131(load case 6), 22=-122(load case 6), 21=-136(load case 6), 20=-130(load case 6), 19=-134(load case 6), 18=-134(load case 6)
Max Grav 2=524(load case 9), 16=524(load case 10), 23=295(load case 1), 24=294(load case 9), 25=285(load case 1), 26=299(load case 9), 27=242(load case 1), 28=414(load case 9), 22=294(load case 10), 21=285(load case 1), 20=299(load case 10), 19=242(load case 1), 18=414(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-102/48, 3-4=-112/90, 4-5=-55/86, 5-6=-38/116, 6-7=-42/156, 7-8=-41/216, 8-9=-43/266, 9-10=-43/266, 10-11=-41/216, 11-12=-42/156, 12-13=-38/100, 13-14=-52/51, 14-15=-60/90, 15-16=-66/13, 16-17=-15/99
BOT CHORD 2-28=-9/154, 27-28=-9/154, 26-27=-9/154, 25-26=-9/154, 24-25=-9/154, 23-24=-9/154, 22-23=-9/154, 21-22=-9/154, 20-21=-9/154, 19-20=-9/154, 18-19=-9/154, 16-18=-9/154
WEBS 9-23=-235/0, 8-24=-234/149, 7-25=-226/168, 6-26=-235/162, 5-27=-198/159, 4-28=-316/178, 10-22=-234/149, 11-21=-226/168, 12-20=-235/162, 13-19=-198/159, 14-18=-316/178

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 2, 280 lb uplift at joint 16, 125 lb uplift at joint 24, 135 lb uplift at joint 25, 130 lb uplift at joint 26, 136 lb uplift at joint 27, 131 lb uplift at joint 28, 122 lb uplift at joint 22, 136 lb uplift at joint 21, 130 lb uplift at joint 20, 134 lb uplift at joint 19 and 134 lb uplift at joint 18.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

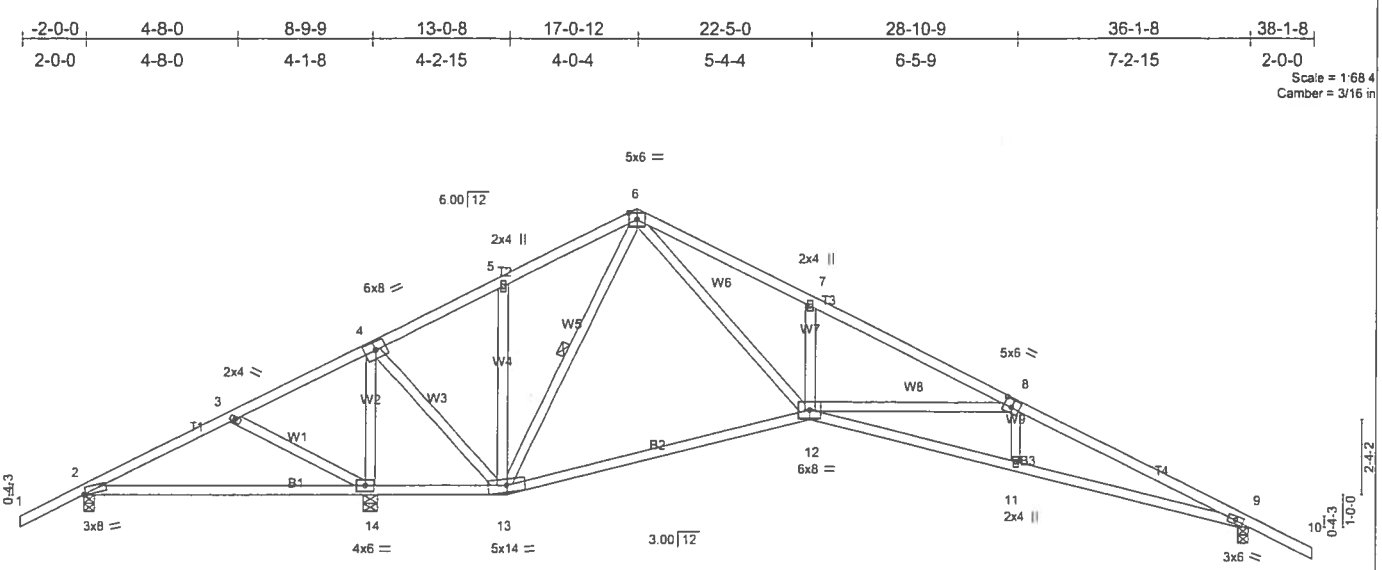
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-9=-114(F=-60), 9-17=-114(F=-60), 2-16=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061283

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:41 2006 Page 1



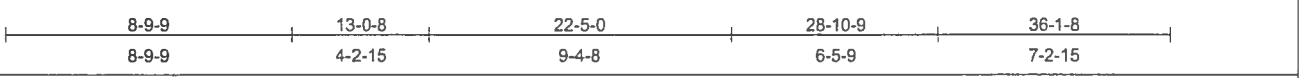


Plate Offsets (X,Y): [2:0-0-10,Edge], [8:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	0.20	2-14	>523	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.51	12-13	>641	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.17	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 195 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.
WEBS 1 Row at midpt 6-13

REACTIONS (lb/size) 2=-296/0-4-0, 9=1011/0-4-0, 14=2525/0-5-2
Max Horz 2=-203(load case 6)
Max Uplift2=-496(load case 10), 9=-464(load case 6), 14=-829(load case 5)
Max Grav 2=4(load case 9), 9=1011(load case 1), 14=2525(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-356/1408, 3-4=-519/1708, 4-5=0/349, 5-6=0/359, 6-7=-1521/703, 7-8=-1536/538, 8-9=-2639/990, 9-10=0/46
BOT CHORD 2-14=-1215/483, 13-14=-1446/745, 12-13=0/273, 11-12=-721/2354, 9-11=-720/2363
WEBS 3-14=-349/314, 4-14=-2173/843, 4-13=-564/1795, 5-13=-227/212, 6-13=-1088/279, 6-12=-563/1643, 7-12=-320/325, 8-12=-961/575, 8-11=0/198

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 496 lb uplift at joint 2, 464 lb uplift at joint 9 and 829 lb uplift at joint 14.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

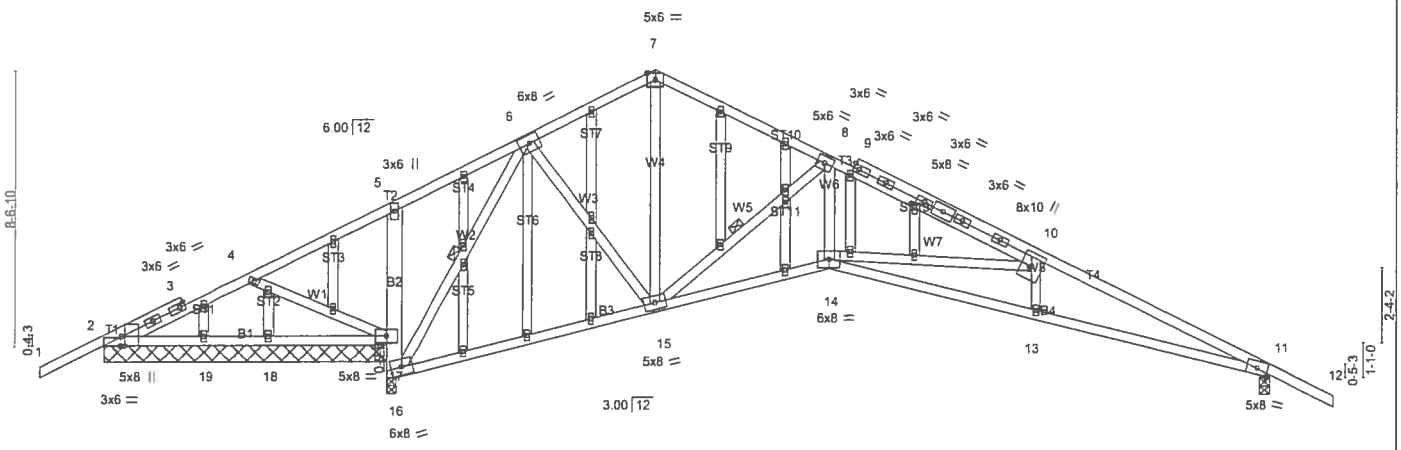
Dwg.#0117061284

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T04G	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:42 2006 Page 1

-2-0-0	4-7-8	8-8-8	12-10-10	17-0-12	22-5-0	28-10-9	36-1-8
2-0-0	4-7-8	4-1-0	4-2-2	4-2-2	5-4-4	6-5-9	7-2-15

Scale = 1:68.4
Camber = 3/16 in



8-8-8	17-0-12	22-5-0	28-10-9	36-1-8
8-8-8	8-4-4	5-4-4	6-5-9	7-2-15

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [38.0-1-12,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.81	Vert(LL)	-0.37	13-14	>876	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.60	13-14	>544	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.24	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 262 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 "Except"
T2 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D "Except"
B1 2 X 4 SYP No.2, B2 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-3 oc bracing.
WEBS 1 Row at midpt 6-16, 8-15

REACTIONS (lb/size) 2=115/8-8-8, 17=1129/8-8-8, 16=2475/8-8-8, 16=2475/8-8-8, 11=1305/0-4-0, 18=-55/8-8-8, 19=105/8-8-8
Max Horz 2=-199(load case 6)
Max Uplift2=-225(load case 5), 17=-542(load case 5), 16=-664(load case 5), 11=-577(load case 6), 18=-55(load case 1), 19=-7(load case 6)
Max Grav 2=301(load case 9), 17=1129(load case 1), 16=2475(load case 1), 16=2475(load case 1), 11=1305(load case 1), 18=73(load case 6), 19=105(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-211/1174, 3-4=-239/1240, 4-5=-517/1745, 5-6=-256/1407, 6-7=-1118/624, 7-8=-1179/627, 8-9=-2872/1204, 9-10=-3008/1196, 10-11=-4133/1645, 11-12=0/46
BOT CHORD 2-19=-1067/383, 18-19=-1067/383, 17-18=-1067/383, 16-17=0/0, 5-17=-763/472, 15-16=-20/301, 14-15=-773/2752, 13-14=-1338/3744, 11-13=-1334/3761
WEBS 4-17=-549/377, 6-16=-2767/990, 6-15=-283/1188, 7-15=-124/170, 8-15=-2294/913, 8-14=-493/1744, 10-14=-960/546, 10-13=0/224

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 542 lb uplift at joint 17, 664 lb uplift at joint 16, 577 lb uplift at joint 11, 55 lb uplift at joint 18 and 7 lb uplift at joint 19.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-114(F=-60), 5-7=-141(F=-87), 7-8=-141(F=-87), 8-12=-54, 2-17=-30, 14-16=-30, 11-14=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

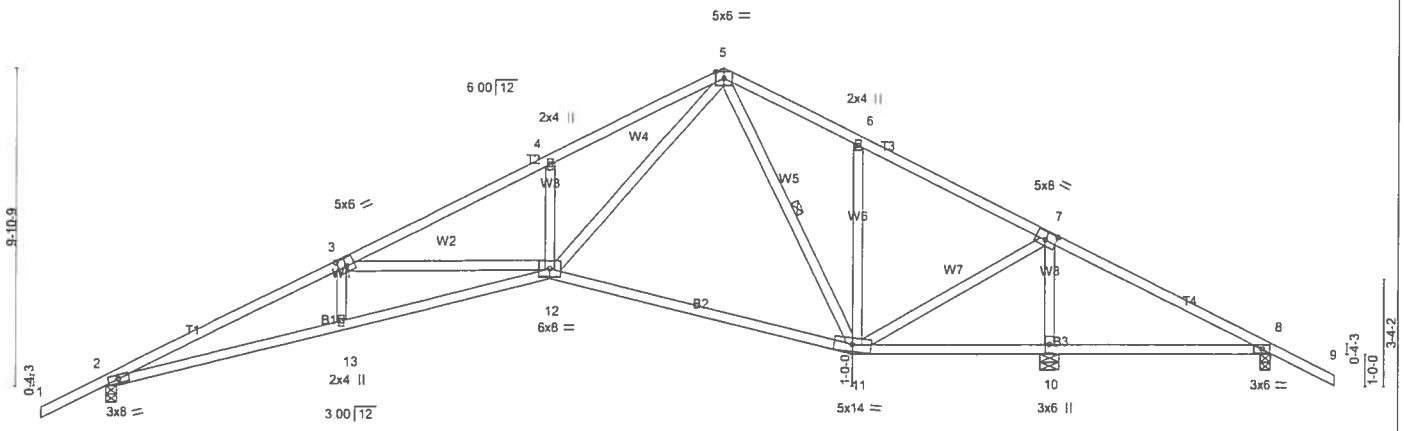
Dwg.#0117061285

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:44 2006 Page 1

-2-0-0	7-2-15	13-8-8	19-0-12	23-1-0	29-2-15	36-1-8	38-1-8
2-0-0	7-2-15	6-5-9	5-4-4	4-0-4	6-1-15	6-10-9	2-0-0

