DATE 04/11/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026923

APPLICANT BECKY DUGAN PHONE 752-8653

ADDRESS P.O. BOX 815 LAKE CITY FL 32056

OWNER BRYAN ZECHER PHONE 752-8653

ADDRESS 699 SW MANDIBA DRIVE LAKE CITY FL 32024

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 41S, TR ON CR 131, TR ON MANDIBA DRIVE, 1ST LOT ON RIGHT AFTER STOP SIGN

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 173350.00

HEATED FLOOR AREA 2258.00 TOTAL AREA 3467.00 HEIGHT 27.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB

LAND USE & ZONING PRRD MAX. HEIGHT 27

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

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

PARCEL ID 18-5S-17-09280-122 SUBDIVISION THE OAKS OF LAKE CITY

LOT 22 BLOCK PHASE UNIT TOTAL ACRES 1.00

000001584		CBC054575	X Becky Dugan	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
CULVERT	08-278	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD,
MFE AT 95', CONFIRMATION LETTER IS REQUIRED BEFORE SLAB

Check # or Cash 26324

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by | Foundation _____ date/app. by | Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by | Slab _____ date/app. by | Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by | Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by | Heat & Air Duct _____ date/app. by | Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by | C.O. Final _____ date/app. by | Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by | Pool _____ date/app. by

Reconnection _____ date/app. by | Pump pole _____ date/app. by | Utility Pole _____ date/app. by

M/H Pole _____ date/app. by | Travel Trailer _____ date/app. by | Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 870.00 CERTIFICATION FEE $ 17.34 SURCHARGE FEE $ 17.34

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

FLOOD DEVELOPMENT FEE $ _____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 1004.68

INSPECTORS OFFICE _____ CLERKS OFFICE CH

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

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

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

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

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

26923

PERMIT NO._____ TAX FOLIO NO.:_____

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

Lot 22, OAKS OF LAKE PHASE I, a subdivision recorded in Plat Book 9, Pages 46-52 of the public records of Columbia County, Florida

2. General description of improvement: Construction of Dwelling

3. Owner information:
a. Name and address: BRYAN ZECHER CONSTRUCTION, INC. Post Office Box 815, Lake City, Florida 32056

b. Interest in property: Fee Simple

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

4. Contractor: BRYAN ZECHER CONSTRUCTION, INC.
Post Office Box 815
Lake City, Florida 32056

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

6. Lender: LIBERTY SAVINGS BANK, F.S.B.
12276 San Jose Blvd., Ste 101, Jacksonville, Florida 32223

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

8. In addition to himself, Owner designates LIBERTY SAVINGS BANK, F.S.B., 12276 San Jose Blvd, Ste 101, Jacksonville, Florida 32223 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). May 15, 2008.

BRYAN ZECHER CONSTRUCTION, INC.

By:_____
Bryan Zecher, President

The foregoing instrument was acknowledged before me this 15th day of May, 2007, by BRYAN ZECHER, President of BRYAN ZECHER CONSTRUCTION, INC., a Florida corporation. who is personally known to me and who did not take an oath.

Inst 200812009557 Date 5/16/2008 Time 10:34 AM
DC,P DeWitt Cason,Columbia County Page 1 of 1 B 1150 P

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By: Bonnie Dow
Deputy Clerk
Date 05-16-2008

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

_____
Notary Public

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

26923

Donald F. Lee & Associates, Inc.
Surveyors & Engineers

D.F.L.

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

Friday, April 25, 2008

FROM: Tim Delbene, P.L.S.

TO: Columbia County Building & Zoning Dept.

CC: Bryan Zecher Construction

RE: Floor Elevation Check – Lot 22 – Oaks at Lake City

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

Finished Floor Elevation: 97.21'

The minimum required floor elevation for this Lot is 95.0', as shown on the record subdivision plat of Oaks at Lake City .

SIGNED: Timothy A. Delbene

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

DATE: 4/25/2008.

Columbia County Building Permit Application

For Office Use Only Application # 0804-15 Date Received 4/7/08 By CT Permit # 1584/26923

Zoning Official BLK Date 10.04.08 Flood Zone X per plat FEMA Map # N/A Zoning PRRD

Land Use A-3 Elevation N/A MFE 95' per plat River N/A Plans Examiner OKJTH Date 4-10-08

Comments Confirmation letter required before SLAB

☐ NOC ☐ EH ☑ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Authorization from Contractor

☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Septic Permit No. Fax 758-8920

Name Authorized Person Signing Permit Bryan Zecher / Becky Dugan Phone 752-8653

Address PO Box 815 Lake City, FL 32056

Owners Name Bryan Zecher Construction, Inc Phone 752-8653

911 Address 699 SW Mandiba Dr. Lake City, FL 32024

Contractors Name Bryan Zecher Construction, Inc Phone 752-8653

Address PO Box 815 Lake City, FL 32056

Fee Simple Owner Name & Address —

Bonding Co. Name & Address —

Architect/Engineer Name & Address Teena Ruffo / Mark Disosway, P.E.

Mortgage Lenders Name & Address 1st Fed

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

Property ID Number 18-5S-17-09280-122 Estimated Cost of Construction $275,000*

Subdivision Name The Oaks of Lake City Lot 22 Block — Unit — Phase 1

Driving Directions From Hwy 90, go South on Hwy 41 and turn Right onto CR131/ Tustenuggee Ave. After about 7 miles, turn Right onto Mandiba Dr into the southern entrance of The Oaks. Job site is the 1st lot on the Right after sto

Number of Existing Dwellings on Property 0

Construction of single family residence Total Acreage 1.0 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 27'11"

Actual Distance of Structure from Property Lines - Front 40' Side 37' Side 42'5" Rear 188'10"

Number of Stories 1 Heated Floor Area 2258 Total Floor Area 3467 Roof Pitch 7/12 10/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

left message 4/10/08

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee)

Contractor's License Number CBC054575
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7th **day of** April **20** 08.

