

DATE 01/30/2008

Columbia County Building Permit
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026690

APPLICANT DAVID SIMQUE PHONE 755-7787
ADDRESS P.O. BOX 2962 LAKE CITY FL 32056
OWNER JARED CADY PHONE 867-0268
ADDRESS 564 SW HAMLET CIRCLE LAKE CITY FL 32024
CONTRACTOR DAVID SIMQUE PHONE 755-7787
LOCATION OF PROPERTY 47S, TL INTO SOUTHWOOD EST., TL ON HAMLET CIRCLE, 2ND HOUSE
ON LEFT
TYPE DEVELOPMENT ADD. TO SFD ESTIMATED COST OF CONSTRUCTION 75000.00
HEATED FLOOR AREA 1973.00 TOTAL AREA 1990.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB
LAND USE & ZONING A-3 MAX. HEIGHT 17
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 36-4S-16-03372-000 SUBDIVISION SOUTHWOOD ESTATES
LOT 10 BLOCK PHASE UNIT TOTAL ACRES

CBC056158
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 07-1014 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE
SEC. 2.3.1 NON-CONFORMING LEGAL LOT OF RECORD

Check # or Cash 3400

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 \$ 375.00 CERTIFICATION FEE \$ 9.95 SURCHARGE FEE \$ 9.95
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 469.90
INSPECTORS OFFICE Clerk's Office

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

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

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 PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Columbia County Building Permit Application

CK#3400

For Office Use Only Application # 0512-24 Date Received 12-7-07 By LH Permit # 26690
 Application Approved by - Zoning Official BLK Date 12.12.07 Plans Examiner OKJTH Date 12-17-07
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Section 2.3.1 Non-conforming Legal Lot of Record
DOC DEH

Applicants Name David Simeur Phone 867-0294
755-7787
 Address P.O. Box 2862 Lake City, FL 32056
 Owners Name Jared Cady Phone 386-867-0268
 911 Address 564 SW Hamlet Circle, Lake City, FL 32024
 Contractors Name David Simeur Phone _____
 Address SAME
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address Will Myers Box 1513 Lake City 32056
 Mortgage Lenders Name & Address N/A

Property ID Number 36-45-16-03372-0001X Estimated Cost of Construction 75,000.00
 Subdivision Name Southwood Estates Lot 10 Block F Unit 2 Phase _____
 Driving Directions South on Hwy 47 to left into Southwood Estates.
2nd road on left is Hamlet Circle. 2nd house on left.

Type of Construction Remodel & Addition to SFD Number of Existing Dwellings on Property 1
 Total Acreage 1.97 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 85 Side 150 Side 66 Rear 177
 Total Building Height 17' Number of Stories 1 Heated Floor Area 1973 Roof Pitch 8/12
 TOTAL 1990

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

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

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

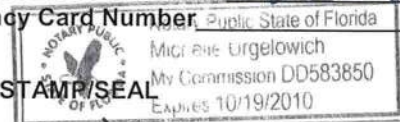
[Signature]
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 29th day of Nov 2007.
 Personally known / or Produced Identification _____

[Signature]
 Contractor Signature
 Contractors License Number CBC05658
 Competency Card Number _____

NOTARY STAMP/SEAL



[Signature]
 Notary Signature

Spoke to David 12/18/07
(6)

Columbia County Building Permit Application

Application # _____

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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.

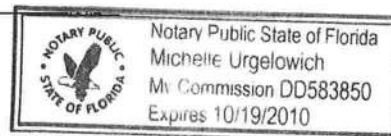
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

[Signature]
Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 29 day of Nov. 2007
Personally known ☒ or Produced Identification _____

[Signature]
State of Florida Notary Signature (For the Owner)

SEAL:



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.

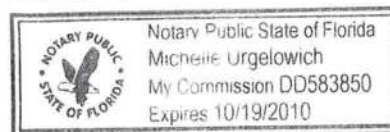
[Signature]
Contractor's Signature (Permitee)

Contractor's License Number CB056158
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 29 day of Nov. 2007.
Personally known ☒ or Produced Identification _____

[Signature]
State of Florida Notary Signature (For the Contractor)

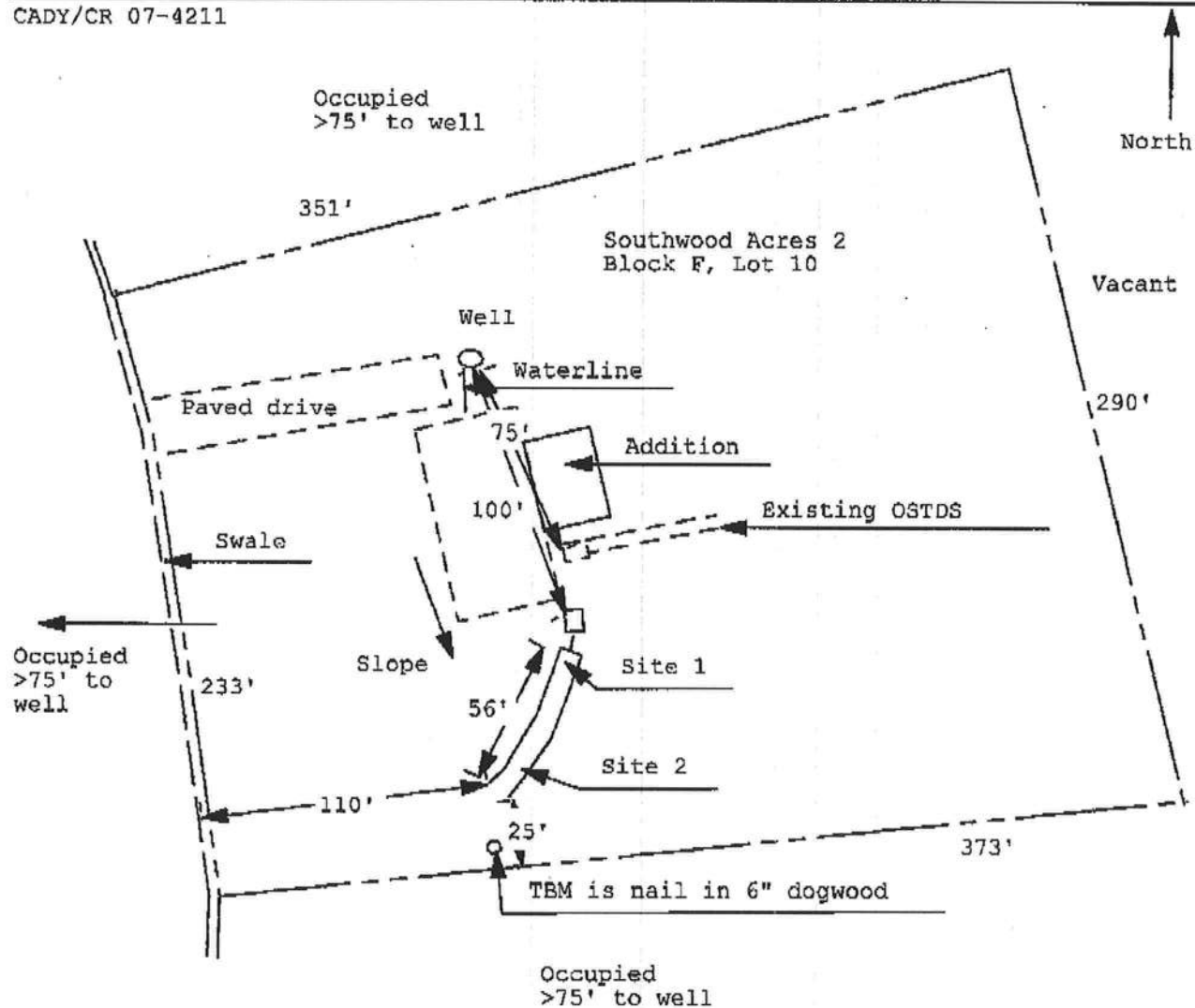
SEAL:



**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 07-1014

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CADY/CR 07-4211



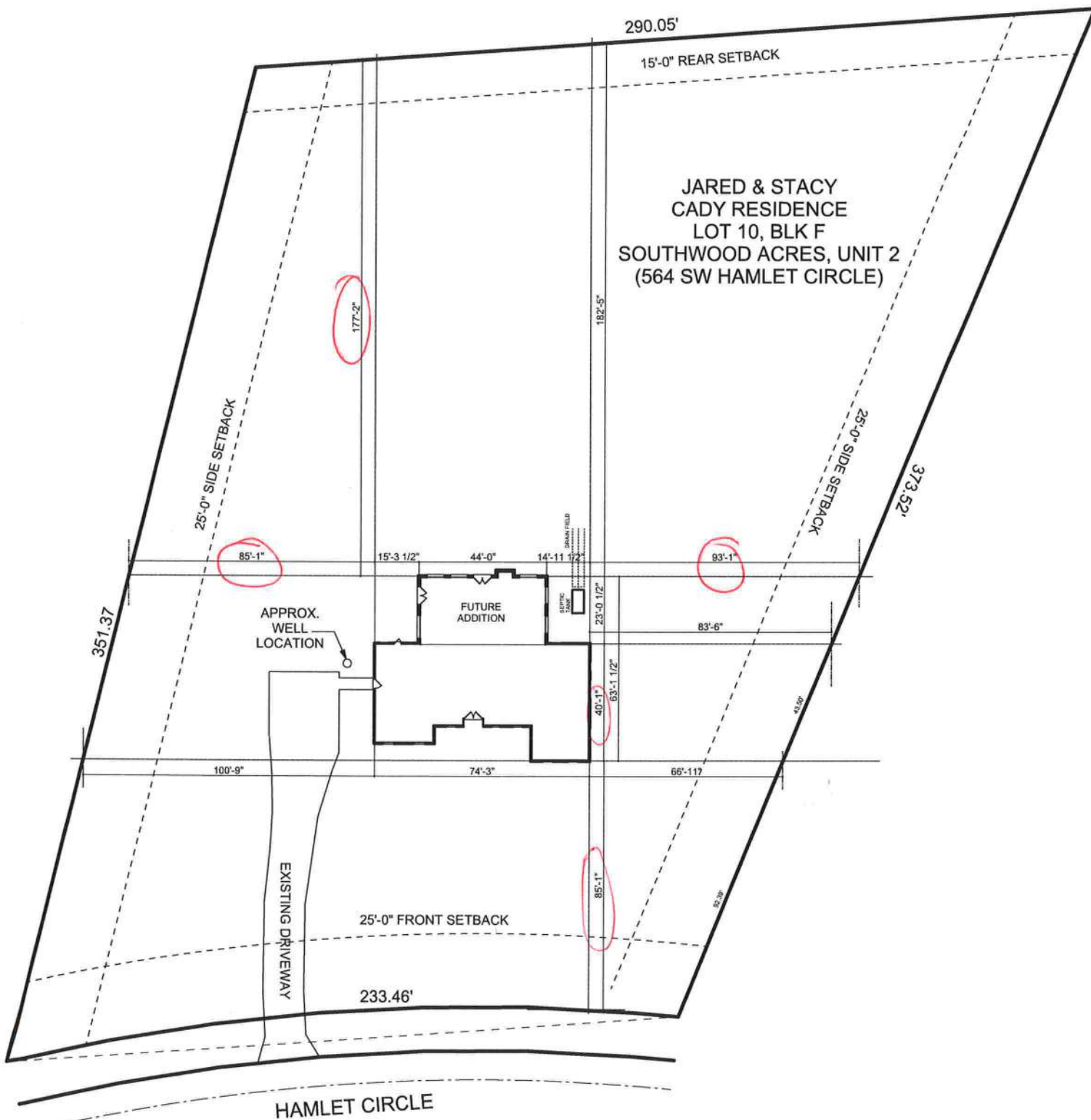
1 inch = 60 feet

Site Plan Submitted By Paul L. L... Date 12/28/07
 Plan Approved ☒ Not Approved ☐ Date 1-2-08

By Mr. J. L. Columbia CPHU

Notes:

JARED Cady



SCALE: 1" = 50'-0"

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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

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

Tax Parcel ID Number 36-45-16-03372-000 HX

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

564 SW Hamlet Circle, Lake City, FL

Lot 10 Block F Southwood Acres S/D Unit 2.