Scale = 1:68.4
Camber = 3/16 in



7-2-15	13-8-8	23-1-0	29-2-15	36-1-8
7-2-15	6-5-9	9-4-8	6-1-15	6-10-9

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.36	11-12	>982	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.59	11-12	>591	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(TL)	0.23	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 188 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-2 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS (lb/size) 2=1150/0-4-0, 8=-416/0-4-0, 10=2506/0-7-3
Max Horz 2=203(load case 5)
Max Uplift2=-474(load case 5), 8=-571(load case 9), 10=-853(load case 5)
Max Grav 2=1150(load case 1), 8=102(load case 5), 10=2506(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3204/1253, 3-4=-2125/812, 4-5=-2110/978, 5-6=-371/389, 6-7=-397/259, 7-8=-614/1787, 8-9=0/47
BOT CHORD 2-13=-1015/2879, 12-13=-1017/2871, 11-12=-34/628, 10-11=-1451/672, 8-10=-1504/696
WEBS 3-13=0/197, 3-12=-941/562, 4-12=-319/326, 5-12=-719/1918, 5-11=-772/250, 6-11=-262/255, 7-11=-642/1979, 7-10=-2303/1016

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 2, 571 lb uplift at joint 8 and 853 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

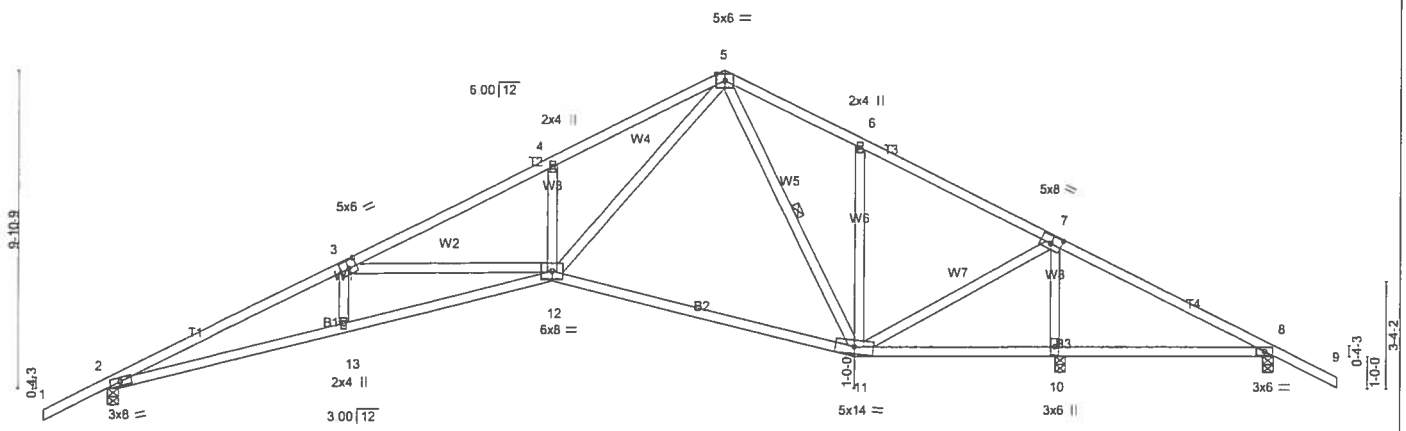
Dwg.#0117061286

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T06	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:45 2006 Page 1

-2-0-0 | 7-2-15 | 13-8-8 | 19-0-12 | 23-1-0 | 29-4-0 | 36-1-8 | 38-1-8
2-0-0 | 7-2-15 | 6-5-9 | 5-4-4 | 4-0-4 | 6-3-0 | 6-9-8 | 2-0-0

Scale = 1:68.4
Camber = 3/16 in



7-2-15 | 13-8-8 | 23-1-0 | 29-6-0 | 36-1-8
7-2-15 | 6-5-9 | 9-4-8 | 6-5-0 | 6-7-8

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.36	11-12	>979	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.83	Vert(TL)	-0.59	11-12	>589	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.23	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 188 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-2 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS (lb/size) 2=1157/0-4-0, 8=-421/0-4-0, 10=2504/0-4-0
Max Horz 2=203(load case 5)
Max Uplift2=-476(load case 5), 8=-573(load case 9), 10=-851(load case 5)
Max Grav 2=1157(load case 1), 8=104(load case 5), 10=2504(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3231/1264, 3-4=-2153/824, 4-5=-2138/990, 5-6=-391/402, 6-7=-417/269, 7-8=-616/1788, 8-9=0/47
BOT CHORD 2-13=-1023/2903, 12-13=-1025/2895, 11-12=-39/645, 10-11=-1452/673, 8-10=-1506/696
WEBS 3-13=0/197, 3-12=-940/562, 4-12=-319/327, 5-12=-725/1931, 5-11=-758/243, 6-11=-267/260, 7-11=-650/1995, 7-10=-2303/1017

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint 2, 573 lb uplift at joint 8 and 851 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

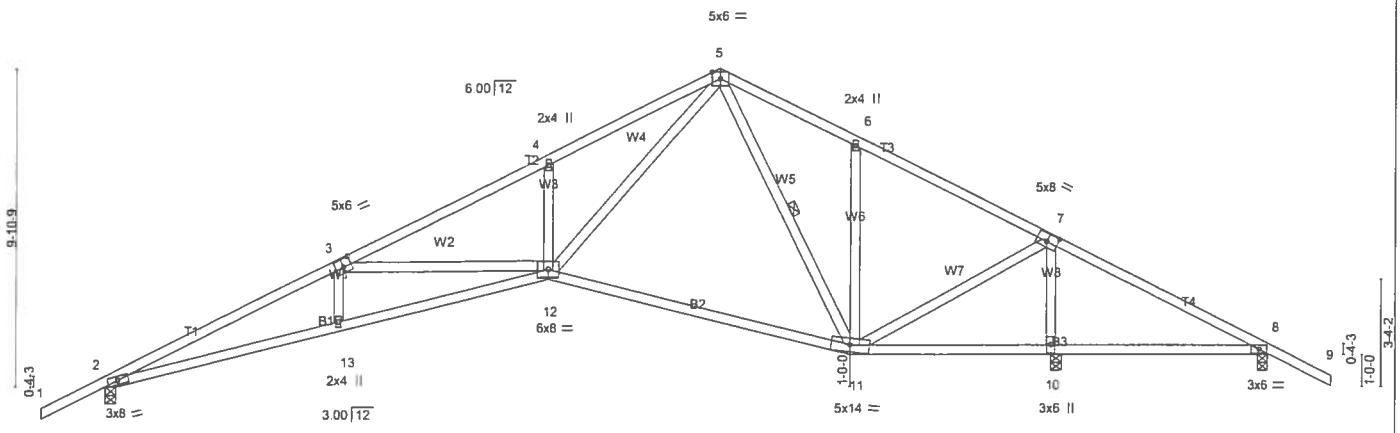
Dwg.#0117061287

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T07	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:46 2006 Page 1

-2-0-0	7-2-15	13-8-8	19-0-12	23-1-0	29-4-0	36-1-8	38-1-8
2-0-0	7-2-15	6-5-9	5-4-4	4-0-4	6-3-0	6-9-8	2-0-0

Scale = 1:68.4
Camber = 3/16 in



7-2-15	13-8-8	23-1-0	29-5-15	36-1-8
7-2-15	6-5-9	9-4-8	6-4-15	6-7-9

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.36	11-12	>979	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.83	Vert(TL)	-0.59	11-12	>589	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.23	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 188 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-2 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS (lb/size) 2=1157/0-4-0, 8=-421/0-4-0, 10=2504/0-4-3
Max Horz 2=203(load case 5)
Max Uplift2=-476(load case 5), 8=-573(load case 9), 10=-851(load case 5)
Max Grav 2=1157(load case 1), 8=104(load case 5), 10=2504(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3231/1264, 3-4=-2153/824, 4-5=-2138/990, 5-6=-391/402, 6-7=-417/269, 7-8=-616/1788, 8-9=0/47
BOT CHORD 2-13=-1023/2903, 12-13=-1025/2895, 11-12=-39/645, 10-11=-1452/673, 8-10=-1506/696
WEBS 3-13=0/197, 3-12=-940/562, 4-12=-319/327, 5-12=-725/1931, 5-11=-758/243, 6-11=-267/260, 7-11=-650/1995, 7-10=-2303/1017

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint 2, 573 lb uplift at joint 8 and 851 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

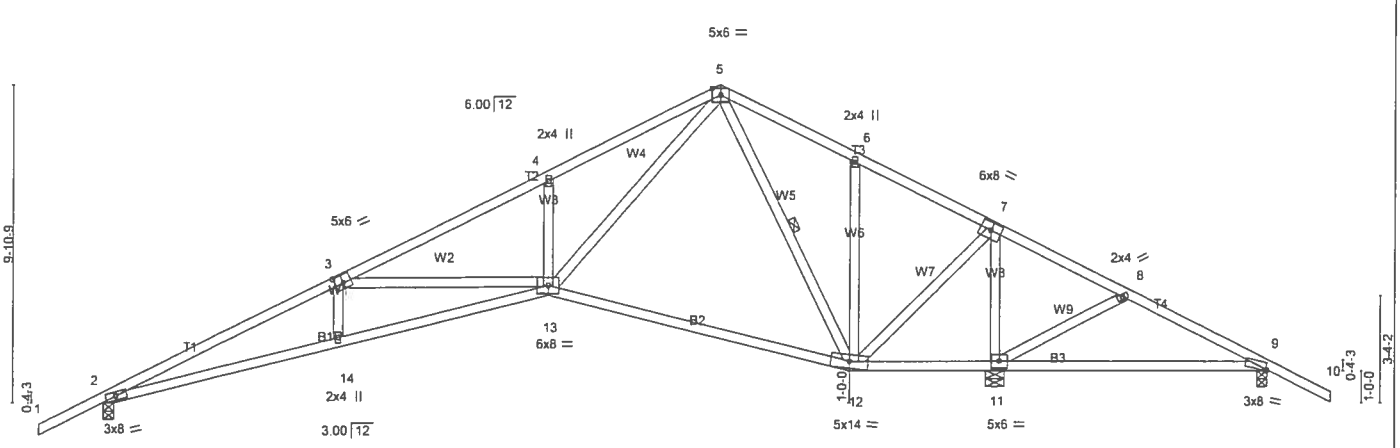
Dwg.#0117061288

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T08	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:46 2006 Page 1

-2-0-0	7-2-15	13-8-8	19-0-12	23-1-0	27-7-7	31-7-3	36-1-8	38-1-8
2-0-0	7-2-15	6-5-9	5-4-4	4-0-4	4-6-7	3-11-13	4-6-5	2-0-0

Scale = 1:68.4
Camber = 3/16 in



7-2-15	13-8-8	23-1-0	27-7-7	36-1-8
7-2-15	6-5-9	9-4-8	4-6-7	8-6-1

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [9:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.31	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.52	12-13	>636	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.19	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 195 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-4 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS (lb/size) 2=1030/0-4-0, 9=-324/0-4-0, 11=2534/0-7-3
Max Horz 2=203(load case 5)
Max Uplift2=-432(load case 5), 9=-516(load case 9), 11=-904(load case 5)
Max Grav 2=1030(load case 1), 9=70(load case 5), 11=2534(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2713/1036, 3-4=-1613/586, 4-5=-1599/751, 5-6=-27/298, 6-7=-47/289, 7-8=-584/1741, 8-9=-467/1448, 9-10=0/47
BOT CHORD 2-14=-860/2431, 13-14=-861/2422, 12-13=0/317, 11-12=-1474/746, 9-11=-1242/498
WEBS 3-14=0/198, 3-13=-958/573, 4-13=-320/325, 5-13=-612/1679, 5-12=-1041/354, 6-12=-237/223, 7-12=-613/1834, 7-11=-2192/893, 8-11=-337/300

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 432 lb uplift at joint 2, 516 lb uplift at joint 9 and 904 lb uplift at joint 11.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061289

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T09	SPECIAL	5	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:47 2006 Page 1