Personally known ✓ **or Produced Identification** _____

Rebecca Dugan

State of Florida Notary Signature (For the Contractor)

SEAL:

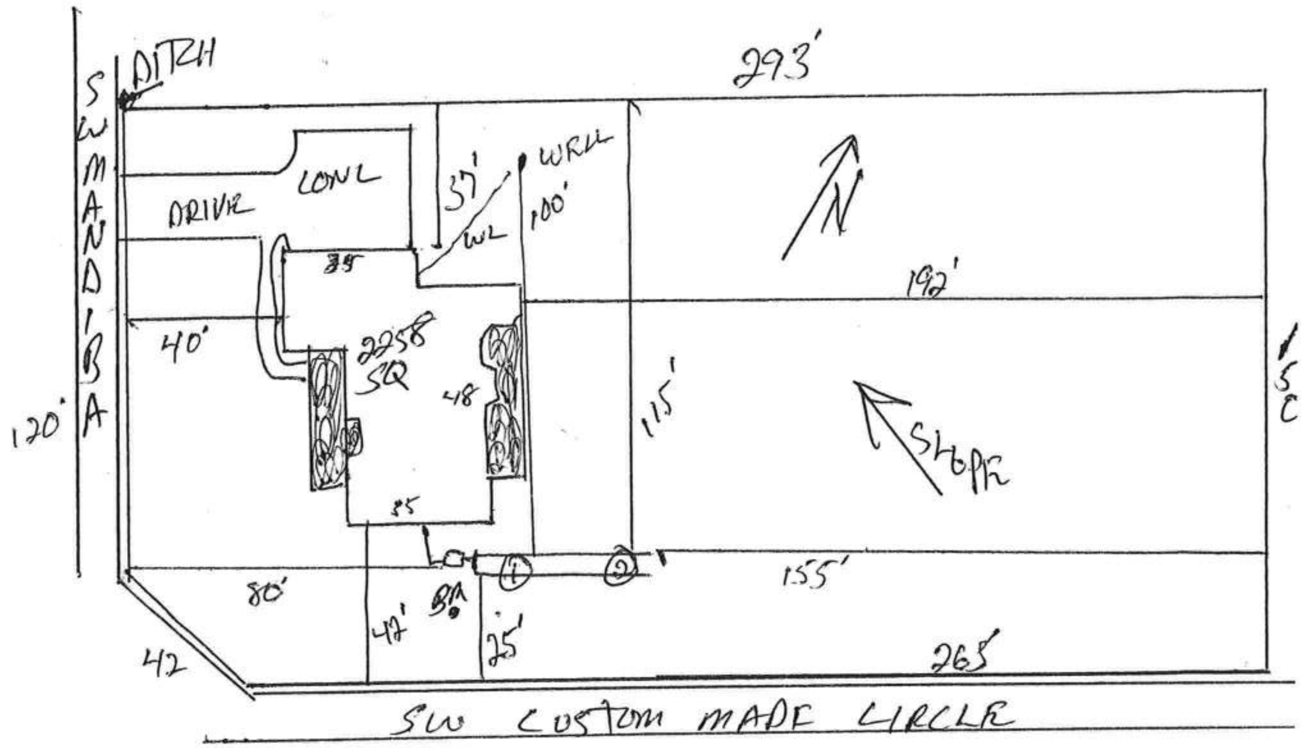
NOTARY PUBLIC STATE OF FLORIDA
REBECCA DUGAN
MY COMMISSION #DD452939
EXPIRES: JUL 20, 2009
Bonded through 1st State Insurance

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION F0R ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0228

---------------------------- PART II - SITEPLAN ----------------------------

Scale: 1 inch = 50 feet.



Notes: ____

Site Plan submitted by: [signature] MASTER CONTRACTOR

Plan Approved X Not Approved_____ Date 4/2/8

By [signature] County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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 REQUESTED: 3/27/2008 **DATE ISSUED:** 4/2/2008

ENHANCED 9-1-1 ADDRESS:

699 SW MANDIBA DR

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

18-5S-17-09280-122

Remarks:

LOT 22 OAKS OF LAKE CITY PHS 1

Address Issued By: _____
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.

1178

WARRANTY DEED

This Warranty Deed made and executed the 20th day of March A.D. 2008, by **OAKS OF LAKE CITY, LLC,** hereinafter called the grantor, to **BRYAN ZECHER CONSTRUCTION, INC.,** Whose post office address is P.O. BOX 815, LAKE CITY, FL 32056, hereinafter called the grantee:

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation)

Witnesseth: That the grantor, for the consideration of the sum of $ 10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz

LOT 22, OAKS OF LAKE CITY PHASE 1, A SUBDIVISION AS RECORDED IN PLAT BOOK 9, PAGES 46-52 , OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, SUBJECT TO RESTRICTIONS RECORDED IN O. R. BOOK 144, PAGES 2574-2644, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, AND SUBJECT TO POWER LINE EASEMENT.

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

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

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

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

OAKS OF LAKE CITY, LLC

Nanci Nettles
Witness: Nanci Nettles

Bradley N Dicks L.S.
Bradley N. Dicks, Managing Member

Ragan Edgley
Witness: Ragan Edgley

State of Florida
County of Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared Bradley N. Dicks, who is personally known to me to be the person described in and who executed the foregoing instrument, who was not required to furnish identification, and he acknowledged before me that he executed the same and who did not take an oath.

WITNESS my hand and official seal in the County and State last aforesaid this 20th day of March, A.D. 2008

Nanci Nettles
Nanci Nettles
Notary Public, State of Florida

NANCI NETTLES MY COMMISSION EXPIRES December 26, 2009 #DD 486936 Bonded thru Notary Public Underwriters NOTARY PUBLIC, STATE OF FLORIDA

This instrument prepared by: Bradley N. Dicks
Address: P.O. Box 513 Lake City, FL 32056

Is
Service

Phone: (386) 752-
Fax: (386) 752-

Lynch Well Drilling, Inc.

173 SW Young Place
Lake City, FL 32025
www.lynchwelldrilling.com

January 14, 2008

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the Anna T. Lynch well:

Size of Pump Motor:	1.5 Horse Power
Size of Pressure Tank:	4 -Gallon Bladder Tank
Cycle Stop Valve Used:	No
Constant Pressure System:	Yes

Should you require any additional information, please contact us.

Sincerely,

Linda Newcomb

Linda Newcomb
Lynch Well Drilling, Inc.

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	803281ZecherBryan	Builder:	Zecher
Address:	Lot: 22, Sub: The Oaks, Plat:	Permitting Office:	Columbia
City, State:	, FL	Permit Number:	26923
Owner:	Lexington Model	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 51.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	2258 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) 440.5 ft²	a. Electric Heat Pump	Cap: 51.0 kBtu/hr
b. SHGC:			HSPF: 7.90
(or Clear or Tint DEFAULT) 7b.	(Clear) 440.5 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 237.0(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=13.0, 1402.5 ft²		EF: 0.93
b. Frame, Wood, Adjacent	R=13.0, 259.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 2348.0 ft²	15. HVAC credits	
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.20