2. General description of improvement: Remodel

3. Owner Name & Address Jared Cady, PO Box 2218, Lake City, FL 32056

Interest in Property owner

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

5. Contractor Name Summa Construction Phone Number 755-2787

Address PO Box 2962 Lake City FL 32056

6. Surety Holders Name _____ Phone Number _____

Address _____

Amount of Bond _____

Inst 200712026953 Date: 12/7/2007 Time: 1:57 PM

7. Lender Name B DC, P. DeWitt Cason, Columbia County Page 1 of 1

Address _____

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

Name Jared Cady Phone Number 386-961-8996

Address PO Box 2218, Lake City, FL 32056

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

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

(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording,

(Unless a different date is specified) _____

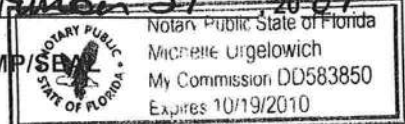
NOTICE AS PER CHAPTER 713, Florida Statutes:

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

Jared Cady
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of November 29, 2007

NOTARY STAMP/



Michelle Urgelovich
Signature of Notary

THIS INSTRUMENT WAS PREPARED BY:

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

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328
99-88

Grantee #1 S.S. No. _____

Grantee #2 S.S. No. _____

Property Appraiser's
Parcel Identification No.
36-45-16-03372-000

Recording Fee \$ 10.50
Documentary Stamp \$ 854.00

FILED AND RECORDED IN PUBLIC
RECORDS OF COLUMBIA COUNTY, FL

1999 APR 21 PM 4:45

WARRANTY DEED

THIS INDENTURE, made this 15th day of April, 1999, BETWEEN MARK A. CADY and SCOTT D. STEWART, each an undivided 1/2 interest, who do not reside on the property described below, whose post office address is Route 9, Box 1042, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and JARED M. CADY and his wife, STACY M. CADY, whose post office address is Post Office Box 2218, Lake City, Florida 32056, of the County of Columbia, State of Florida, grantee*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 10, Block F, SOUTHWOOD ACRES, UNIT NO. 2, a subdivision according to the plat thereof recorded in Plat Book 3, Page 82 of the public records of Columbia County, Florida.

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

N.E. Neither the Grantor nor any member of his family live or reside on the property described herein or any land adjacent thereto or claim any part thereof or any land adjacent thereto as their homestead.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

\$ 854.00
J. J. Hendry Stamp
Notary Public
F. J. Gason
Notary of Court
By MC D.C.

**Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

DeEtte F. Brown
(First Witness)
DeEtte F. Brown
Printed Name

Lisa C. Ogburn
(Second Witness)
Lisa C. Ogburn
Printed Name

Mark A. Cady (SEAL)
MARK A. CADY

Scott D. Stewart (SEAL)
SCOTT D. STEWART

STATE OF FLORIDA
COUNTY OF COLUMBIA

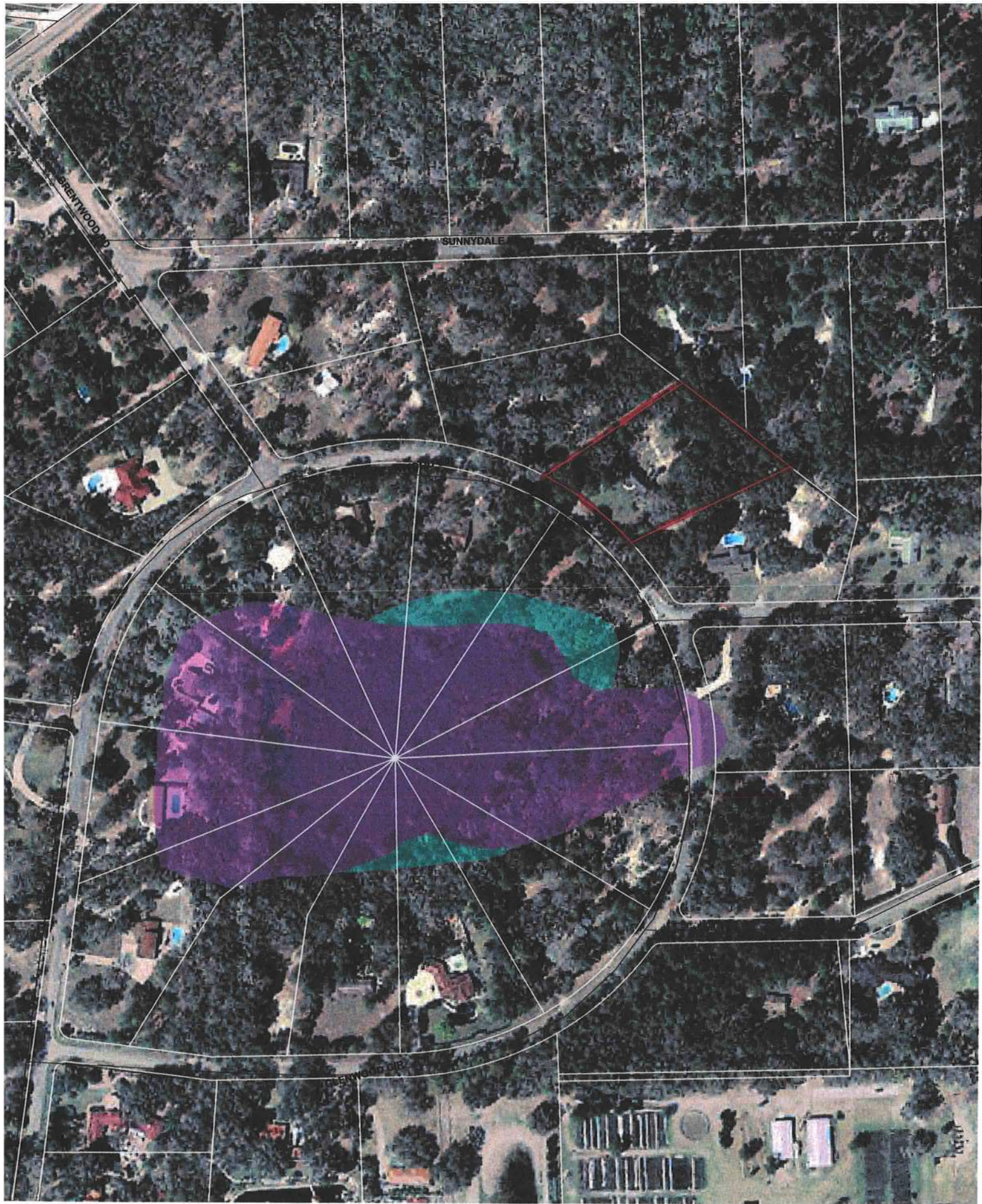
The foregoing instrument was acknowledged before me this 15th day of April, 1999, by MARK A. CADY and SCOTT D. STEWART, who are personally known to me and who did not take an oath.