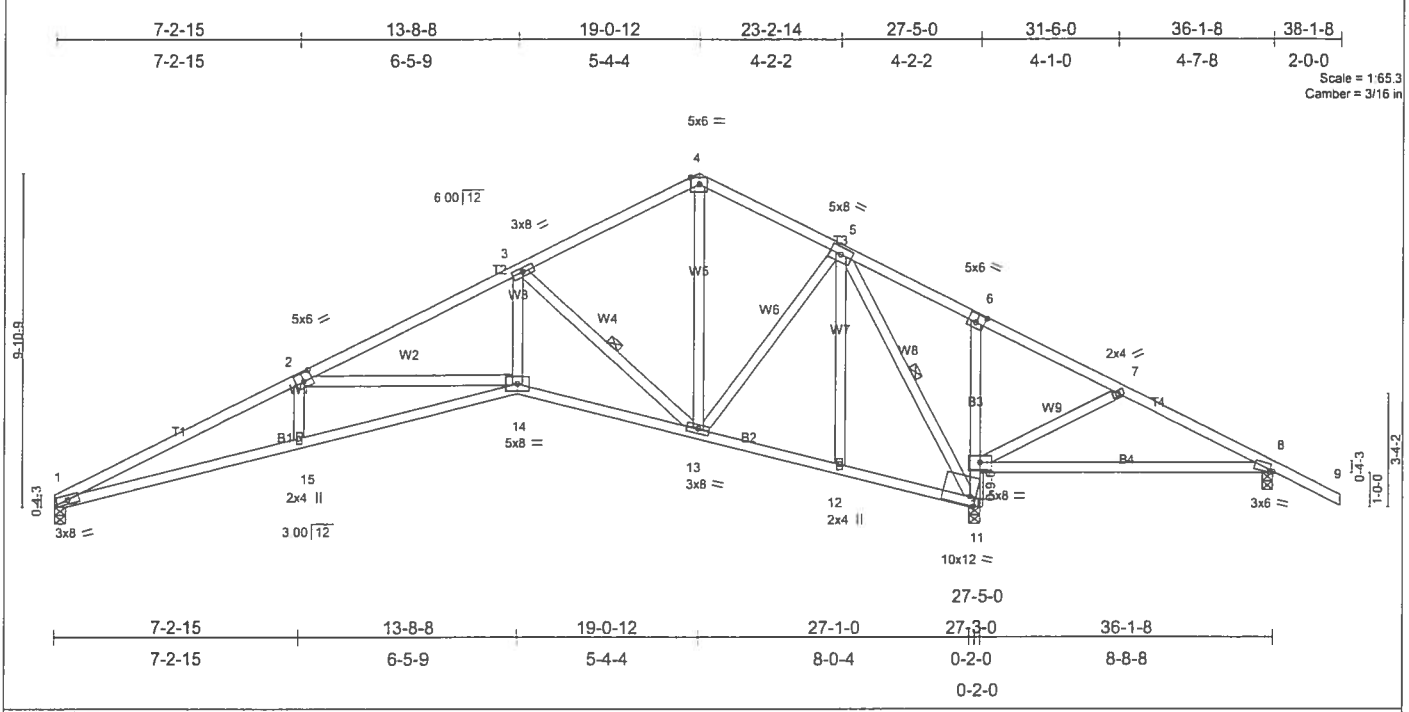


Plate Offsets (X,Y): [2:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-1-1,0-0-7], [11:0-1-14,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.27	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.43	14-15	>753	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.27	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 202 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* T1 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 *Except* B3 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-5 oc bracing.
WEBS 1 Row at midpt 3-13, 5-11

REACTIONS (lb/size) 1=1003/0-4-0, 8=74/0-4-0, 11=2047/0-4-0
Max Horz 1=-149(load case 6)
Max Uplift1=-339(load case 5), 8=-320(load case 6), 11=-740(load case 5)
Max Grav 1=1003(load case 1), 8=218(load case 10), 11=2047(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3163/1292, 2-3=-2002/777, 3-4=-677/413, 4-5=-652/418, 5-6=-143/779, 6-7=-247/870, 7-8=-156/675, 8-9=0/47
BOT CHORD 1-15=-1071/2866, 14-15=-1069/2846, 13-14=-492/1790, 12-13=0/177, 11-12=0/170, 10-11=-582/551, 6-10=-288/249, 8-10=-573/188
WEBS 2-15=0/236, 2-14=-1029/637, 3-14=-368/1343, 3-13=-1584/638, 4-13=-158/272, 5-13=-181/675, 5-11=-1701/555, 7-10=-302/291, 5-12=-12/189

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 1, 320 lb uplift at joint 8 and 740 lb uplift at joint 11.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

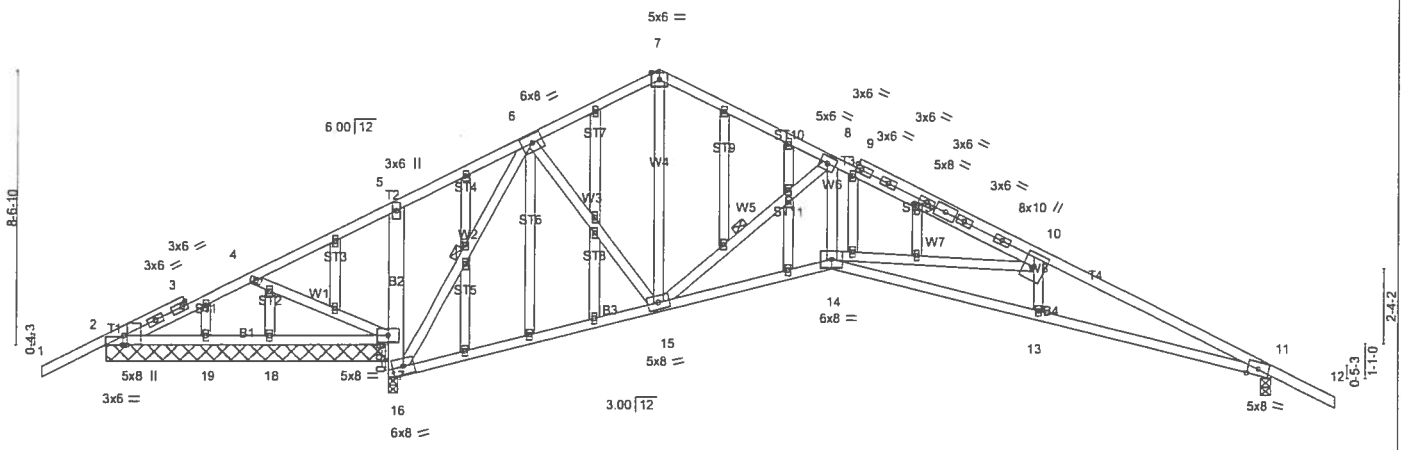
Dwg.#0117061290

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T09G	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 12:40:34 2006 Page 1

-2-0-0	4-7-8	8-8-8	12-10-10	17-0-12	22-5-0	28-10-9	36-1-8
2-0-0	4-7-8	4-1-0	4-2-2	4-2-2	5-4-4	6-5-9	7-2-15

Scale = 1:68.4
Camber = 3/16 in



8-8-8	17-0-12	22-5-0	28-10-9	36-1-8
8-8-8	8-4-4	5-4-4	6-5-9	7-2-15

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [38:0-1-12,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.81	Vert(LL)	-0.37	13-14	>876	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.60	13-14	>544	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.24	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 262 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* T2 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D *Except* B1 2 X 4 SYP No.2, B2 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-3 oc bracing.
WEBS 1 Row at midpt 6-16, 8-15

REACTIONS (lb/size) 2=115/8-8-8, 17=1129/8-8-8, 16=2475/8-8-8, 16=2475/8-8-8, 11=1305/0-4-0, 18=-55/8-8-8, 19=105/8-8-8
Max Horz 2=-199(load case 6)
Max Uplift2=-225(load case 5), 17=-542(load case 5), 16=-664(load case 5), 11=-577(load case 6), 18=-55(load case 1), 19=-7(load case 6)
Max Grav 2=301(load case 9), 17=1129(load case 1), 16=2475(load case 1), 16=2475(load case 1), 11=1305(load case 1), 18=73(load case 6), 19=105(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-211/1174, 3-4=-239/1240, 4-5=-517/1745, 5-6=-256/1407, 6-7=-1118/624, 7-8=-1179/627, 8-9=-2872/1204, 9-10=-3008/1196, 10-11=-4133/1645, 11-12=0/46
BOT CHORD 2-19=-1067/383, 18-19=-1067/383, 17-18=-1067/383, 16-17=0/0, 5-17=-763/472, 15-16=-20/301, 14-15=-773/2752, 13-14=-1338/3744, 11-13=-1334/3761
WEBS 4-17=-549/377, 6-16=-2767/990, 6-15=-283/1188, 7-15=-124/170, 8-15=-2294/913, 8-14=-493/1744, 10-14=-960/546, 10-13=0/224

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 542 lb uplift at joint 17, 664 lb uplift at joint 16, 577 lb uplift at joint 11, 55 lb uplift at joint 18 and 7 lb uplift at joint 19.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

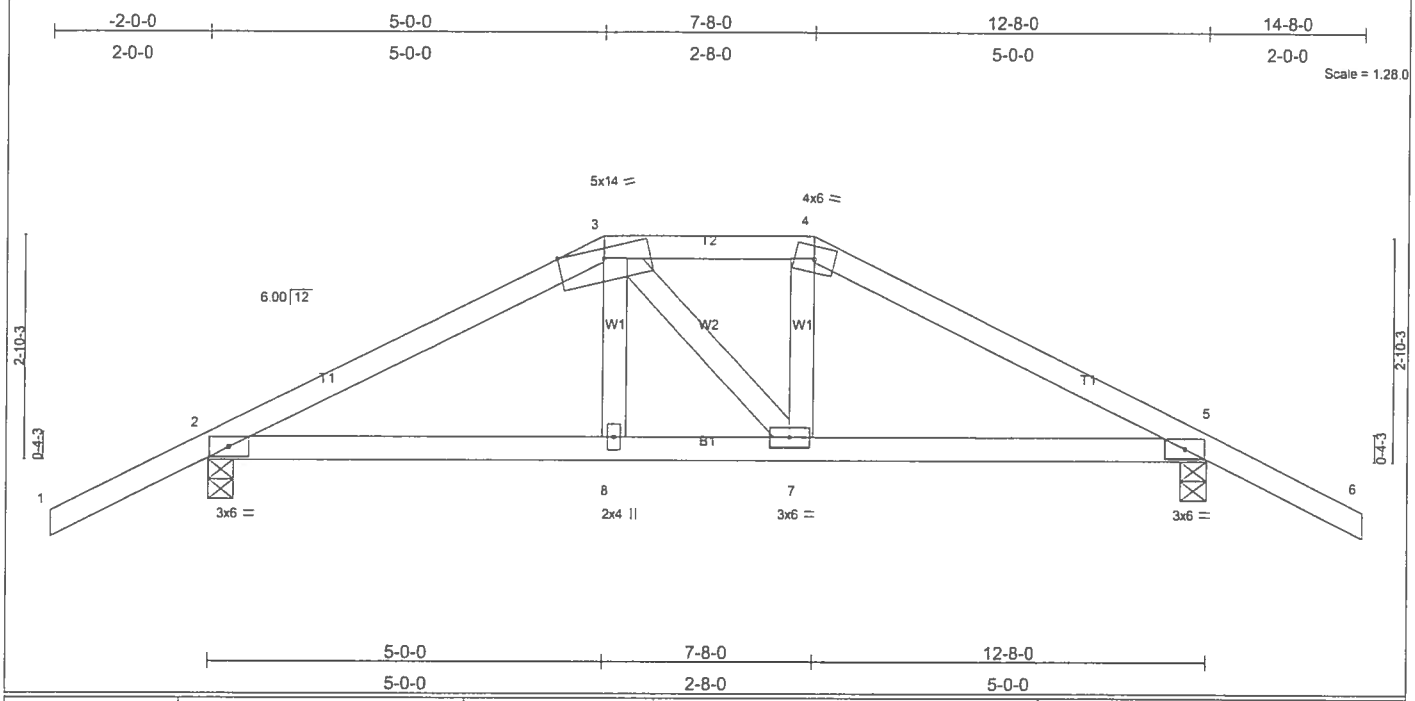
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-114(F=-60), 5-7=-141(F=-87), 7-8=-141(F=-87), 8-12=-54, 2-17=-30, 14-16=-30, 11-14=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061291

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T10	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:48 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.04	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.06	2-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-6 oc bracing.