Total as-built points: 29822

Total base points: 31181

PASS

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

PREPARED BY: _____

DATE: 3-31-08

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

OWNER/AGENT: _____

DATE: 4/7/08

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: The Oaks, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2258.0	20.04	8145.1	Double, Clear	SE	1.5	6.5	30.0	42.75	0.90	1157.3	
				Double, Clear	S	2.5	6.5	15.0	35.87	0.73	395.0	
				Double, Clear	SW	99.0	6.5	15.0	40.16	0.37	221.7	
				Double, Clear	S	13.0	6.5	10.0	35.87	0.45	161.8	
				Double, Clear	E	13.0	6.5	20.0	42.06	0.39	330.0	
				Double, Clear	SE	7.0	6.5	20.0	42.75	0.48	410.8	
				Double, Clear	S	12.0	6.5	20.0	35.87	0.46	326.5	
				Double, Clear	SE	11.0	7.0	36.0	42.75	0.43	656.5	
				Double, Clear	SE	11.0	6.5	30.0	42.75	0.42	533.8	
				Double, Clear	SE	1.5	7.0	36.0	42.75	0.92	1413.8	
				Double, Clear	SW	1.5	0.0	7.5	40.16	0.37	110.8	
				Double, Clear	SW	1.5	0.0	6.0	40.16	0.37	88.7	
				Double, Clear	NW	1.5	8.0	36.0	25.97	0.96	900.7	
				Double, Clear	NW	7.0	8.0	72.0	25.97	0.66	1235.5	
				Double, Clear	NW	10.0	8.7	10.0	25.97	0.61	158.7	
				Double, Clear	NE	1.5	6.0	16.0	29.56	0.92	435.3	
				Double, Clear	SE	1.5	6.0	16.0	42.75	0.88	604.3	
				Double, Clear	NE	1.5	7.0	15.0	29.56	0.94	418.5	
				Double, Clear	NE	1.5	7.0	30.0	29.56	0.94	837.0	
				As-Built Total:				**440.5**			**10396.8**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	259.0	0.70	181.3	Frame, Wood, Exterior	13.0	1402.5	1.50	2103.8
Exterior	1402.5	1.70	2384.3	Frame, Wood, Adjacent	13.0	259.0	0.60	155.4
Base Total:	**1661.5**		**2565.6**	**As-Built Total:**		**1661.5**		**2259.1**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	50.0	4.10	205.0	Adjacent Insulated	20.0	1.60	32.0
				Exterior Insulated	30.0	4.10	123.0
Base Total:	**70.0**		**237.0**	**As-Built Total:**	**70.0**		**237.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2258.0	1.73	3906.3	Under Attic	30.0	2348.0	1.73 X 1.00	4062.0
Base Total:	**2258.0**		**3906.3**	**As-Built Total:**		**2348.0**		**4062.0**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: The Oaks, Plat: , , FL,** PERMIT #:

BASE					AS-BUILT					
FLOOR TYPES	Area	X BSPM	= Points		Type	R-Value	Area	X SPM	= Points	
Slab	237.0(p)	-37.0	-8769.0		Slab-On-Grade Edge Insulation	0.0	237.0(p	-41.20	-9764.4	
Raised	0.0	0.00	0.0							
Base Total:			**-8769.0**		**As-Built Total:**		**237.0**		**-9764.4**	
INFILTRATION	Area	X BSPM	= Points				Area	X SPM	= Points	
	2258.0	10.21	23054.2				2258.0	10.21	23054.2	
Summer Base Points: 29139.1					**Summer As-Built Points:**					**30244.8**
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 51000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
					30245	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	9033.9
29139.1	**0.4266**	**12430.8**			**30244.8**	**1.00**	**1.138**	**0.263**	**1.000**	**9033.9**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: The Oaks, Plat: , , FL,** PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	2258.0	12.74	5178.0

WALL TYPES

	Area X	BWPM	= Points
Adjacent	259.0	3.60	932.4
Exterior	1402.5	3.70	5189.3
Base Total:	**1661.5**		**6121.6**

DOOR TYPES

	Area X	BWPM	= Points
Adjacent	20.0	8.00	160.0
Exterior	50.0	8.40	420.0
Base Total:	**70.0**		**580.0**

CEILING TYPES

	Area X	BWPM	= Points
Under Attic	2258.0	2.05	4628.9
Base Total:	**2258.0**		**4628.9**

AS-BUILT

GLASS TYPES

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
Double, Clear	SE	1.5	6.5	30.0	14.71	1.08	477.2
Double, Clear	S	2.5	6.5	15.0	13.30	1.36	272.2
Double, Clear	SW	99.0	6.5	15.0	16.74	2.03	509.9
Double, Clear	S	13.0	6.5	10.0	13.30	3.51	466.1
Double, Clear	E	13.0	6.5	20.0	18.79	1.45	544.8
Double, Clear	SE	7.0	6.5	20.0	14.71	2.01	590.4
Double, Clear	S	12.0	6.5	20.0	13.30	3.47	923.7
Double, Clear	SE	11.0	7.0	36.0	14.71	2.32	1230.4
Double, Clear	SE	11.0	6.5	30.0	14.71	2.39	1054.9
Double, Clear	SE	1.5	7.0	36.0	14.71	1.07	566.1
Double, Clear	SW	1.5	0.0	7.5	16.74	2.03	255.0
Double, Clear	SW	1.5	0.0	6.0	16.74	2.03	204.0
Double, Clear	NW	1.5	8.0	36.0	24.30	1.00	875.3
Double, Clear	NW	7.0	8.0	72.0	24.30	1.02	1789.3
Double, Clear	NW	10.0	8.7	10.0	24.30	1.03	249.5
Double, Clear	NE	1.5	6.0	16.0	23.57	1.01	379.5
Double, Clear	SE	1.5	6.0	16.0	14.71	1.10	257.9
Double, Clear	NE	1.5	7.0	15.0	23.57	1.00	354.9
Double, Clear	NE	1.5	7.0	30.0	23.57	1.00	709.7
As-Built Total:				**440.5**			**11710.9**

WALL TYPES

Type	R-Value	Area X	WPM	= Points
Frame, Wood, Exterior	13.0	1402.5	3.40	4768.5
Frame, Wood, Adjacent	13.0	259.0	3.30	854.7
As-Built Total:		**1661.5**		**5623.2**

DOOR TYPES

Type	Area X	WPM	= Points
Exterior Insulated	20.0	8.40	168.0
Adjacent Insulated	20.0	8.00	160.0
Exterior Insulated	30.0	8.40	252.0
As-Built Total:	**70.0**		**580.0**

CEILING TYPES

Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	30.0	2348.0	2.05 X 1.00	4813.4
As-Built Total:		**2348.0**		**4813.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: The Oaks, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	237.0(p)	8.9	2109.3	Slab-On-Grade Edge Insulation	0.0	237.0(p	18.80		4455.6
Raised	0.0	0.00	0.0						
Base Total:			**2109.3**	**As-Built Total:**		**237.0**			**4455.6**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	2258.0	-0.59	-1332.2			2258.0	-0.59		-1332.2
Winter Base Points:			**17285.7**	**Winter As-Built Points:**					**25850.9**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 51000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				25850.9	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	12968.1
17285.7	**0.6274**	**10845.0**		**25850.9**	**1.00**	**1.162**	**0.432**	**1.000**	**12968.1**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: The Oaks, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
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
12431	**10845**	**7905**	**31181**	**9034**	**12968**	**7820**	**29822**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 22, Sub: The Oaks, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked 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* = 84.1

The higher the score, the more efficient the home.