My Commission Expires:

DeEtte F. Brown
Notary Public
Printed, typed, or stamped name:



EX 0878 PG2503
OFFICIAL RECORDS



0712-24

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Jared & Stacy Cady	Builder:	Simone Owner
Address:	Lot: , Sub: Southwood Acres, Plat:	Permitting Office:	Columbia
City, State:	Lake City, FL 32024-	Permit Number:	26690
Owner:	Cady Residence	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	Addition	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 53.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1973 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 53.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 376.0 ft²			HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 376.0 ft²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=5.0, 135.0(p) ft	a. Electric Resistance	Cap: 80.0 gallons
b. Raised Wood, Adjacent	R=5.0, 950.0ft²		EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=19.0, 860.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 1386.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 2100.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 40.0 ft		
b. N/A			

Glass/Floor Area: 0.19

Total as-built points: 24007
Total base points: 24269

PASS

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

PREPARED BY: [Signature]DATE: 12-4-07

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____



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

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

ADDRESS: Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 23806.3				Summer As-Built Points: 35404.9						
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
23806.3	0.3250		7737.1	<small>(sys 1: Central Unit 53000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> <small>35405 1.00 (1.09 x 1.000 x 0.91) 0.260 0.950 8674.2</small> 35404.9 1.00 0.992 0.260 0.950 8674.2						

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

ADDRESS: Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X		SOF = Points		
.18	1973.0	18.59	6602.0	1.Double, Clear	W	1.5	12.0	72.0	38.52	0.99	2751.0
				2.Double, Clear	W	1.5	12.0	80.0	38.52	0.99	3056.0
				3.Double, Clear	W	1.5	12.0	100.0	38.52	0.99	3820.0
				4.Double, Clear	N	1.5	12.0	24.0	19.20	0.99	456.0
				5.Double, Clear	S	1.5	12.0	16.0	35.87	0.98	564.0
				6.Double, Clear	S	1.5	12.0	40.0	35.87	0.98	1411.0
				7.Double, Clear	S	1.5	12.0	12.0	35.87	0.98	423.0
				8.Double, Clear	E	1.5	8.0	32.0	42.06	0.96	1288.0
				As-Built Total:				376.0		13769.0	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM		= Points		
Adjacent	1386.0	0.70	970.2	1. Frame, Wood, Exterior	19.0		860.0	0.90	774.0		
Exterior	860.0	1.70	1462.0	2. Frame, Wood, Adjacent	13.0		1386.0	0.60	831.6		
Base Total:				As-Built Total:				2246.0		1605.6	
DOOR TYPES Area X BSPM = Points				Type			Area X SPM		= Points		
Adjacent	0.0	0.00	0.0								
Exterior	0.0	0.00	0.0								
Base Total:				As-Built Total:				0.0		0.0	
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM		= Points		
Under Attic	1973.0	1.73	3413.3	1. Under Attic	30.0		2100.0	1.73 X 1.00	3633.0		
Base Total:				As-Built Total:				2100.0		3633.0	
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM		= Points		
Slab	135.0(p)	-37.0	-4995.0	1. Slab-On-Grade Edge Insulation	5.0		135.0(p)	-36.20	-4887.0		
Raised	950.0	-3.99	-3790.5	2. Raised Wood, Adjacent	5.0		950.0	1.20	1140.0		
Base Total:				As-Built Total:				1085.0		-3747.0	
INFILTRATION Area X BSPM = Points								Area X SPM		= Points	
	1973.0	10.21	20144.3					1973.0	10.21	20144.3	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC Overhang Ornt Len Hgt Area X WPM X WOF = Points							
.18	1973.0	20.17	7163.0	1.Double, Clear	W	1.5	12.0	72.0	20.73	1.00	1496.0
				2.Double, Clear	W	1.5	12.0	80.0	20.73	1.00	1662.0
				3.Double, Clear	W	1.5	12.0	100.0	20.73	1.00	2077.0
				4.Double, Clear	N	1.5	12.0	24.0	24.58	1.00	589.0
				5.Double, Clear	S	1.5	12.0	16.0	13.30	1.00	212.0
				6.Double, Clear	S	1.5	12.0	40.0	13.30	1.00	530.0
				7.Double, Clear	S	1.5	12.0	12.0	13.30	1.00	159.0
				8.Double, Clear	E	1.5	8.0	32.0	18.79	1.02	613.0
				As-Built Total: 376.0 7338.0							
WALL TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Adjacent	1386.0	3.60	4989.6	1. Frame, Wood, Exterior			19.0	860.0	2.20		1892.0
Exterior	860.0	3.70	3182.0	2. Frame, Wood, Adjacent			13.0	1386.0	3.30		4573.8
Base Total: 2246.0 8171.6				As-Built Total: 2246.0 6465.8							
DOOR TYPES Area X BWPM = Points				Type Area X WPM = Points							
Adjacent	0.0	0.00	0.0								
Exterior	0.0	0.00	0.0								
Base Total: 0.0 0.0				As-Built Total: 0.0 0.0							
CEILING TYPES Area X BWPM = Points				Type R-Value Area X WPM X WCM = Points							
Under Attic	1973.0	2.05	4044.6	1. Under Attic			30.0	2100.0	2.05 X 1.00		4305.0
Base Total: 1973.0 4044.6				As-Built Total: 2100.0 4305.0							
FLOOR TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Slab	135.0(p)	8.9	1201.5	1. Slab-On-Grade Edge Insulation			5.0	135.0(p)	7.60		1026.0
Raised	950.0	0.96	912.0	2. Raised Wood, Adjacent			5.0	950.0	6.11		5808.6
Base Total: 2113.5				As-Built Total: 1085.0 6834.6							
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1973.0 -0.59 -1164.1				1973.0 -0.59 -1164.1							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT						
Winter Base Points: 20328.7				Winter As-Built Points: 23779.3						
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	
20328.7	0.5540	11262.1		(sys 1: Electric Heat Pump 53000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0 23779.3 1.000 (1.069 x 1.000 x 0.93) 0.443 0.950 9946.0 23779.3 1.00 0.994 0.443 0.950 9946.0						

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank X Ratio	Multiplier X Credit Multiplier	= Total
2		2635.00	5270.0	80.0	0.90	2	1.00	2693.56	5387.1
				As-Built Total:					5387.1

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
7737		11262	5270 24269	8674		9946	5387 24007

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.2

The higher the score, the more efficient the home.