REACTIONS (lb/size) 2=952/0-4-0, 5=952/0-4-0
Max Horz 2=-73(load case 5)
Max Uplift2=-610(load case 4), 5=-610(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1404/732, 3-4=-1211/699, 4-5=-1406/732, 5-6=0/47
BOT CHORD 2-8=-582/1187, 7-8=-592/1209, 5-7=-575/1190
WEBS 3-8=-201/379, 3-7=-67/73, 4-7=-218/430

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 610 lb uplift at joint 2 and 610 lb uplift at joint 5.
5) Girder carries hip end with 5-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 126 lb up at 7-8-0, and 245 lb down and 126 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

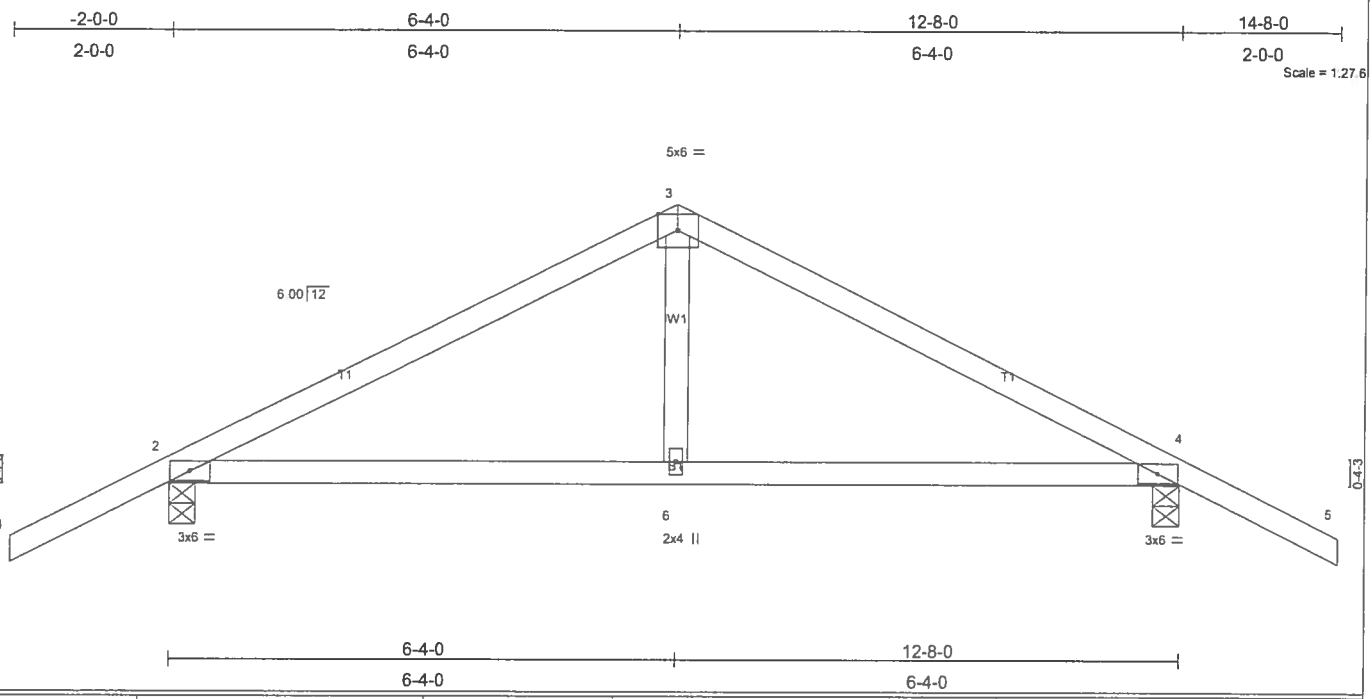
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-90(F=-36), 4-6=-54, 2-8=-30, 7-8=-50(F=-20), 5-7=-30
Concentrated Loads (lb)
Vert: 8=-245(F) 7=-245(F)

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061292

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
L144709	T11	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jan 16 14:21:49 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.09	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.07	4-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 51 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-13 oc bracing.

REACTIONS (lb/size) 2=635/0-4-0, 4=635/0-4-0
Max Horz 2=83(load case 5)
Max Uplift2=-453(load case 5), 4=-453(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-699/762, 3-4=-699/762, 4-5=0/47
BOT CHORD 2-6=-505/559, 4-6=-505/559
WEBS 3-6=-370/217

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 453 lb uplift at joint 2 and 453 lb uplift at joint 4.

LOAD CASE(S) Standard

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0117061293

Job	Truss	Truss Type	Qty	Ply	WOODMAN PARK BLDRS. INC.
TEMP	T12	SPECIAL	1	1	Job Reference (optional)

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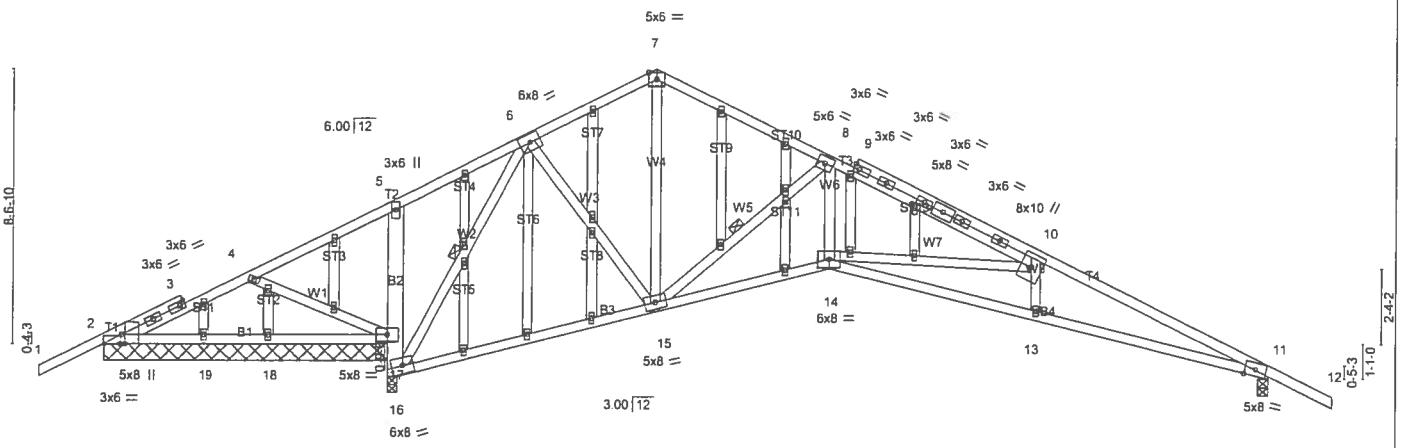
-2-0-0 | 4-7-8 | 8-8-8 | 12-10-10 | 17-0-12 | 22-5-0 | 28-10-9 | 36-1-8

2-0-0 | 4-7-8 | 4-1-0 | 4-2-2 | 4-2-2 | 5-4-4 | 6-5-9 | 7-2-15

Scale = 1:68.4
Camber = 3/16 in



8-8-8 | 17-0-12 | 22-5-0 | 28-10-9 | 36-1-8

8-8-8 | 8-4-4 | 5-4-4 | 6-5-9 | 7-2-15

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [38:0-1-12,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.81	Vert(LL)	-0.37	13-14	>876	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.60	13-14	>544	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.24	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 262 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T2 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D *Except*
B1 2 X 4 SYP No.2, B2 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-3 oc bracing.
WEBS 1 Row at midpt 6-16, 8-15

REACTIONS (lb/size) 2=115/8-8-8, 17=1129/8-8-8, 16=2475/8-8-8, 16=2475/8-8-8, 11=1305/0-4-0, 18=-55/8-8-8, 19=105/8-8-8
Max Horz 2=-199(load case 6)
Max Uplift2=-225(load case 5), 17=-542(load case 5), 16=-664(load case 5), 11=-577(load case 6), 18=-55(load case 1), 19=-7(load case 6)
Max Grav 2=301(load case 9), 17=1129(load case 1), 16=2475(load case 1), 16=2475(load case 1), 11=1305(load case 1), 18=73(load case 6), 19=105(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-211/1174, 3-4=-239/1240, 4-5=-517/1745, 5-6=-256/1407, 6-7=-1118/624, 7-8=-1179/627, 8-9=-2872/1204, 9-10=-3008/1196, 10-11=-4133/1645, 11-12=0/46
BOT CHORD 2-19=-1067/383, 18-19=-1067/383, 17-18=-1067/383, 16-17=0/0, 5-17=-763/472, 15-16=-20/301, 14-15=-773/2752, 13-14=-1338/3744, 11-13=-1334/3761
WEBS 4-17=-549/377, 6-16=-2767/990, 6-15=-283/1188, 7-15=-124/170, 8-15=-2294/913, 8-14=-493/1744, 10-14=-960/546, 10-13=0/224

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 542 lb uplift at joint 17, 664 lb uplift at joint 16, 577 lb uplift at joint 11, 55 lb uplift at joint 18 and 7 lb uplift at joint 19.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-114(F=-60), 5-7=-141(F=-87), 7-8=-141(F=-87), 8-12=-54, 2-17=-30, 14-16=-30, 11-14=-30

JANUARY 17, 2006 TRUSS DESIGN ENGINEER:
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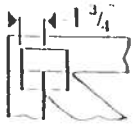
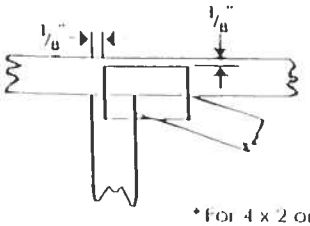
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

* This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

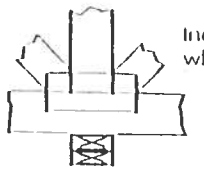
4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

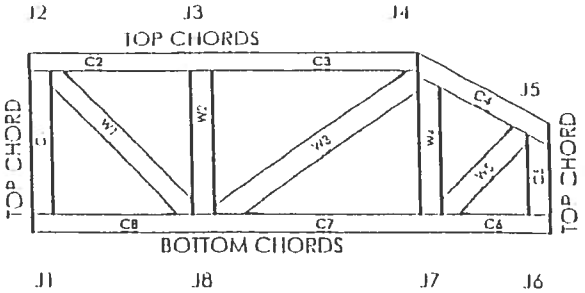
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-H
HER	561

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transfering connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

DUCT SYSTEM SUMMARY
Entire House
LARRY RESMONDO A/C

Job: COLUMBE RESIDENCE
2/15/06

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

	HEATING	COOLING
External Static Pressure:	***0.10*** in H2O	0.00 in H2O
Pressure Losses:	0.50 in H2O	0.50 in H2O
Available Static Pressure:	-0.4 in H2O	-0.5 in H2O
Friction Rate:	***0.100*** in/100ft	***0.100*** in/100ft
Actual AVF:	1150 cfm	1150 cfm

Total Effective Length (TEL): 165 ft

Supply Branch Detail Table

Name	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Duct Matl	Trnk
WHOLE HOUSE	3769	3571	192	192	0.100	718	7	0x 0	ShMt	st1
WHOLE HOUSE-A	3767	3569	192	192	0.100	717	7	0x 0	ShMt	st1A
WHOLE HOUSE-B	3767	3569	192	192	0.100	717	7	0x 0	ShMt	st1A
WHOLE HOUSE-C	3767	3569	192	192	0.100	717	7	0x 0	ShMt	st1B
WHOLE HOUSE-D	3767	3569	192	192	0.100	717	7	0x 0	ShMt	st1
WHOLE HOUSE-E	3767	3569	192	192	0.100	717	7	0x 0	ShMt	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Vel (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1	Peak AVF	1150	1150	824	16	0 x 0	ShtMetl	
st1A	Peak AVF	575	575	871	11	0 x 0	ShtMetl	st1
st1B	Peak AVF	192	192	717	7	0 x 0	ShtMetl	st1A

Return Branch Detail Table

Name	Diffus Sz (in)	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Duct Matl	Trunk
rb1	0 x 0	22602	21414	1150	1150	0.100	651	18	0x 0	ShMt	

Bold/italic values have been manually overridden

RIGHT-J BUILDING ANALYSIS REPORT
Entire House
LARRY RESMONDO A/C

Job: COLUMBE RESIDENCE
2/15/06

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

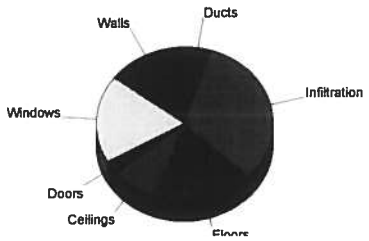
Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration	
Method	Simplified
Construction quality	Average
Fireplaces	0

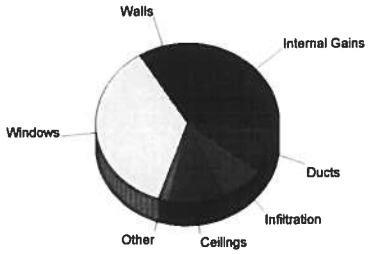
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.8	3324	14.7
Windows	25.5	4189	18.5
Doors	17.0	715	3.2
Ceilings	1.2	1843	8.2
Floors	30.0	4068	18.0
Infiltration	35.9	7386	32.7
Ducts		1076	4.8
Total		**22600**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.6	1862	8.7
Windows	47.4	7767	36.3
Doors	9.5	398	1.9
Ceilings	1.4	2042	9.5
Floors	0.0	0	0.0
Infiltration	8.2	1697	7.9
Ducts		1946	9.1
Internal gains		5700	26.6
Total		**21411**	**100.0**



Cooling at 85 % SHR = 2.1 ton
Cooling at 70 % SHR = 2.5 ton
Cooling air flow = 560 cfm/ton
Cooling at 400 cfm/ton = 2.9 ton
Overall U-Value = 0.127 Btuh/ft²-°F

Data entries checked.