Lexington Model, Lot: 22, Sub: The Oaks, Plat: , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 51.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2258 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) 440.5 ft²		a. Electric Heat Pump	Cap: 51.0 kBtu/hr
	b. SHGC:				HSPF: 7.90
	(or Clear or Tint DEFAULT)	7b. (Clear) 440.5 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 237.0(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=13.0, 1402.5 ft²			EF: 0.93
	b. Frame, Wood, Adjacent	R=13.0, 259.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 2348.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: 4/7/08

Address of New Home: 689 SW Mandiba Dr City/FL Zip: LC, FL 32024

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

**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.
000001584

DATE 04/11/2008 PARCEL ID # 18-5S-17-09280-122

APPLICANT BECKY DUGAN PHONE 752-8653

ADDRESS P.O. BOX 815 LAKE CITY FL 32056

OWNER BRYAN ZECHER PHONE 752-8653

ADDRESS 699 SW MANDIBA DRIVE LAKE CITY FL 32024

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 41S, TR ON CR 131, TR ON MANDIBA DRIVE, 1ST LOT ON RIGHT AFTER STOP

SUBDIVISION/LOT/BLOCK/PHASE/UNIT OAKS OF LAKE CITY 22

SIGNATURE Becky Dugan

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

Residential System Sizing Calculation

Summary

Lexington Model

, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

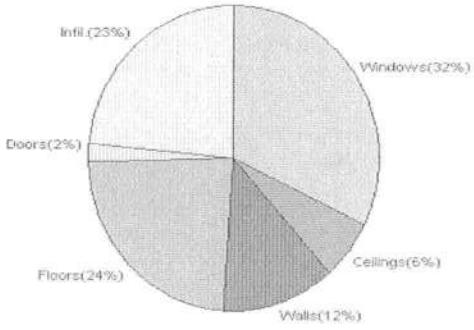
3/31/2008

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**43718**	**Btuh**	**Total cooling load calculation**	**39315**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.7	51000	Sensible (SHR = 0.75)	114.4	38250
Heat Pump + Auxiliary(0.0kW)	116.7	51000	Latent	217.0	12750
			Total (Electric Heat Pump)	129.7	51000

WINTER CALCULATIONS

Winter Heating Load (for 2258 sqft)

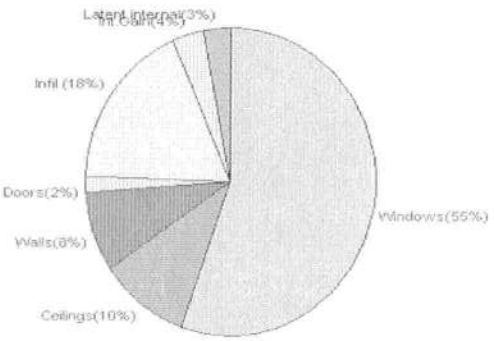
Load component			Load	
Window total	441	sqft	14180	Btuh
Wall total	1662	sqft	5456	Btuh
Door total	70	sqft	907	Btuh
Ceiling total	2348	sqft	2767	Btuh
Floor total	237	sqft	10347	Btuh
Infiltration	248	cfm	10061	Btuh
Duct loss			0	Btuh
Subtotal			**43718**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**43718**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2258 sqft)

Load component			Load	
Window total	441	sqft	21787	Btuh
Wall total	1662	sqft	3316	Btuh
Door total	70	sqft	686	Btuh
Ceiling total	2348	sqft	3888	Btuh
Floor total			0	Btuh
Infiltration	128	cfm	2381	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**33439**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			4676	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**5876**	**Btuh**
TOTAL HEAT GAIN			**39315**	**Btuh**



EnergyGauge® System Sizing
PREPARED BY:
DATE: 3-31-08

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Lexington Model
, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

3/31/2008

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
3	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	N	10.0	32.2	322 Btuh
5	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
7	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
9	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
10	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
11	2, Clear, Metal, 0.87	NE	7.5	32.2	241 Btuh
12	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
13	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
14	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
15	2, Clear, Metal, 0.87	SE	10.0	32.2	322 Btuh
16	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
17	2, Clear, Metal, 0.87	NW	16.0	32.2	515 Btuh
18	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
19	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
	Window Total		441(sqft)		14180 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1403	3.3	4606 Btuh
2	Frame - Wood - Adj(0.09)	13.0	259	3.3	851 Btuh
	Wall Total		1662		5456 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		30	12.9	388 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2348	1.2	2767 Btuh
	Ceiling Total		2348		2767Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	237.0 ft(p)	43.7	10347 Btuh
	Floor Total		237		10347 Btuh
			Zone Envelope Subtotal:		33657 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	22580	248.4	10061 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lexington Model

, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

3/31/2008

Zone #1	**Sensible Zone Subtotal**	**43718 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	43718 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	43718 Btuh

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

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

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Lexington Model
, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

3/31/2008

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
3	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	N	10.0	32.2	322 Btuh
5	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
7	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
9	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
10	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
11	2, Clear, Metal, 0.87	NE	7.5	32.2	241 Btuh
12	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
13	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
14	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
15	2, Clear, Metal, 0.87	SE	10.0	32.2	322 Btuh
16	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
17	2, Clear, Metal, 0.87	NW	16.0	32.2	515 Btuh
18	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
19	2, Clear, Metal, 0.87	SW	30.0	32.2	966 Btuh
	Window Total		441(sqft)		14180 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1403	3.3	4606 Btuh
2	Frame - Wood - Adj(0.09)	13.0	259	3.3	851 Btuh
	Wall Total		1662		5456 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		30	12.9	388 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2348	1.2	2767 Btuh
	Ceiling Total		2348		2767Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	237.0 ft(p)	43.7	10347 Btuh
	Floor Total		237		10347 Btuh
			Zone Envelope Subtotal:		33657 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	22580	248.4	10061 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lexington Model

, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

3/31/2008

Zone #1	**Sensible Zone Subtotal**	**43718 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	43718 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	43718 Btuh

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

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Lexington Model
, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 3/31/2008