Cady Residence, Lot: , Sub: Southwood Acres, Plat: , Lake City, FL, 32024-

1. New construction or existing	Addition	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 53.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 13.00
4. Number of Bedrooms	2	___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft ²)	1973 ft ²	___		___
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) 376.0 ft ²	___	a. Electric Heat Pump	Cap: 53.0 kBtu/hr
b. SHGC:		___		HSPF: 7.70
(or Clear or Tint DEFAULT)	7b. (Clear) 376.0 ft ²	___	b. N/A	___
8. Floor types		___	c. N/A	___
a. Slab-On-Grade Edge Insulation	R=5.0, 135.0(p) ft	___		___
b. Raised Wood, Adjacent	R=5.0, 950.0ft ²	___	14. Hot water systems	
c. N/A	___	___	a. Electric Resistance	Cap: 80.0 gallons
9. Wall types		___		EF: 0.90
a. Frame, Wood, Exterior	R=19.0, 860.0 ft ²	___	b. N/A	___
b. Frame, Wood, Adjacent	R=13.0, 1386.0 ft ²	___	c. Conservation credits	___
c. N/A	___	___	(HR-Heat recovery, Solar	___
d. N/A	___	___	DHP-Dedicated heat pump)	___
e. N/A	___	___	15. HVAC credits	PT, ___
10. Ceiling types		___	(CF-Ceiling fan, CV-Cross ventilation,	___
a. Under Attic	R=30.0, 2100.0 ft ²	___	HF-Whole house fan,	___
b. N/A	___	___	PT-Programmable Thermostat,	___
c. N/A	___	___	MZ-C-Multizone cooling,	___
11. Ducts(Leak Free)		___	MZ-H-Multizone heating)	___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 40.0 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.
EnergyGauge® (Version: FLRCPB v4.5.2)

Energy Code Compliance

Duct System Performance Report

Project Name:	Jared & Stacy Cady	Builder:	Owner
Address:		Permitting Office:	
City, State:	Lake City, FL 32024-	Permit Number:	
Owner:	Cady Residence	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25 _(tot)	_____ cfm25 _(out)
2	System2	_____ cfm25 _(tot)	_____ cfm25 _(out)
3	System3	_____ cfm25 _(tot)	_____ cfm25 _(out)
4	System4	_____ cfm25 _(tot)	_____ cfm25 _(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) <input type="checkbox"/> Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) <input type="checkbox"/> Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

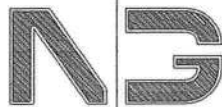
DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____

DATE: _____



**NICHOLAS
PAUL
GEISLER
ARCHITECT**
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

17 DECEMBER 2007

JOE HALTIWANGER, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: ALTERATIONS & ADDITIONS TO CADY RESIDENCE
PERMIT Nr.: 0712-24

DEAR SIR:

PLEASE BE ADVISED REGARDING THE ABOVE REFERENCED PROJECT, THAT AS THE "ARCHITECT OF RECORD", I WILL BE INSPECTING THE STRUCTURAL PORTION OF THE WORK FOR COMPLIANCE WITH THE "FLORIDA BUILDING CODE, 2004 EDITION", AND THE CONTRACT DOCUMENTS. ALL OTHER INSPECTIONS SHALL BE CARRIED OUT BY THE COLUMBIA COUNTY BUILDING DEPARTMENT.

INSPECTIONS PERFORMED BY THE ARCHITECT SHALL HAVE A WRITTEN SUMMARY PREPARED AND COPIED TO THE COLUMBIA COUNTY BUILDING DEPARTMENT FOR THEIR USE AND REVIEW.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

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
Page 1 of 1 Document ID:ITCW8228Z0130131008

Truss Fabricator: Anderson Truss Company
Job Identification: 7-332--Fill in later CADY -- , **
Truss Count: 3
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.36.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
the seal date per section 61G15-31.003(5a) of the FAC
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: BRCLBSUB-A11030EE-GBLLETIN-

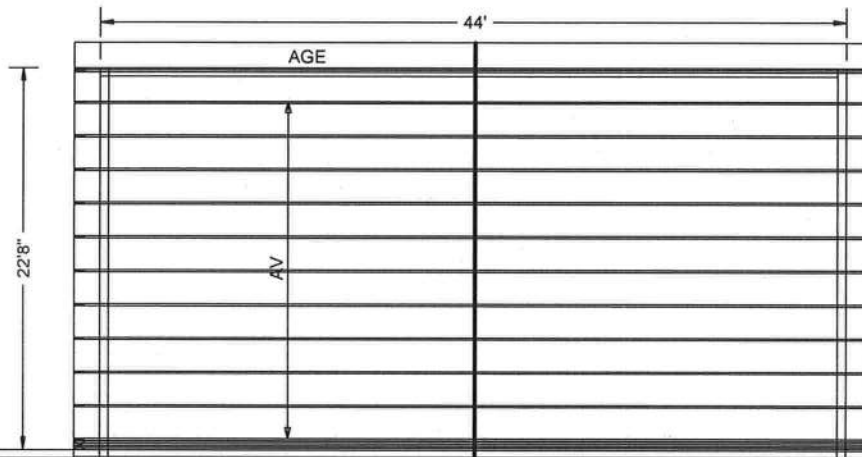
#	Ref	Description	Drawing#	Date
1	16598--AV		07334001	11/30/07
2	16599--AGE		07334002	11/30/07
3	16600--AG		07334003	11/30/07

Seal Date: 11/30/2007

-Truss Design Engineer-
Doug Fleming

Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844





#7-332 Jared Cady 11/30/07

Roof Plane Sheathing Area = 1222 sq. ft
 Gable Sheathing Area = 126 sq. ft
 Total Sheathing Area = 1348 sq. ft
 Fascia Material = 99 linear ft
 Ridge Cap Material = 25 linear ft

JOB DESCRIPTION: Fill in later
 J. CADY

JOB NO:
 7-332

PAGE NO:
 1 OF 1

110 mph wind, 17.24 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 Gcpl (+/-) -0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



DOUGLAS
LICENSE
No. 66648

5

THE UNIVERSITY OF CHICAGO



DUR.FAC.	1.25	
SPACING	24.0"	JRFF - 1TCW8228201

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

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

+ MEMBER TO BE Laterally Braced For Wind Loads Perpendicular To Truss. Bracing System To Be Designed And Furnished By Others.