RIGHT-J LOAD AND EQUIPMENT SUMMARY
Entire House
LARRY RESMONDO A/C

Job: COLUMBE RESIDENCE
2/15/06

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	52	gr/lb

Heating Summary

Building heat loss	22600	Btuh
Ventilation air	0	cfm
Ventilation air loss	0	Btuh
Design heat load	22600	Btuh

Sensible Cooling Equipment Load Sizing

Structure	21411	Btuh
Ventilation	0	Btuh
Design temperature swing	3.0	°F
Use mfg. data	n	
Rate/swing multiplier	0.97	
Total sens. equip. load	20769	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1509	1509
Volume (ft³)	13583	13583
Air changes/hour	0.8	0.4
Equiv. AVF (cfm)	181	91

Latent Cooling Equipment Load Sizing

Internal gains	690	Btuh
Ventilation	0	Btuh
Infiltration	3181	Btuh
Total latent equip. load	3871	Btuh
Total equipment load	24640	Btuh

Heating Equipment Summary

Make RUUD AIR COND
Trade Ruud UPNJ Series
UPNJ-036JA

Efficiency	3.4 HSPF	
Heating input	0	Btuh
Heating output	0	Btuh
Heating temp rise	0	°F
Actual heating fan	1150	cfm
Heating air flow factor	0.051	cfm/Btuh

Space thermostat

Cooling Equipment Summary

Make RUUD AIR COND
Trade Ruud UPNJ Series
UPNJ-036JA
UBHB-21+RCHJ-36A2

Efficiency	13.0 SEER	
Sensible cooling	23800	Btuh
Latent cooling	10200	Btuh
Total cooling	34000	Btuh
Actual cooling fan	1150	cfm
Cooling air flow factor	0.054	cfm/Btuh
Load sensible heat ratio	85	%

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

RIGHT-J SHORT FORM
Entire House

LARRY RESMONDO A/C

Job: COLUMBE RESIDENCE
2/15/06

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make RUUD AIR COND
Trade Ruud UPNJ Series
UPNJ-036JA

Efficiency	3.4 HSPF	
Heating input	0	Btuh
Heating output	0	Btuh
Heating temperature rise	0	°F
Actual heating fan	1150	cfm
Heating air flow factor	0.051	cfm/Btuh

Space thermostat

COOLING EQUIPMENT

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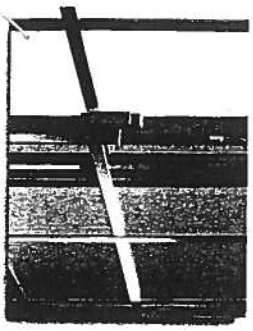
Efficiency	13.0 SEER	
Sensible cooling	23800	Btuh
Latent cooling	10200	Btuh
Total cooling	34000	Btuh
Actual cooling fan	1150	cfm
Cooling air flow factor	0.054	cfm/Btuh
Load sensible heat ratio	85	%

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
WHOLE HOUSE	1509	22600	21411	1150	1150
Entire House d	1509	22600	21411	1150	1150
Ventilation air		0	0		
Equip. @ 0.97 RSM			20769		
Latent cooling			3871		
TOTALS	1509	22600	24640	1150	1150

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

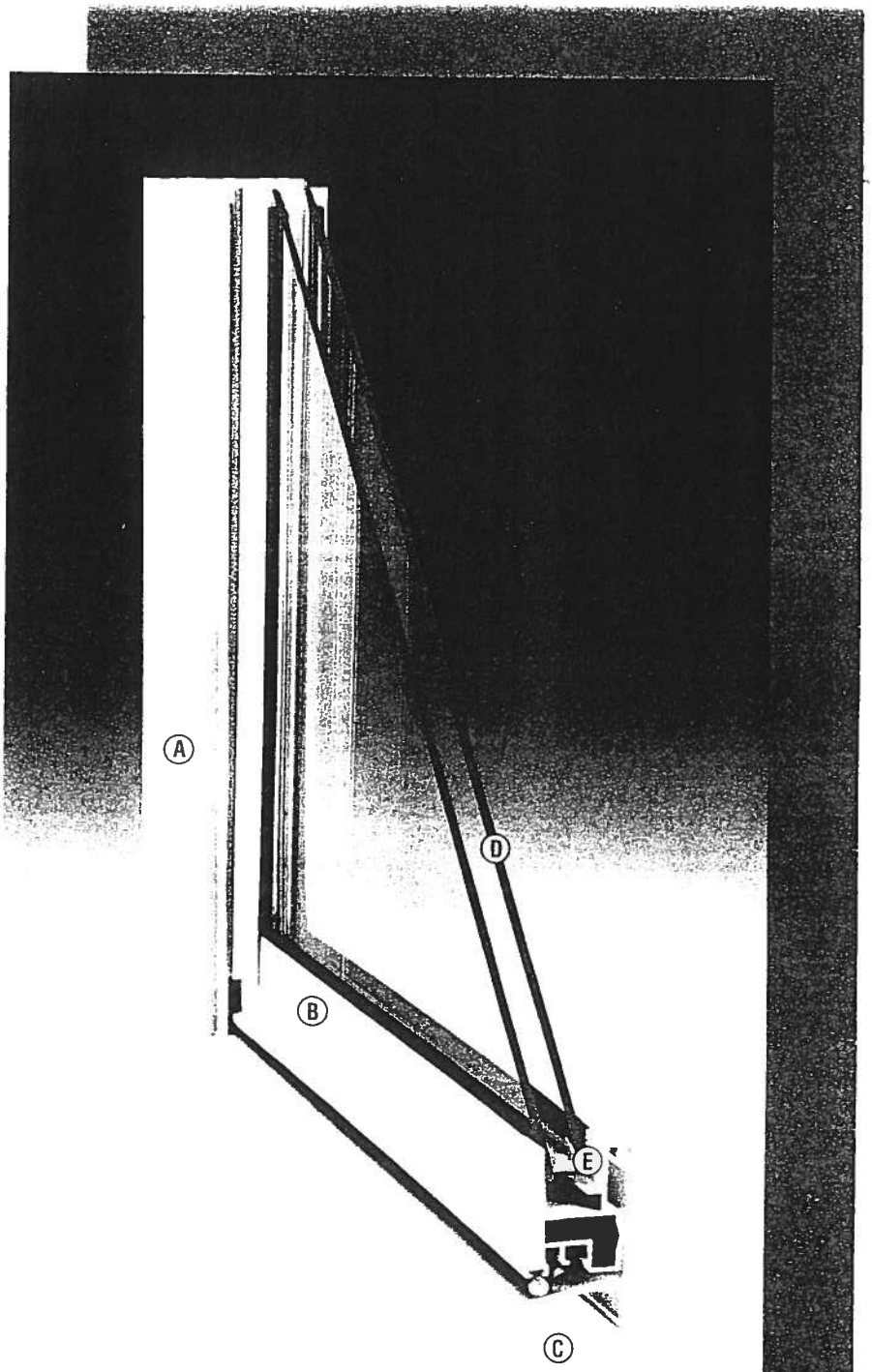


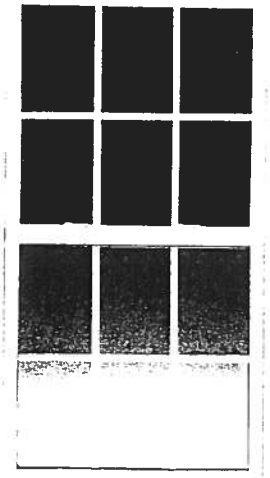
650 SERIES

Non-Thermal Single Hung Aluminum Windows

Ideal for warmer climates, this durable single hung offers plenty of features.

- Aluminum Tilt-Single Hung
- Block & Tackle Balance
- Sweep Lock System at Meeting Rail
- Inside Removable Meeting Rail for Easy Drywall Pass Thru.
- Interlock System at Meeting Rail
- Optional Decorative Grids Between the Glass
- Complete Specialty Window and Mulling Accessories Available
- AAMA Labeled and NFRC Certified





A Aluminum Main Frame

B Aluminum Sash

C 2 3/8" Frame Depth

D 5/8" Insulated Glass

E Removable Bottom Glass Is Marine Glazed In Sash Frame
Removable Top Glass Is Drop-In Tape Glazed In Main Frame