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft	6.5ft	30.0	0.0	30.0	29	60	1801 Btuh
2	2, Clear, 0.87, None,N,N	N	2.5ft	6.5ft	15.0	0.0	15.0	29	29	434 Btuh
3	2, Clear, 0.87, None,N,N	NE	99ft.	6.5ft	15.0	0.0	15.0	29	60	901 Btuh
4	2, Clear, 0.87, None,N,N	N	13ft.	6.5ft	10.0	0.0	10.0	29	29	290 Btuh
5	2, Clear, 0.87, None,N,N	W	13ft.	6.5ft	20.0	20.0	0.0	29	80	579 Btuh
6	2, Clear, 0.87, None,N,N	NW	7ft.	6.5ft	20.0	0.0	20.0	29	60	1201 Btuh
7	2, Clear, 0.87, None,N,N	N	12ft.	6.5ft	20.0	0.0	20.0	29	29	579 Btuh
8	2, Clear, 0.87, None,N,N	NW	11ft.	7ft.	36.0	0.0	36.0	29	60	2161 Btuh
9	2, Clear, 0.87, None,N,N	NW	11ft.	6.5ft	30.0	0.0	30.0	29	60	1801 Btuh
10	2, Clear, 0.87, None,N,N	NW	1.5ft	7ft.	36.0	0.0	36.0	29	60	2161 Btuh
11	2, Clear, 0.87, None,N,N	NE	1.5ft	0ft.	7.5	0.0	7.5	29	60	450 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft	0ft.	6.0	0.0	6.0	29	60	360 Btuh
13	2, Clear, 0.87, None,N,N	SE	1.5ft	8ft.	36.0	3.1	32.9	29	63	2146 Btuh
14	2, Clear, 0.87, None,N,N	SE	7ft.	8ft.	72.0	72.0	0.0	29	63	2085 Btuh
15	2, Clear, 0.87, None,N,N	SE	10ft.	8.66	10.0	10.0	0.0	29	63	290 Btuh
16	2, Clear, 0.87, None,N,N	SW	1.5ft	6ft.	16.0	2.1	13.9	29	63	930 Btuh
17	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	16.0	0.0	16.0	29	60	961 Btuh
18	2, Clear, 0.87, None,N,N	SW	1.5ft	7ft.	15.0	1.6	13.4	29	63	885 Btuh
19	2, Clear, 0.87, None,N,N	SW	1.5ft	7ft.	30.0	3.1	26.9	29	63	1771 Btuh
	Window Total				441 (sqft)					21787 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1402.5	2.1	2925 Btuh
2	Frame - Wood - Adj	13.0/0.09	259.0	1.5	391 Btuh
	Wall Total		1662 (sqft)		3316 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	30.0	9.8	294 Btuh
2	Insulated - Adjacent	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	70 (sqft)		686 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2348.0	1.7	3888 Btuh
	Ceiling Total		2348 (sqft)		3888 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	237 (ft(p))	0.0	0 Btuh
	Floor Total		237.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		29677 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.34	22580	128.0	2381 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 230 +	0	1380 Btuh

Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh
		Sensible Zone Load	**33439 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Lexington Model

, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

3/31/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**33439 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**33439 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**33439 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4676 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5876 Btuh**
	TOTAL GAIN	**39315 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Lexington Model
, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

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

3/31/2008

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft	6.5ft	30.0	0.0	30.0	29	60	1801 Btuh
2	2, Clear, 0.87, None,N,N	N	2.5ft	6.5ft	15.0	0.0	15.0	29	29	434 Btuh
3	2, Clear, 0.87, None,N,N	NE	99ft.	6.5ft	15.0	0.0	15.0	29	60	901 Btuh
4	2, Clear, 0.87, None,N,N	N	13ft.	6.5ft	10.0	0.0	10.0	29	29	290 Btuh
5	2, Clear, 0.87, None,N,N	W	13ft.	6.5ft	20.0	20.0	0.0	29	80	579 Btuh
6	2, Clear, 0.87, None,N,N	NW	7ft.	6.5ft	20.0	0.0	20.0	29	60	1201 Btuh
7	2, Clear, 0.87, None,N,N	N	12ft.	6.5ft	20.0	0.0	20.0	29	29	579 Btuh
8	2, Clear, 0.87, None,N,N	NW	11ft.	7ft.	36.0	0.0	36.0	29	60	2161 Btuh
9	2, Clear, 0.87, None,N,N	NW	11ft.	6.5ft	30.0	0.0	30.0	29	60	1801 Btuh
10	2, Clear, 0.87, None,N,N	NW	1.5ft	7ft.	36.0	0.0	36.0	29	60	2161 Btuh
11	2, Clear, 0.87, None,N,N	NE	1.5ft	0ft.	7.5	0.0	7.5	29	60	450 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft	0ft.	6.0	0.0	6.0	29	60	360 Btuh
13	2, Clear, 0.87, None,N,N	SE	1.5ft	8ft.	36.0	3.1	32.9	29	63	2146 Btuh
14	2, Clear, 0.87, None,N,N	SE	7ft.	8ft.	72.0	72.0	0.0	29	63	2085 Btuh
15	2, Clear, 0.87, None,N,N	SE	10ft.	8.66	10.0	10.0	0.0	29	63	290 Btuh
16	2, Clear, 0.87, None,N,N	SW	1.5ft	6ft.	16.0	2.1	13.9	29	63	930 Btuh
17	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	16.0	0.0	16.0	29	60	961 Btuh
18	2, Clear, 0.87, None,N,N	SW	1.5ft	7ft.	15.0	1.6	13.4	29	63	885 Btuh
19	2, Clear, 0.87, None,N,N	SW	1.5ft	7ft.	30.0	3.1	26.9	29	63	1771 Btuh
	Window Total				441 (sqft)					21787 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1402.5	2.1	2925 Btuh
2	Frame - Wood - Adj	13.0/0.09	259.0	1.5	391 Btuh
	Wall Total		1662 (sqft)		3316 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	30.0	9.8	294 Btuh
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3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	70 (sqft)		686 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2348.0	1.7	3888 Btuh
	Ceiling Total		2348 (sqft)		3888 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	237 (ft(p))	0.0	0 Btuh
	Floor Total		237.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:	29677 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.34	22580	128.0	2381 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 230 +	0	1380 Btuh

Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh
		Sensible Zone Load	**33439 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Lexington Model

, FL

Project Title:
803281ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

3/31/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**33439 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**33439 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**33439 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4676 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5876 Btuh**
	TOTAL GAIN	**39315 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