2 COMPLETE TRUSSES REQUIRED



Nailing Schedule: (10d Box or Gun_ (0.128"x3",_min._)_nails)

Top Chord:	1 Row	@12.00"	o.c.
Bot Chord:	1 Row	@12.00"	o.c.
Web:	1 Row	@ 4"	o.c.

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

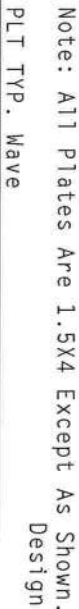
Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.36" due to live load and 0.69" due to dead load.

See DWGS A11030EE0207 & GBLETTIN0207 for more requirements.

Calculated vertical deflection is 0.61" due to live load and 1.19" due to dead load at X = 22'-0".

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



Design Crit: TPI-2002(STD)/FBC

$$\underline{Cq/RT=1.00(1.25)/10(0)} \quad 7$$

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

Scale = .125" / Ft.

WARNING: THESE RIGIDIZE EXTERIOR CASE IN FABRICATION, HANDLING, SHIPMENT, INSTALLING AND BROCKING REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WOOD TRUSS COMPANY, OF AMERICA, 6300 ENTERPRISE LANE, MOBILE, AL 36619 FOR SAFETY PRACTICES AND PRECAUTIONS FOR CONSTRUCTING THESE STRUCTURES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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


TYPE; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN, CONFORMING WITH ADOPTED STANDARDS AND CODES OF PRACTICE.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-7 CONNECTION FORTS: 20/40/100A (W. 4/11/55) GALV. STEEL, APPLY 40/60 (W. 4/11/55) GALV. STEEL, APPLY

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

1



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



TC LL	20.0 PSF	REF	R8228- 16599
TC DL	10.0 PSF	DATE	11/30/07
BC DL	10.0 PSF	DRW	HCUSR8228 07334002
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	25217
DUR.FAC.	1.25		
SPACING	SFF ABOVE	JRFF-	1TCWR8228Z01

Top chord 2x6 SP #2 :B2, B3 2x6 SP #1 Dense:
Bot chord 2x6 SP #2 :W2, W12 2x4 SP #2 Dense:
W7 2x6 SP #2:

SPECIAL LOADS

TC - From	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25	61 PLF at 9.74
TC - From	61 PLF at 9.74 to 61 PLF at 22.00	
TC - From	61 PLF at 22.00 to 61 PLF at 34.26	
TC - From	61 PLF at 34.26 to 61 PLF at 45.50	
BC - From	4 PLF at 1.50 to 4 PLF at 0.00	
BC - From	21 PLF at 0.00 to 21 PLF at 9.73	
BC - From	21 PLF at 9.73 to 21 PLF at 22.00	
BC - From	21 PLF at 22.00 to 21 PLF at 34.27	
BC - From	21 PLF at 34.27 to 21 PLF at 44.00	
BC - From	4 PLF at 44.00 to 4 PLF at 45.50	
TC - 4000 LB Conc. Load at 22.00		
BC - 4000 LB Conc. Load at 22.00		

Calculated vertical deflection is 0.74" due to live load and 1.11" due to dead load at X = 22-0-0.

Concentrated load(s) must be evenly distributed over all plies of this girder. Provide additional clusters of nails in the quantities shown by the number(s) in circle(s) at that location thru the back side of the truss as the third (and fourth) member are applied (back nailing). Nail type is to match nailing schedule shown on this drawing.

4 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun (0.128"x3", min.)_nails)
Top Chord: 1 Row @10.75" o.c.
Bot Chord: 1 Row @12.00" o.c.
W7: 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting. In addition apply (1) 1/2" bolt at each joint location.

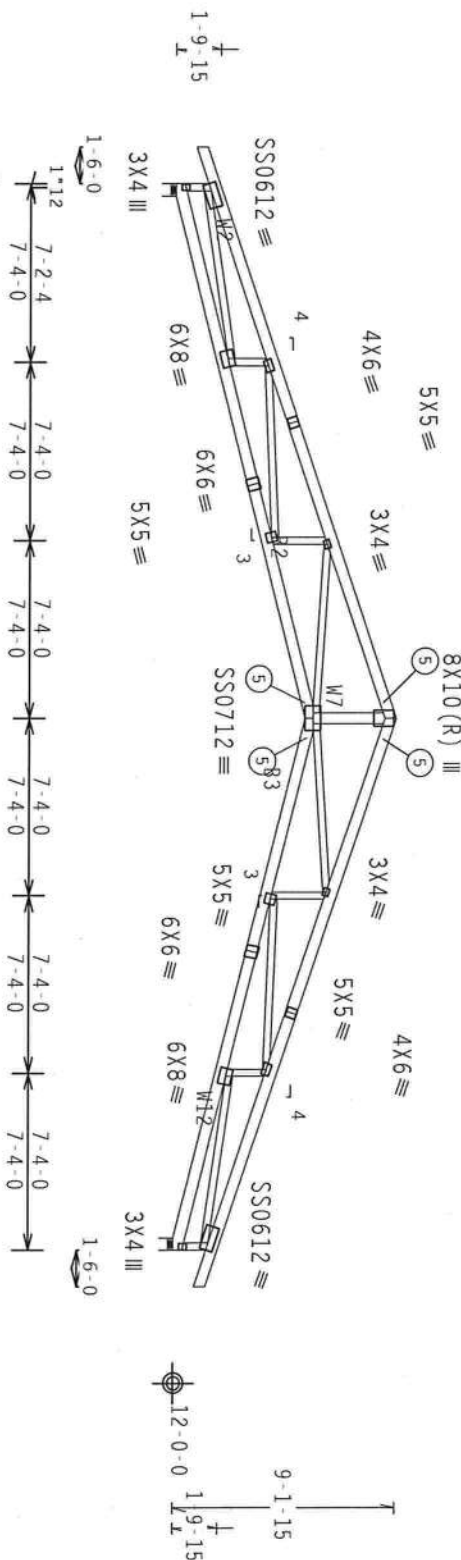
110 mph wind, 17.24 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, W=1.00 GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.44" due to live load and 0.66" due to dead load.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. 18 Gauge HS.Wave