CAPITOL™
WINDOWS AND DOORS

650 SERIES

Single Hung Opening Specifications

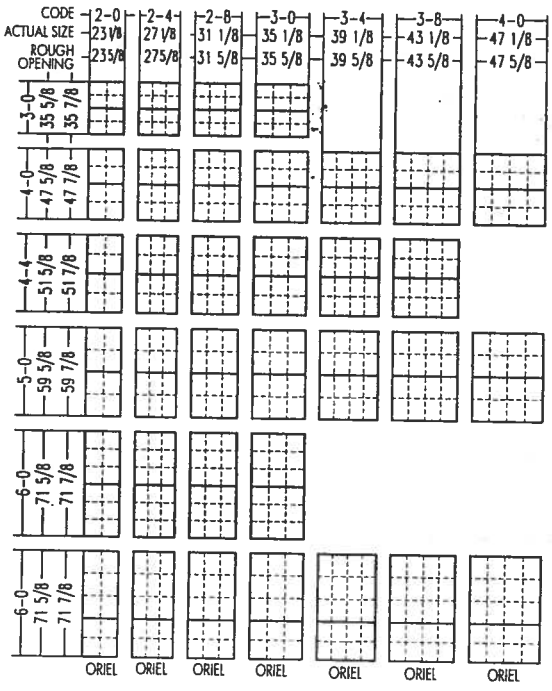
NOMINAL UNIT SIZE	SASH RAISED SQ. FT. CLEAR OPENING	SASH RAISED CLEAR OPENING WIDTH X HEIGHT (INCH x INCH)	SASH REMOVED SQ. FT. CLEAR OPENING	SASH REMOVED CLEAR OPENING WIDTH X HEIGHT (INCH x INCH)	VENT AREA SQ. FT.	VISIBLE LITE SQ. FT.	SCREEN SIZE WIDTH x HEIGHT	GLASS SIZE WIDTH x HEIGHT
2'0 x 3'0	1.68	18 1/8 x 13 5/16	1.93	18 1/8 x 15 5/16	1.91	3.72	19 1/4 x 17	19 x 16
2'0 x 4'0	2.43	18 1/8 x 19 5/16	2.68	18 1/8 x 21 5/16	2.65	5.21	19 1/4 x 23	19 x 22
2'0 x 4'4	2.68	18 1/8 x 21 5/16	2.93	18 1/8 x 23 5/16	2.90	5.71	19 1/4 x 25	19 x 24
2'0 x 5'0	3.19	18 1/8 x 25 5/16	3.44	18 1/8 x 27 5/16	3.39	6.70	19 1/4 x 29	19 x 28
2'0 x 6'0	3.94	18 1/8 x 31 5/16	4.19	18 1/8 x 33 5/16	4.13	8.19	19 1/4 x 35	19 x 34
2'0 x 6'0 ORIEL	3.19	18 1/8 x 25 5/16	3.44	18 1/8 x 27 5/16	3.39	8.19	19 1/4 x 29	19 x 40 TOP 19 x 28 BOTTOM
2'4 x 3'0	2.05	22 1/8 x 13 5/16	2.35	22 1/8 x 15 5/16	2.34	4.56	23 1/4 x 17	23 x 16
2'4 x 4'0	2.97	22 1/8 x 19 5/16	3.27	22 1/8 x 21 5/16	3.25	6.38	23 1/4 x 23	23 x 22
2'4 x 4'0	3.27	22 1/8 x 21 5/16	3.58	22 1/8 x 23 5/16	3.55	6.99	23 1/4 x 25	23 x 24
2'4 x 5'0	3.89	22 1/8 x 25 5/16	4.20	22 1/8 x 27 5/16	4.15	8.20	23 1/4 x 29	23 x 28
2'4 x 6'0	4.81	22 1/8 x 31 5/16	5.12	22 1/8 x 33 5/16	5.06	10.03	23 1/4 x 35	23 x 34
2'4 x 6'0 ORIEL	3.89	22 1/8 x 25 5/16	4.20	22 1/8 x 27 5/16	4.15	10.03	23 1/4 x 29	23 x 40 TOP 23 x 28 BOTTOM
2'8 x 3'0	2.42	26 1/8 x 13 5/16	2.78	26 1/8 x 15 5/16	2.77	5.39	27 1/4 x 17	27 x 16
2'8 x 4'0	3.50	26 1/8 x 19 5/16	3.87	26 1/8 x 21 5/16	3.84	7.55	27 1/4 x 23	27 x 22
2'8 x 4'4	3.87	26 1/8 x 21 5/16	4.23	26 1/8 x 23 5/16	4.20	8.27	27 1/4 x 25	27 x 24
2'8 x 5'0	4.59	26 1/8 x 25 5/16	4.96	26 1/8 x 27 5/16	4.92	9.70	27 1/4 x 29	27 x 28
2'8 x 6'0	5.68	26 1/8 x 31 5/16	6.04	26 1/8 x 33 5/16	5.99	11.86	27 1/4 x 35	27 x 34
2'8 x 6'0 ORIEL	4.59	26 1/8 x 25 5/16	4.96	26 1/8 x 27 5/16	4.92	11.86	27 1/4 x 29	27 x 40 TOP 27 x 28 BOTTOM
3'0 x 3'0	2.78	30 1/8 x 13 5/16	3.20	30 1/8 x 15 5/16	3.20	6.22	31 1/4 x 17	31 x 16
3'0 x 4'0	4.04	30 1/8 x 19 5/16	4.46	30 1/8 x 21 5/16	4.44	8.71	31 1/4 x 23	31 x 22
3'0 x 4'4	4.46	30 1/8 x 21 5/16	4.88	30 1/8 x 23 5/16	4.86	9.54	31 1/4 x 25	31 x 24
3'0 x 5'0	5.30	30 1/8 x 25 5/16	5.71	30 1/8 x 27 5/16	5.68	11.20	31 1/4 x 29	31 x 28
3'0 x 6'0	6.55	30 1/8 x 31 5/16	6.97	30 1/8 x 33 5/16	6.92	13.69	31 1/4 x 35	31 x 34
3'0 x 6'0 ORIEL	5.30	30 1/8 x 25 5/16	5.71	30 1/8 x 27 5/16	5.68	13.69	31 1/4 x 29	31 x 40 TOP 31 x 28 BOTTOM
3'4 x 4'0	4.58	34 1/8 x 19 5/16	5.05	34 1/8 x 21 5/16	5.04	9.88	35 1/4 x 23	35 x 22
3'4 x 4'4	5.05	34 1/8 x 21 5/16	5.52	34 1/8 x 23 5/16	5.51	10.82	35 1/4 x 25	35 x 24
3'4 x 5'0	6.00	34 1/8 x 25 5/16	6.47	34 1/8 x 27 5/16	6.45	12.70	35 1/4 x 29	35 x 28
3'4 x 6'0 ORIEL	6.00	34 1/8 x 25 5/16	6.47	34 1/8 x 27 5/16	6.45	15.53	35 1/4 x 29	35 x 40 TOP 35 x 28 BOTTOM
3'8 x 4'0	5.11	38 1/8 x 19 5/16	5.64	38 1/8 x 21 5/16	5.64	11.05	39 1/4 x 23	39 x 22
3'8 x 4'4	5.64	38 1/8 x 21 5/16	6.17	38 1/8 x 23 5/16	6.16	12.10	39 1/4 x 25	39 x 24
3'8 x 5'0	6.70	38 1/8 x 25 5/16	7.23	38 1/8 x 27 5/16	7.21	14.20	39 1/4 x 29	39 x 28
3'8 x 6'0 ORIEL	6.70	38 1/8 x 25 5/16	7.23	38 1/8 x 27 5/16	7.21	17.36	39 1/4 x 29	39 x 40 TOP 39 x 28 BOTTOM
4'0 x 4'0	5.65	42 1/8 x 19 5/16	6.23	42 1/8 x 21 5/16	6.23	12.21	43 1/4 x 23	43 x 22
4'0 x 5'0	7.40	42 1/8 x 25 5/16	7.99	42 1/8 x 27 5/16	7.97	15.70	43 1/4 x 29	43 x 28
4'0 x 6'0 ORIEL	7.40	42 1/8 x 25 5/16	7.99	42 1/8 x 27 5/16	7.97	15.70	43 1/4 x 29	43 x 40 TOP 43 x 28 BOTTOM

CAPITOL™
WINDOWS AND DOORS

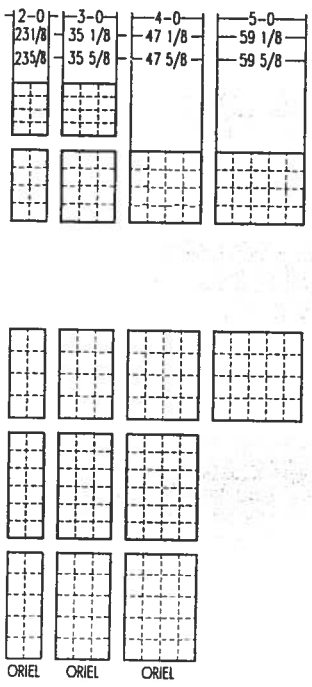
650 SERIES

Non-Thermal Aluminum Single Hung & Specialty - Standard Window Unit Sizes Available

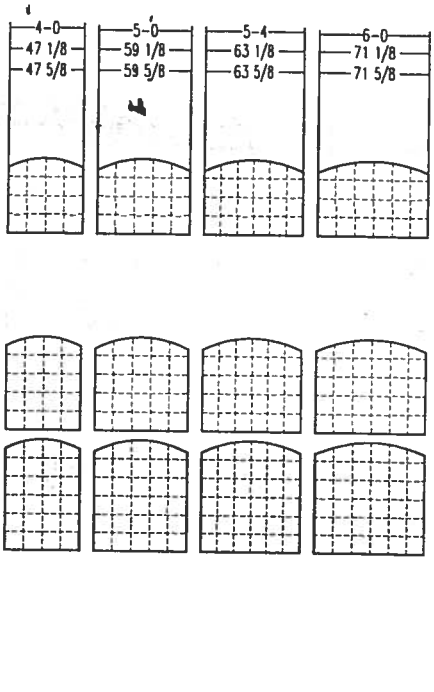
SINGLE HUNG WINDOW SIZES



PICTURE WINDOW SIZES



ARCH TOP SIZES



MEMBER

Validator: ALI®

QUALITY CONTROL & TESTING

AAMA CERTIFICATION PROGRAM

ACCREDITED BY: AMERICAN NATIONAL STANDARDS INSTITUTE

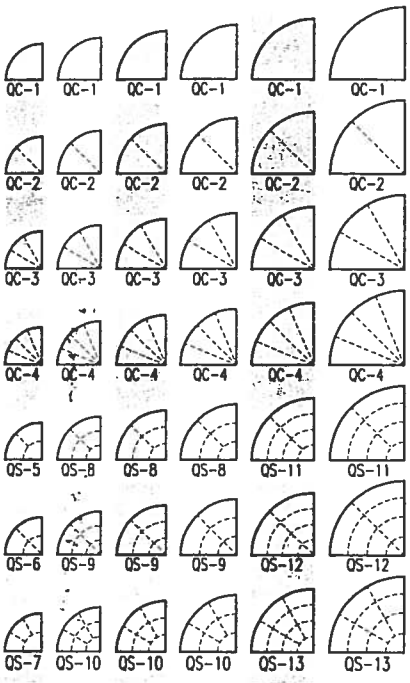
CODE: MTL-4

National Fenestration Rating Council CERTIFIED

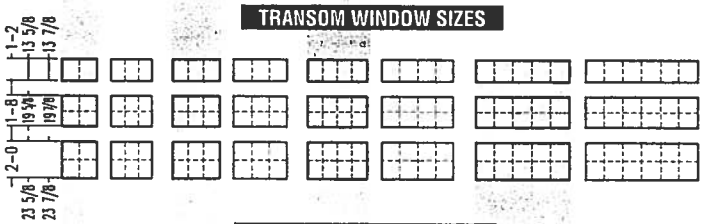
EPA DOE

Some products may require special glazing options to meet certain Energy Star criteria. Contact your sales representative for more information.

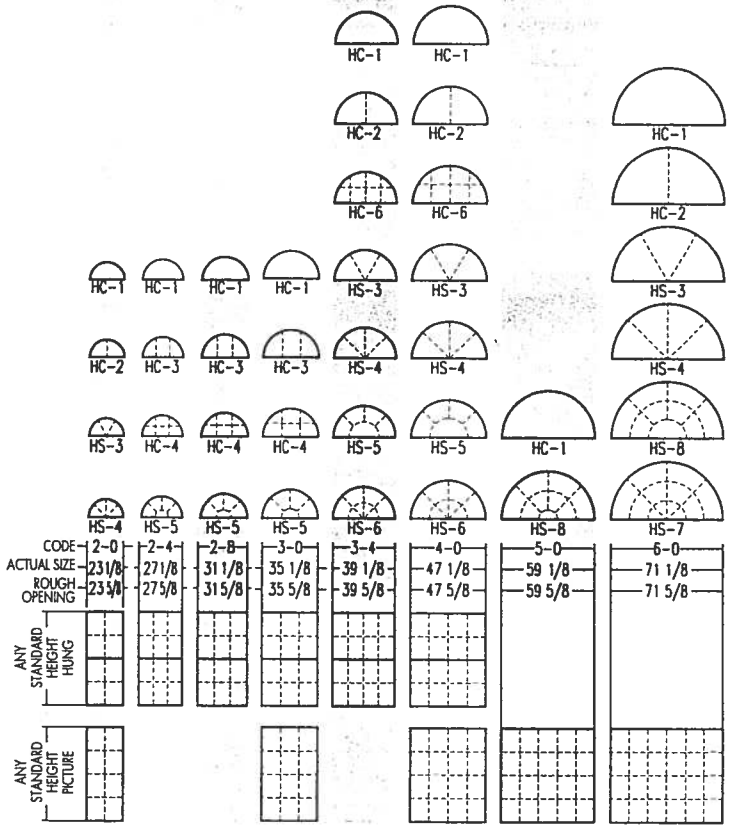
QUARTER CIRCLE WINDOW SIZES



TRANSOM WINDOW SIZES

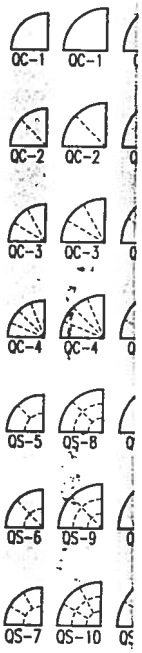


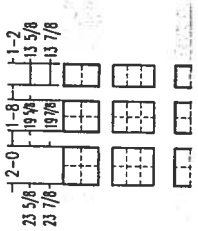
CIRCLE TOP WINDOW SIZES

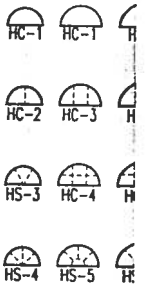


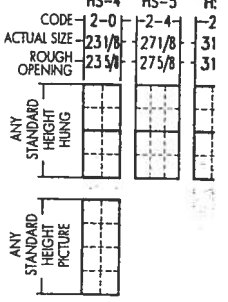
NOTE: Actual height of circle top = Actual width divided by 2 + 9/16"
Rough Opening height of circle top = Actual Height (calculated above) + 1/2"

QUART









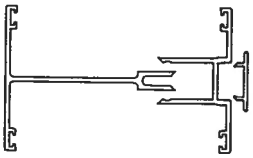
NOTE: Actua
Roug

[redacted]

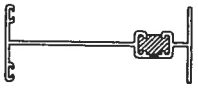
650 SERIES

Non-Thermal Single Hung Aluminum Windows

MULLIONS AVAILABLE

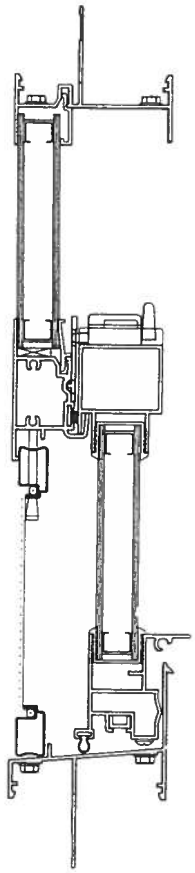


CM–45028
CM–45029 3-PIECE
CM–45030
11/16" ADD ON



CM–65024 H–MULL
1/8" ADD ON

VERTICAL DETAIL



HORIZONTAL DETAIL

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☑	☑	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☐	☑	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☑	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☑	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
☑	☑	**Elevations including:** a) All sides
☑	☑	b) Roof pitch
☐	☑	c) Overhang dimensions and detail with attic ventilation

d) Location, size and height above roof of chimneys.
e) Location and size of skylights
f) Building height
e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned.
b) Shear walls identified.
c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
d) Show safety glazing of glass, where required by code.
e) Identify egress windows in bedrooms, and size.
f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

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

Roof System:

a) Truss package including:
   1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
   2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:
   1. Rafter size, species and spacing
   2. Attachment to wall and uplift
   3. Ridge beam sized and valley framing and support details
   4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall
   1. All materials making up wall
   2. Block size and mortar type with size and spacing of reinforcement
   3. Lintel, tie-beam sizes and reinforcement
   4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
   5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
   6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
   7. Fire resistant construction (if required)
   8. Fireproofing requirements
   9. Shoe type of termite treatment (termiticide or alternative method)
   10. Slab on grade
      a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
      b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
   11. Indicate where pressure treated wood will he placed
   12. Provide insulation R value for the following:
      a. Attic space
      b. Exterior wall cavity

c. Crawl space (if applicable)

b) Wood frame wall
1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

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

Floor Framing System:

a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
b) Floor joist size and spacing
c) Girder size and spacing
d) Attachment of joist to girder
e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
b) Ceiling fans
c) Smoke detectors
d) Service panel and sub-panel size and location(s)
e) Meter location with type of service entrance (overhead or underground)
f) Appliances and HVAC equipment
g) Arc Fault Circuits (AFCI) in bedrooms
h) Exhaust fans in bathroom

HVAC information

a) Energy Calculations (dimensions shall match plans)
b) Manual J sizing equipment or equivalent computation
c)Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

***Notice Of Commencement Required Before Any Inspections Will Be Done**

Private Potable Water

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

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

Reference to a building permit application Number: 0602-85

Woodman Park Builders Owner Rick Coulombe

On the date of March 10, 2006 application 0602-85and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0602-85 when making reference to this application.