Lexington Model

, FL

Project Title:
803281ZecherBryan

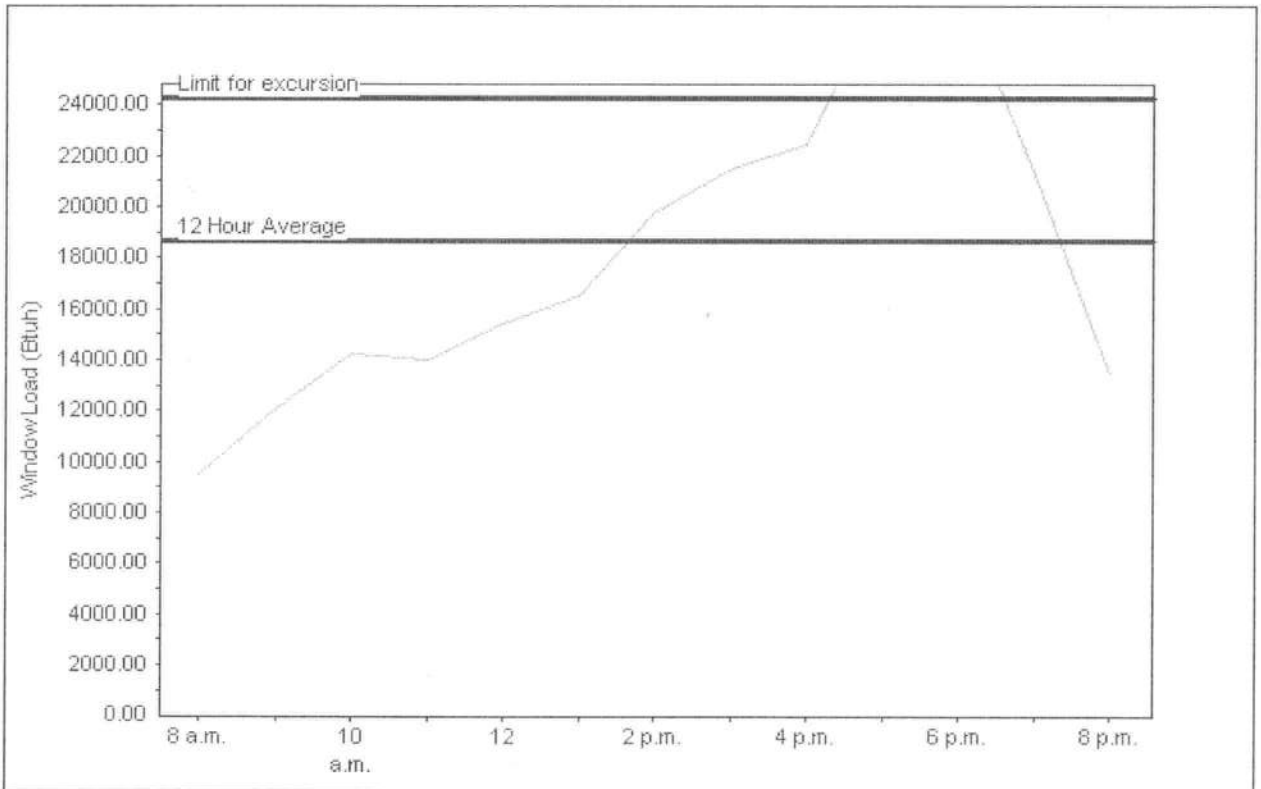
Class 3 Rating
Registration No. 0
Climate: North

3/31/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	18686 Btu
Summer setpoint	75 F	Peak window load for July	29076 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	24292 Btu
Latitude	29 North	Window excursion (July)	4784 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 3-31-08

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____ **Project Name:** _____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital / Jordan		FL 675 / FL 1318-R
2. Horizontal Slider	" "		FL 685 / FL 1384-R
3. Casement	—		
4. Double Hung	—		
5. Fixed	C / J		FL 681 / FL 1383-R
6. Awning	—		
7. Pass -through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11 Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4968
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Elk / Certainteed		FL 728-R1 / FL 250 R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No 2502-0525
(exp. 10/31/2005)

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.

Section 1: General information (Treating Company information)

Company Name: **Florida Pest Control & Co.**

Company Address: **536 SE Baya Dr** City: **Lake City** State: **Fl** Zip **32025**

Company Business License No. **3460** Company Phone No. **386-752-1703**

FHA/VA Case No. (if any) ____

Section 2: Builder Information

Company Name ____ Phone No. ____

Section 3: Property Information

Location of Structure (s) Treated (Street Address or Legal Description, City, State and Zip) ____

Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other ____

Approximate Depth of Footing: Outside ____ Inside ____ Type of Fill ____

Section 4: Treatment Information

Date(s) of Treatment ____

Brand Name of Product(s) Used **Bora-Care**

EPA Registration No. **64405-1**

Approximate Final Mix Solution % **1.0**

Approximate Size of Treatment Area: Sq. ft. ____ Linear ft. ____ Linear ft. of Masonry Voids ____

Approximate Total Gallons of Solution Applied ____

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) ____

Certification No. (if required by State law) ____

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 _____

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)

Form NPCA-99-B may still be used

form **HUD-NPCA-99-B** (04/2003)

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006
Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED 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 SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) **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

GENERAL REQUIREMENTS;

- Two (2) complete sets of plans containing the following:
- All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- Dimensions of lot or parcel of land
- Dimensions of all building set backs
- Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- Plans or specifications must meet state compliance with FRC Chapter 3
- The following information must be shown as per section FRC
- Basic wind speed (3-second gust), miles per hour
- Wind importance factor and nature of occupancy
- Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.

Elevations Drawing including:

- All side views of the structure
- Roof pitch
- Overhang dimensions and detail with attic ventilation
- Location, size and height above roof of chimneys
- Location and size of skylights with Florida Product Approval
- Number of stories
- e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
- All exterior and interior shear walls indicated
- Shear wall opening shown (Windows, Doors and Garage doors
- Emergency escape and rescue opening in each bedroom (net clear opening shown)
- Safety glazing of glass where needed
- Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- N/A Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- Plans must show and identify accessibility of bathroom (see FRC 322)

All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing valve of soil_____ (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

- Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

- N/A Show all materials making up walls, wall height, and Block size, mortar type
- Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- N/A Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers
- Girder type, size and spacing to load bearing walls, stem wall and/or priers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
Fastener schedule for structural members per table R602.3 (1) are to be shown.
Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
Indicate where pressure treated wood will be placed.
Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
A detail showing gable truss bracing, wall balloon framing details or and wall hinge bracing detail

ROOF SYSTEMS:

Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

Rafter and ridge beams sizes, span, species and spacing
Connectors to wall assemblies' include assemblies' resistance to uplift rating.
Valley framing and support details
Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

Manual J sizing equipment or equivalent computation
Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

Switches, outlets/receptacles, lighting and all required GFCI outlets identified
Ceiling fans
Smoke detectors
Service panel, sub-panel, location(s) and total ampere ratings

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. 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. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms

- Notarized Disclosure Statement for Owner Builders

- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

Private Potable Water

- Size of pump motor 1.5
- Size of pressure tank
- Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.

Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)

N/A City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

N/A Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED. A development permit will also be required. The permit cost is $50.00.

Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit ($25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ($50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

26923

Donald F. Lee & Associates, Inc.

Surveyors & Engineers

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

Friday, April 25, 2008

FROM: Tim Delbene, P.L.S.

TO: Columbia County Building & Zoning Dept.

CC: Bryan Zecher Construction

RE: Floor Elevation Check – Lot 22 – Oaks at Lake City

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

Finished Floor Elevation: 97.21'

The minimum required floor elevation for this Lot is 95.0', as shown on the record subdivision plat of Oaks at Lake City .

SIGNED: Timothy A Delbene

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

DATE: 4/25/2008.