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

Design Crit: TPI-2002(STD)/FBC

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

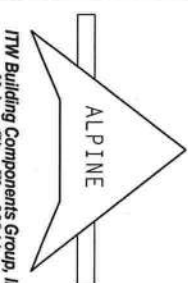
R=5895 U=719 W=6"

R=5895 U=719 W=6"

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



TC LL	20.0 PSF	REF R8228-16600
TC DL	10.0 PSF	DATE 11/30/07
BC DL	10.0 PSF	DRW HCSR8228 07334003
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEGN- 25183



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

DUR.FAC.	1.25	SPACING SEE ABOVE
JREF - 1TCWR22RZ01		

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

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

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

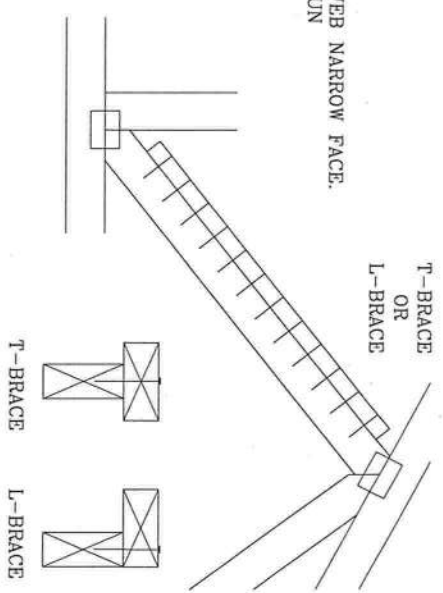
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

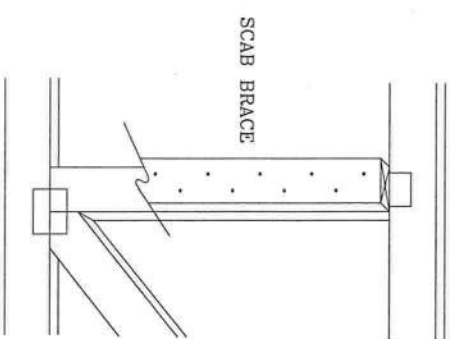
T-BRACING OR L-BRACING:

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



SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579,640



TRUSS BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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

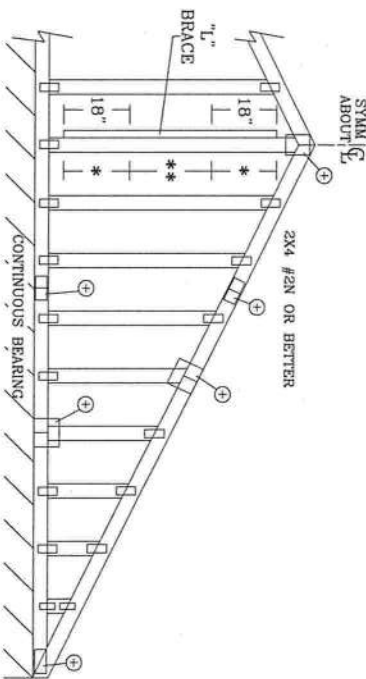
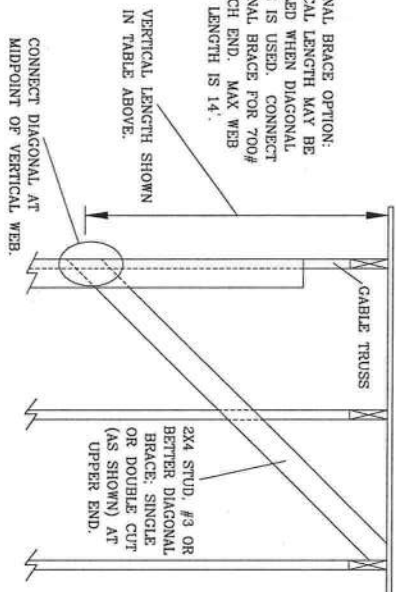
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P&A) AND TPI. TPI, BCG CONNECTOR PLATES ARE MADE OF 2018/1664 (V/H/SS) ASH 6653 GRADE 40/60 (V/K/H/SS). TPI, BCG CONNECTOR PLATES TO BE ATTACHED TO THE WIDE FACE OF THE TRUSS. UNLESS OTHERWISE LOCATED ON THIS PER DESIGN POSITION PER DRAWING. 10d BOX OR GUN (0.128" x 3" MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.