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
2. Please have the designers of the plans affix there name and signature to the submitted plans.
3. In each bedroom electrical circuits shall have AFCI protection circuit protection. Please make note to this requirement on the electrical plan.
4. A. In the garage area show compliance with the FRC-2004 Sections R309.1 Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel

Need NEED TO KNOW IF THERE IS A FAMILY RELATIONSHIP BETWEEN SELLER + BUYER OF PROPERTY

doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors. This would also include the 3'0" door in the AC/WH room.

B. R309.1.1 Duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

C. R309.2 Separation required: The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent. This would also include the attic access door to have the same fire rating as the door requirements of section R309.1 sited above.

5. For the electrical service overcurrent protection device shall be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

RETURN FAX.
758-2160 Attn: Terry/Wessie

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000001008

DATE: 07/25/2006 BUILDING PERMIT NO. 24250

APPLICANT BRENDA TERRY PHONE 755-2411

ADDRESS PO BOX 3535 LAKE CITY FL 32056

OWNER RICK & SANDY COULOMBE PHONE 321-724-4783

ADDRESS 3827 SW BIRLEY RD LAKE CITY FL 32024

CONTRACTOR WILLIAM WOOD PHONE 755-8699

LOCATION OF PROPERTY 90 W, L PINEMOUNT, L BIRLEY RD, 1.7 MILES TO EASEMENT ON LEFT.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT

PARCEL ID # 17-4S-16-03051-008

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: Brenda Terry

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: DATE: 7-25-06

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

JUL 25 2006
BY:

RETURN FAX.
758-2160 Attn: Terry/Wesley

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000001008

DATE: 07/25/2006 BUILDING PERMIT NO. 24250

APPLICANT BRENDA TERRY PHONE 755-2411

ADDRESS PO BOX 3535 LAKE CITY FL 32056

OWNER RICK & SANDY COULOMBE PHONE 321-724-4783

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COMMENTS:

SIGNED: [signature] DATE: 7-25-06

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

RETURN FAX: 758-2160 ATTN: PERRY/WEEGIE

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000001008

DATE: 07/25/2006 BUILDING PERMIT NO. 24250

APPLICANT: BRENDA TERRY PHONE: 755-2411

ADDRESS: PO BOX 3535 LAKE CITY FL 32056

OWNER: RICK & SANDY COULOMBE PHONE: 321-724-4783

ADDRESS: 3827 SW BIRLEY RD LAKE CITY FL 32024

CONTRACTOR: WILLIAM WOOD PHONE: 755-8699

LOCATION OF PROPERTY: 90 W, L PINEMOUNT, L BIRLEY RD, 1.7 MILES TO EASEMENT ON LEFT.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ____ ____ ____ ____ ____

PARCEL ID # 17-4S-16-03051-008

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SIGNATURE: Brenda Terry

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: ____________________ DATE: ____________________

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

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-269-4871

April 21, 2006

24250

Building and Zoning, Columbia County, Florida

Re: Site Evaluation, WoodmanPark, Coulombe, Rick Residence, 08-4S-16-03051-008, Columbia County, FL

Dear Building Inspector:

The elevation of the top of the stem wall foundation as prepped for slab by builder is clearly less than one foot above the elevation of the county road, Birley Rd at a point immediately in front of the house.

Based on topo maps, FEMA Flood Insurance Rate Map, and visual inspection the proposed finished floor elevation, the top of the stem wall foundation as prepped for slab by builder, is at an adequate elevation to avoid flooding.

Flood Zone of Home Site: Zone X; Based on the FEMA rate map, attached.

Home Site Natural Grade, Elevation: about 105 - 110 ft; Based on topo map, attached.

Zone A flood zone 600' to south of home site, Elevation: about 100 ft; Based on topo map, attached..

Proposed Finished Floor Elevation: 0 - 32" above natural grade in the perimeter of the house.

Observations: This house is slightly higher (about 5 - 10 ft) than nearby isolated flood Zone A established by FEMA based on estimation of the flood zone elevations from the topo map. There is clearly continuous slope drainage to this isolated flood zone. This area seems to rely on infiltration of water into the ground more than runoff to a river. The finished floor is about 4 – 6 feet higher than two neighboring houses on parcels 17-4S-16-03051-108 and 17-4S-16-03051-107 which were built in 2002 and 2004.

The finished floor elevation must be minimum 6" above finished grade per FBC2004. The finished grade should slope down from that elevation for another 6" within 12 feet away from the house in all directions so that all runoff drains away from the house. The owner must maintain the swales, slopes, and ditch to provide free drainage to the ditch and prevent any possibility of storm water backing up into the house.

The owner should be aware that if free drainage is not maintained thru fields and across roads and thru culverts to the sink holes, or if future development in the area causes increased storm water run off, or if rainfall occurs with greater flooding effect than the design storm, the level of the nearby Zone A could rise higher than anticipated and his house would be more susceptible to flooding.

Sincerely,

21 APR 06

Mark Disosway, PE

Columbia - 24250

R403.1 General.

All exterior walls shall be supported on continuous solid or fully grouted masonry or concrete footings, wood foundations, or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings shall be supported on undisturbed natural soils or engineered fill.

R403.1.1 Minimum size.

Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least 6 inches (152 mm) in thickness. Footing projections, P, shall be at least 2 inches (51 mm) and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1. Footings for wood foundations shall be in accordance with the details set forth in Section R403.2, and Figures R403.1(2) and R403.1(3).

R403.1.4 Minimum depth.

All exterior footings shall be placed at least 12 inches (305 mm) below the undisturbed ground surface.

R403.1.5 Slope.

The top surface of footings shall be level. The bottom surface of footings shall not have a slope exceeding one unit vertical in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footings or where the slope of the bottom surface of the footings will exceed one unit vertical in ten units horizontal (10-percent slope).

R403.1.6 Foundation anchorage.

When braced wall panels are supported directly on continuous foundations, the wall wood sill plate or cold-formed steel bottom track shall be anchored to the foundation in accordance with this section.

The wood sole plate at exterior walls on monolithic slabs and wood sill plate shall be anchored to the foundation with anchor bolts spaced a maximum of 6 feet (1829 mm) on center. There shall be a minimum of two bolts per plate section with one bolt located not more than 12 inches (305 mm) or less than seven bolt diameters from each end of the plate section. Bolts shall be at least ½ inch (12.7 mm) in diameter and shall extend a minimum of 7 inches (178 mm) into masonry or concrete. Interior bearing wall sole plates on monolithic slab foundations shall be positively anchored with approved fasteners. A nut and washer shall be tightened on each bolt to the plate. Sills and sole plates shall be protected against decay and termites where required by Sections R319 and R320. Cold-formed steel framing systems shall be fastened to the wood sill plates or anchored directly to the foundation as required in Section R505.3.1 or R603.1.1.

Exception: Foundation anchor straps, spaced as required to provide equivalent anchorage to ½-inch-diameter (12.7 mm) anchor bolts.

R403.1.6.1 Reserved.

R403.1.7 Footings on or adjacent to slopes.

The placement of buildings and structures on or adjacent to slopes steeper than 1 unit vertical in 3 units horizontal (33.3-percent slope) shall conform to Sections R403.1.7.1 through R403.1.7.4.

R403.1.7.1 Building clearances from ascending slopes.

In general, buildings below slopes shall be set a sufficient distance from the slope to provide protection from slope drainage, erosion and shallow failures. Except as provided in Section R403.1.7.4 and Figure R403.1.7.1, the following criteria will be assumed to provide this protection. Where the existing slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the toe of the slope shall be assumed to be at the intersection of a horizontal plane drawn from the top of the foundation and a plane drawn tangent to the slope at an angle of 45 degrees (0.79 rad) to the horizontal. Where a retaining wall is constructed at the toe of the slope, the height of the slope shall be measured from the top of the wall to the top of the slope.

R403.1.7.2 Footing setback from descending slope surfaces.

Footings on or adjacent to slope surfaces shall be founded in material with an embedment and setback from the slope surface sufficient to provide vertical and lateral support for the footing without detrimental settlement. Except as provided for in Section R403.1.7.4 and Figure R403.1.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the required setback shall be measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope.

R403.1.7.3 Foundation elevation.

On graded sites, the top of any exterior foundation shall extend above the elevation of the street gutter at point of discharge or the inlet of an approved drainage device a minimum of 12 inches (305 mm) plus 2 percent. Alternate elevations are permitted subject to the approval of the building official, provided it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site.

R403.1.7.4 Alternate setback and clearances.

Alternate setbacks and clearances are permitted, subject to the approval of the building official. The building official is permitted to require an investigation and recommendation of a qualified engineer to demonstrate that the intent of this section has been satisfied. Such an investigation shall include consideration of material, height of slope, slope gradient, load intensity and erosion characteristics of slope material.

R403.1.8 Foundations on expansive soils.

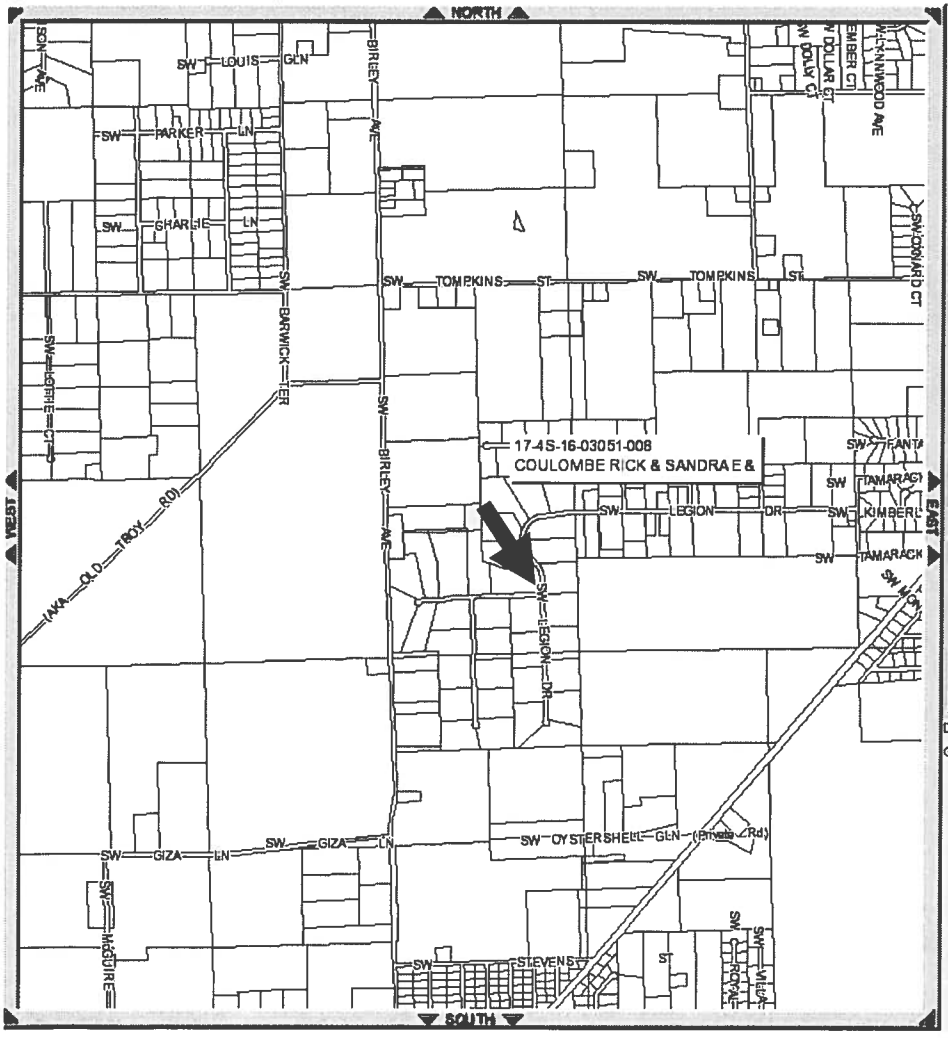
Foundation and floor slabs for buildings located on expansive soils shall be designed in accordance with Section 1805.8 of the Florida Building Code, Building.