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TJO8228Z0231133753

Truss Fabricator:	Anderson Truss Company
Job Identification:	8-092--BRYAN ZECHER Lot #22 The Oaks -- , **
Truss Count:	45
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.36, 7.37.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Seal Date: 07/31/2008

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

Details: BRCLBSUB-A11015EE-GBLLETIN-PIGBACKA-PIGBACKB-A11030EC-A11030EE-CNBRGBLK-

#	Ref	Description	Drawing#	Date
1	64237	--A1	08213003	07/31/08
2	64238	--C	08213004	07/31/08
3	64239	--CGE	08213005	07/31/08
4	64240	--M-2	08213006	07/31/08
5	64241	--M	08213007	07/31/08
6	64242	--M1	08213008	07/31/08
7	64243	--MGE	08213009	07/31/08
8	64244	--AP	08213010	07/31/08
9	64245	--AP2	08213011	07/31/08
10	64246	--AP3	08213012	07/31/08
11	64247	--M-3	08213013	07/31/08
12	64248	--D1	08213047	07/31/08
13	64249	--D	08213014	07/31/08
14	64250	--DGE	08213018	07/31/08
15	64251	--B1	08213019	07/31/08
16	64252	--B2	08213020	07/31/08
17	64253	--EJ	08213015	07/31/08
18	64254	--L-1	08213021	07/31/08
19	64255	--EJG	08213022	07/31/08
20	64256	--B3	08213023	07/31/08
21	64257	--B4	08213024	07/31/08
22	64258	--B5	08213025	07/31/08
23	64259	--B7	08213026	07/31/08
24	64260	--B6	08213027	07/31/08
25	64261	--B8	08213028	07/31/08
26	64262	--B9	08213029	07/31/08
27	64263	--E4	08213030	07/31/08
28	64264	--E3	08213031	07/31/08
29	64265	--E2	08213016	07/31/08
30	64266	--E1	08213017	07/31/08
31	64267	--B	08213032	07/31/08
32	64268	--AGE	08213033	07/31/08
33	64269	--B14	08213034	07/31/08
34	64270	--BGE1	08213035	07/31/08
35	64271	--AP1	08213036	07/31/08
36	64272	--B11	08213037	07/31/08
37	64273	--B12	08213038	07/31/08
38	64274	--B13	08213039	07/31/08
39	64275	--B10	08213040	07/31/08
40	64276	--AP7	08213041	07/31/08
41	64277	--AP6	08213042	07/31/08
42	64278	--AP5	08213043	07/31/08
43	64279	--AP4	08213044	07/31/08
44	64280	--EGE	08213045	07/31/08
45	64281	--BGE	08213046	07/31/08

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
 Document ID:1TJO8228Z0231133753

Truss Fabricator:	Anderson Truss Company
Job Identification:	8-092--BRYAN ZECHER Lot #22 The Oaks -- , **
Truss Count:	3
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.36, 7.37.
Structural Engineer of Record:	
Address:	
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration Floor - N/A Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Seal Date: 07/31/2008

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

Revised Trusses

#	Ref	Description	Drawing#	Date
1	64276--AP7		08213041	07/31/08
2	64278--AP5		08213043	07/31/08
3	64279--AP4		08213044	07/31/08

(8-092--BRYAN ZECHER Lot #22 The Oaks -- , ** - A1)

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

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

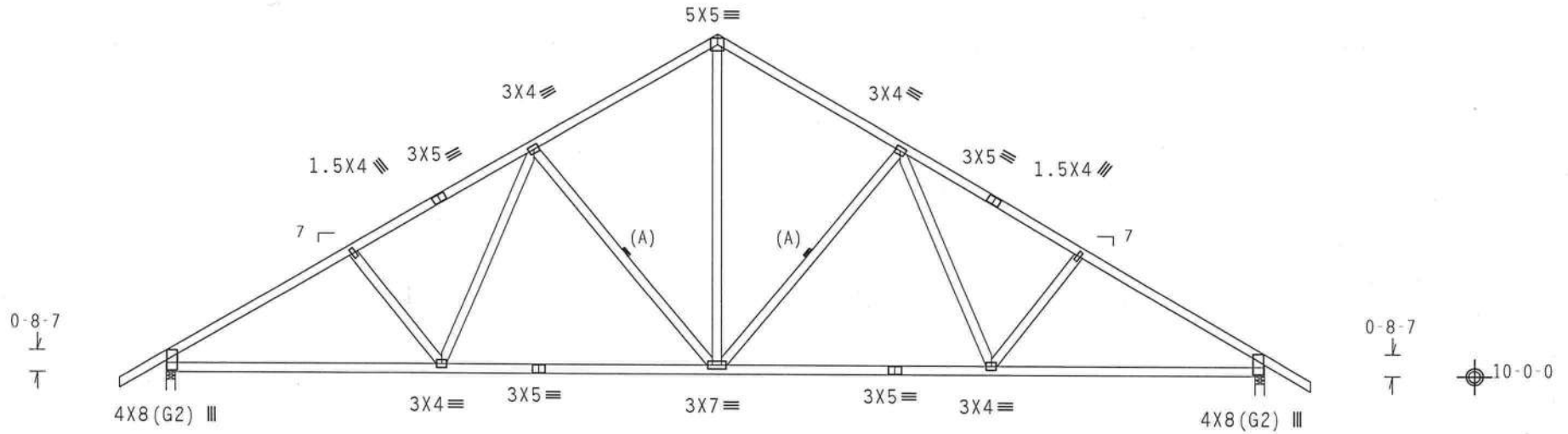
Roof overhang supports 2.00 psf soffit load.

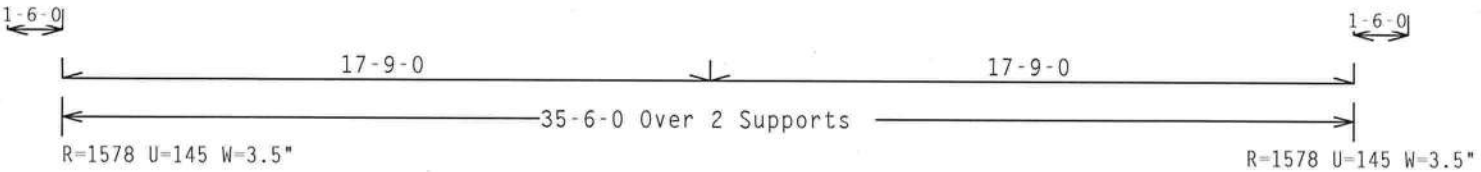
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.44 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.36.00 QTY:6 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

31 '08

TC LL	20.0 PSF	REF	R8228- 64237
TC DL	10.0 PSF	DATE	07/31/08
BC DL	10.0 PSF	DRW	HCUSR8228 08213003
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	37590
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TJ08228Z02