Exception: Slab-on-ground and other foundation systems which have performed adequately in soil conditions similar to those encountered at the building site are permitted subject to the approval of the building official.

R403.1.8.1 Expansive soils classifications.

Soils meeting all four of the following provisions shall be considered expansive, except that tests to show compliance with Items 1, 2 and 3 shall not be required if the test prescribed in Item 4 is conducted.

1. Plasticity index (PI) of 15 or greater, determined in accordance with ASTM D 4318.
2. More than 10 percent of the soil particles pass a No. 200 sieve (75 mm), determined in accordance with ASTM D 422.
3. More than 10 percent of the soil particles are less than 5 micrometers in size, determined in accordance with ASTM D 422.
4. Expansion Index greater than 20, determined in accordance with ASTM D 4829.



PIN	17-4S-16-03051-008
Use	NO AG ACRE (009900)
Yr Blt	
Desc	COMM AT NW COR OF NW1/4 OF SE1/4, RUN S 499.50 FT, E 1101.38 FT FOR POB, CONT E

OWNER INFO	
Name	COULOMBE RICK & SANDRA E &
Site	
Mail	DEBRA A MOORADIAN JTWRS 1613 DALLAM AVE NW PALM BAY, FL 32907

ASSESSMENT INFO	
LndVal	$26,130.00
AgVal	$0.00
BldVal	$0.00
AprVal	$26,130.00
JustVal	$26,130.00
Assd	$26,130.00
Exmpt	$0.00
Taxable	$26,130.00

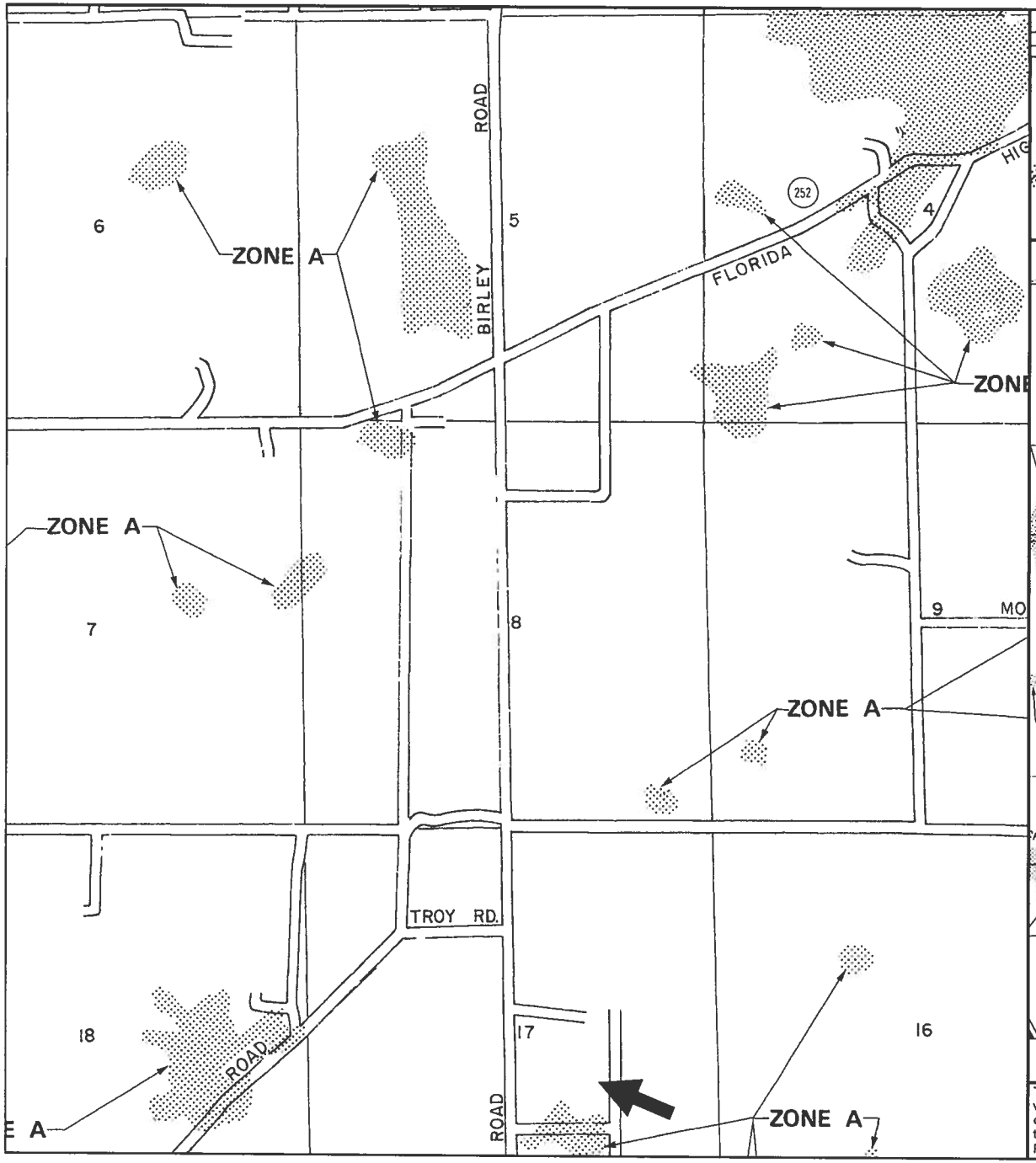
SALES INFO		
1/20/2006	$100.00	V / U
10/3/2005	$100.00	V / U

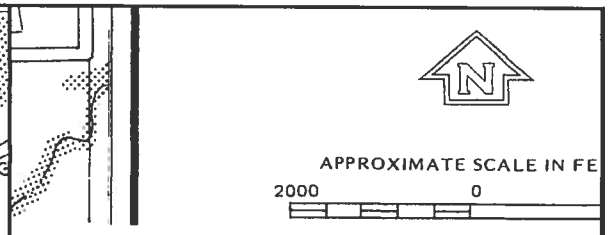
SEARCH RESULTS

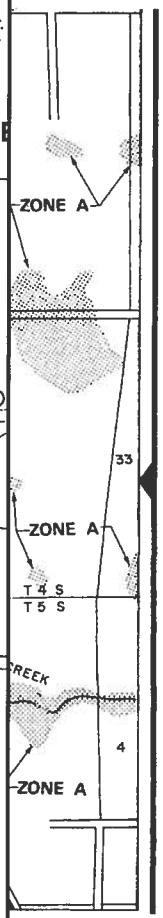
☑ Highlight Parcel
☑ Label Parcel
☑ Auto-Zoom Parcel

1 of 1

DB Last Updated: 4/6/2006
GIS Map Updated: 4/6/2006







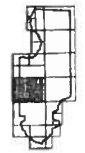
NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION

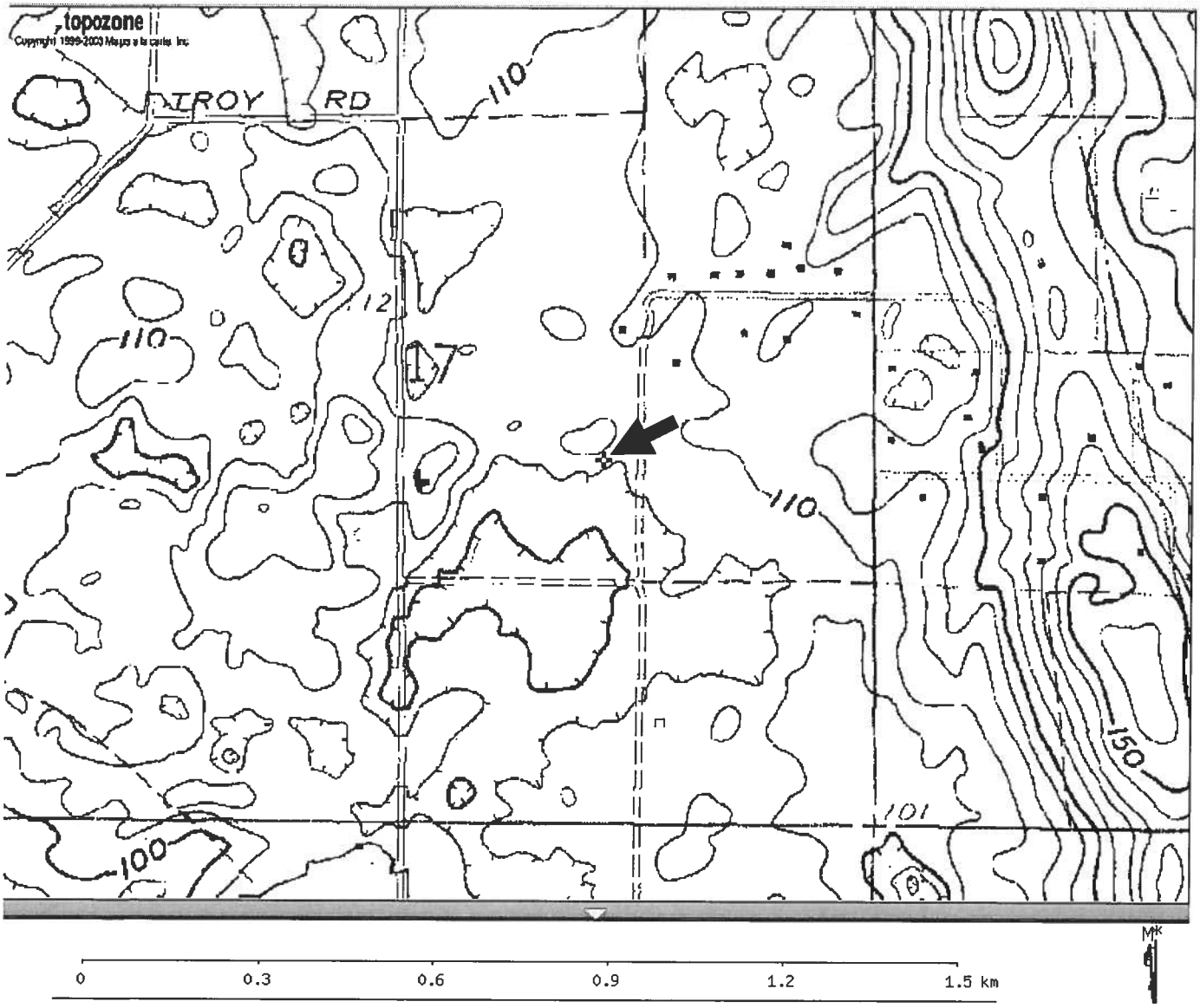


COMMUNITY-PANEL NUMBER
120070 0175 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www msc fema gov


topozone
Copyright 1999-2003 Maps a la carte Inc.
TROY RD
110
12
17
110
110
150
101
100
0
0.3
0.6
0.9
1.2
1.5 km

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

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

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

24250

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109576 Company Phone No. 386-755-3611
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Woodmen Park Builders Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Cavalombe Residence
3827 Old Bircley Rd.
Lake City, FL 32024

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1' Inside 2' Type of Fill Sand

Section 4: Treatment Information

Date(s) of Treatment(s) 4/19/06
Brand Name of Product(s) Used Cyper TC
EPA Registration No. 58328-92
Approximate Final Mix Solution % .5%
Approximate Size of Treatment Area: Sq. ft. 2219 Linear ft. 267 Linear ft. of Masonry Voids 250
Approximate Total Gallons of Solution Applied 520 gals
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

Name of Applicator(s) S. Gregory Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Date 4/19/06

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 17-4S-16-03051-008 **Building permit No.** 000024250

Use Classification SFD,UTILITY **Fire:** 11.84

Permit Holder WILLIAM WOOD **Waste:** 24.50

Owner of Building RICK & SANDY COULOMBE **Total:** 36.34

Location: 3827 SW BIRLEY ROAD

Date: 08/01/2006

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)