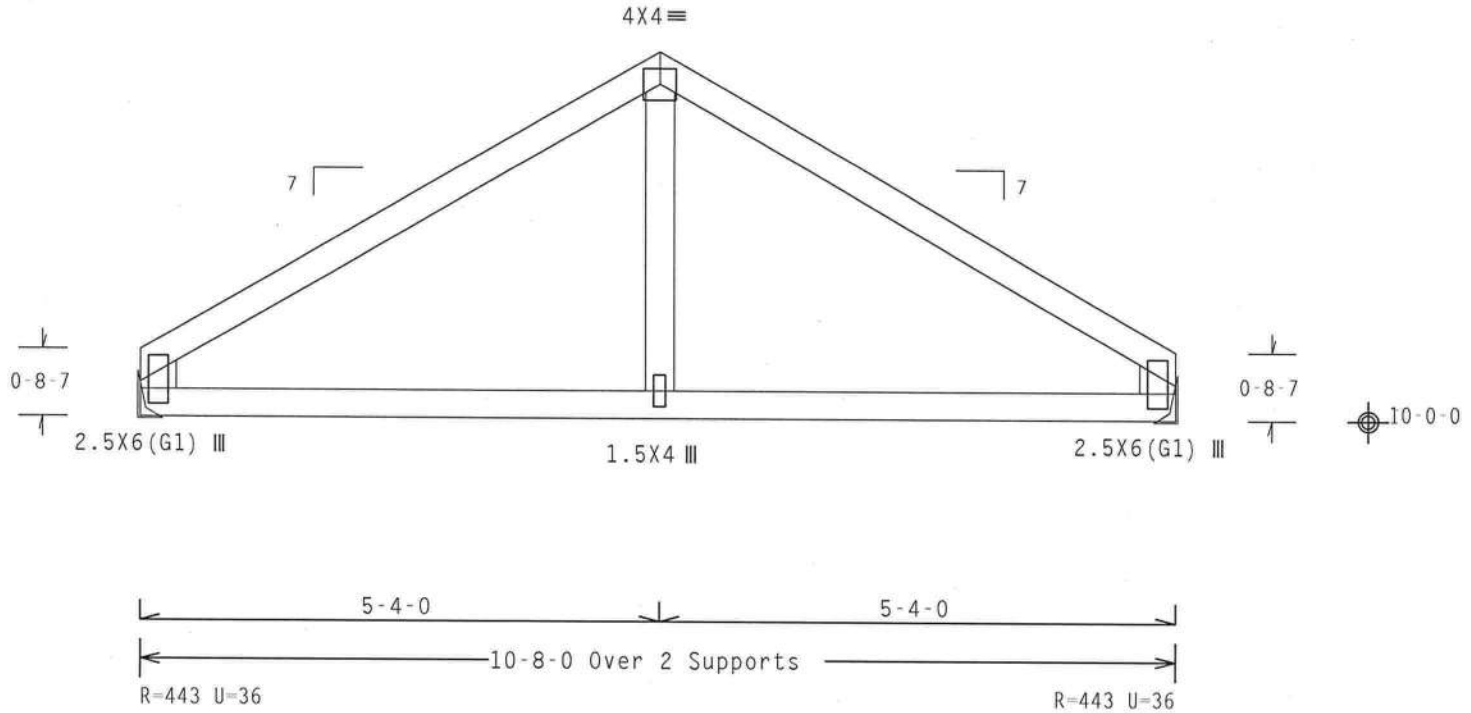
(8-092- BRYAN ZECHER Lot #22 The Oaks -- , ** - C)

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

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

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.36.00 07/31 QTY:4 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
JUL 31 '08

TC LL	20.0 PSF	REF	R8228- 64238
TC DL	10.0 PSF	DATE	07/31/08
BC DL	10.0 PSF	DRW	HCUSR8228 08213004
BC LL	0.0 PSF	HC-ENG	JB/DF *
TOT.LD.	40.0 PSF	SEQN-	37596
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TJ08228Z02

(8-092--BRYAN ZECHER Lot #22 The Oaks -- , ** - CGE)

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

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

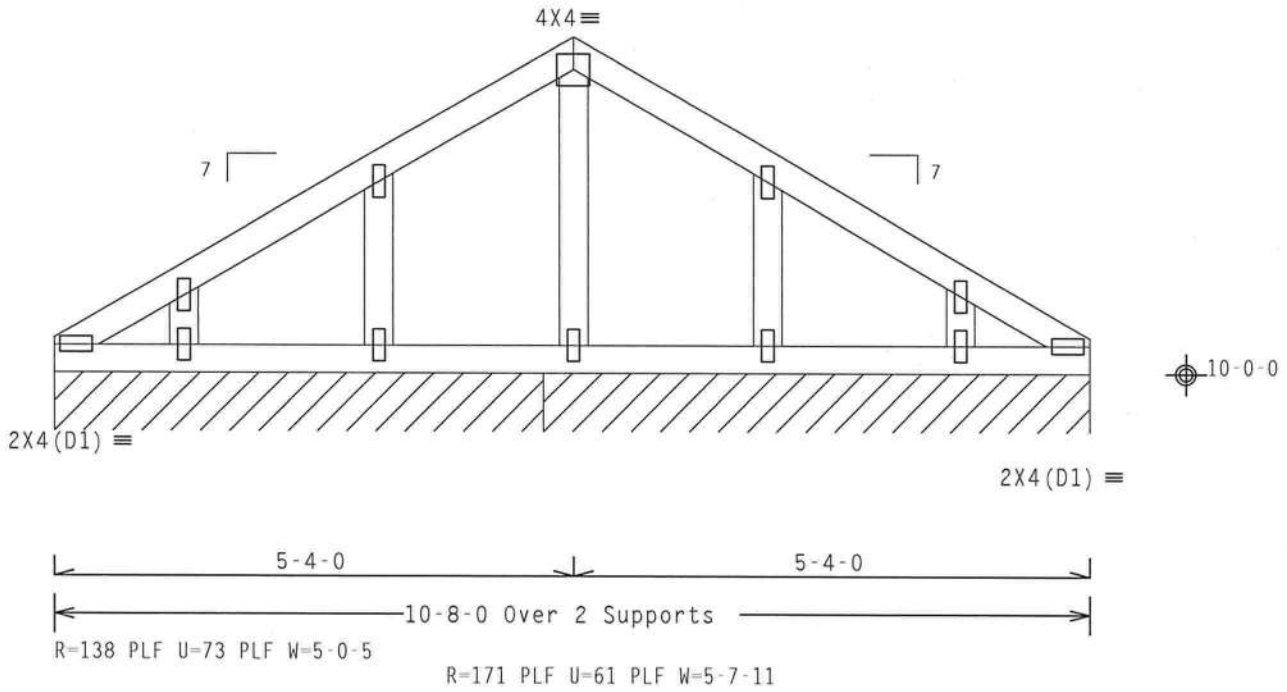
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

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

Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.36.00 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
31 '08

TC LL	20.0 PSF	REF	R8228- 64239
TC DL	10.0 PSF	DATE	07/31/08
BC DL	10.0 PSF	DRW	HCUSR8228 08213005
BC LL	0.0 PSF	HC-ENG	JB/DF
TOT.LD.	40.0 PSF	SEQN-	37617
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TJ08228Z02