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

MAX GABLE VERTICAL LENGTH

GABLE VERTICAL SPECIES	BRACE GRADE	NO BRACES	2X4 "L" BRACE *				(1) 2X4 "L" BRACE *				(1) 2X6 "L" BRACE *				(2) 2X6 "L" BRACE **			
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	3' 7"	4' 8"	4' 8"	6' 1"	6' 1"	8' 3"	8' 3"	9' 6"	9' 6"	12' 11"	12' 11"	12' 11"	12' 11"	12' 11"	12' 11"	12' 11"
	SP	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 4"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#3	3' 8"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 1"	6' 8"	6' 8"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	4' 1"	6' 8"	6' 8"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#3	4' 1"	6' 8"	6' 8"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 6"	7' 3"	7' 9"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 700#
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA. 22314 AND WICA CADD TRUSS COUNCIL OF AMERICA, 6400 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TYPED SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN A CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC 360, AISC 360M, AISC 360S, AISC 360T, AISC 360U, AISC 360V, AISC 360W, AISC 360X, AISC 360Y, AISC 360Z, AISC 360AA, AISC 360AB, AISC 360AC, AISC 360AD, AISC 360AE, AISC 360AF, AISC 360AG, AISC 360AH, AISC 360AI, AISC 360AJ, AISC 360AK, AISC 360AL, AISC 360AM, AISC 360AN, AISC 360AO, AISC 360AP, AISC 360AQ, AISC 360AR, AISC 360AS, AISC 360AT, AISC 360AU, AISC 360AV, AISC 360AW, AISC 360AX, AISC 360AY, AISC 360AZ, AISC 360BA, AISC 360BB, AISC 360BC, AISC 360BD, AISC 360BE, AISC 360BF, AISC 360BG, AISC 360BH, AISC 360BI, AISC 360BJ, AISC 360BK, AISC 360BL, AISC 360BM, AISC 360BN, AISC 360BO, AISC 360BP, AISC 360BQ, AISC 360BR, AISC 360BS, AISC 360BT, AISC 360BU, AISC 360BV, AISC 360BW, AISC 360BX, AISC 360BY, AISC 360BZ, AISC 360CA, AISC 360CB, AISC 360CC, AISC 360CD, AISC 360CE, AISC 360CF, AISC 360CG, AISC 360CH, AISC 360CI, AISC 360CJ, AISC 360CK, AISC 360CL, AISC 360CM, AISC 360CN, AISC 360CO, AISC 360CP, AISC 360CQ, AISC 360CR, AISC 360CS, AISC 360CT, AISC 360CU, AISC 360CV, AISC 360CW, AISC 360CX, AISC 360CY, AISC 360CZ, AISC 360DA, AISC 360DB, AISC 360DC, AISC 360DD, AISC 360DE, AISC 360DF, AISC 360DG, AISC 360DH, AISC 360DI, AISC 360DJ, AISC 360DK, AISC 360DL, AISC 360DM, AISC 360DN, AISC 360DO, AISC 360DP, AISC 360DQ, AISC 360DR, AISC 360DS, AISC 360DT, AISC 360DU, AISC 360DV, AISC 360DW, AISC 360DX, AISC 360DY, AISC 360DZ, AISC 360EA, AISC 360EB, AISC 360EC, AISC 360ED, AISC 360EE, AISC 360EF, AISC 360EG, AISC 360EH, AISC 360EI, AISC 360EJ, AISC 360EK, AISC 360EL, AISC 360EM, AISC 360EN, AISC 360EO, AISC 360EP, AISC 360EQ, AISC 360ER, AISC 360ES, AISC 360ET, AISC 360EU, AISC 360EV, AISC 360EW, AISC 360EX, AISC 360EY, AISC 360EZ, AISC 360FA, AISC 360FB, AISC 360FC, AISC 360FD, AISC 360FE, AISC 360FF, AISC 360FG, AISC 360FH, AISC 360FI, AISC 360FJ, AISC 360FK, AISC 360FL, AISC 360FM, AISC 360FN, AISC 360FO, AISC 360FP, AISC 360FQ, AISC 360FR, AISC 360FS, AISC 360FT, AISC 360FU, AISC 360FV, AISC 360FW, AISC 360FX, AISC 360FY, AISC 360FZ, AISC 360GA, AISC 360GB, AISC 360GC, AISC 360GD, AISC 360GE, AISC 360GF, AISC 360GG, AISC 360GH, AISC 360GI, AISC 360GJ, AISC 360GK, AISC 360GL, AISC 360GM, AISC 360GN, AISC 360GO, AISC 360GP, AISC 360GQ, AISC 360GR, AISC 360GS, AISC 360GT, AISC 360GU, AISC 360GV, AISC 360GW, AISC 360GX, AISC 360GY, AISC 360GZ, AISC 360HA, AISC 360HB, AISC 360HC, AISC 360HD, AISC 360HE, AISC 360HF, AISC 360HG, AISC 360HH, AISC 360HI, AISC 360HJ, AISC 360HK, AISC 360HL, AISC 360HM, AISC 360HN, AISC 360HO, AISC 360HP, AISC 360HQ, AISC 360HR, AISC 360HS, AISC 360HT, AISC 360HU, AISC 360HV, AISC 360HW, AISC 360HX, AISC 360HY, AISC 360HZ, AISC 360IA, AISC 360IB, AISC 360IC, AISC 360ID, AISC 360IE, AISC 360IF, AISC 360IG, AISC 360IH, AISC 360II, AISC 360IJ, AISC 360IK, AISC 360IL, AISC 360IM, AISC 360IN, AISC 360IO, AISC 360IP, AISC 360IQ, AISC 360IR, AISC 360IS, AISC 360IT, AISC 360IU, AISC 360IV, AISC 360IW, AISC 360IX, AISC 360IY, AISC 360IZ, AISC 360JA, AISC 360JB, AISC 360JC, AISC 360JD, AISC 360JE, AISC 360JF, AISC 360JG, AISC 360JH, AISC 360JI, AISC 360JJ, AISC 360JK, AISC 360JL, AISC 360JM, AISC 360JN, AISC 360JO, AISC 360JP, AISC 360JQ, AISC 360JR, AISC 360JS, AISC 360JT, AISC 360JU, AISC 360JV, AISC 360JW, AISC 360JX, AISC 360JY, AISC 360JZ, AISC 360KA, AISC 360KB, AISC 360KC, AISC 360KD, AISC 360KE, AISC 360KF, AISC 360KG, AISC 360KH, AISC 360KI, AISC 360KJ, AISC 360KK, AISC 360KL, AISC 360KM, AISC 360KN, AISC 360KO, AISC 360KP, AISC 360KQ, AISC 360KR, AISC 360KS, AISC 360KT, AISC 360KU, AISC 360KV, AISC 360KW, AISC 360KX, AISC 360KY, AISC 360KZ, AISC 360LA, AISC 360LB, AISC 360LC, AISC 360LD, AISC 360LE, AISC 360LF, AISC 360LG, AISC 360LH, AISC 360LI, AISC 360LJ, AISC 360LK, AISC 360LL, AISC 360LM, AISC 360LN, AISC 360LO, AISC 360LP, AISC 360LQ, AISC 360LR, AISC 360LS, AISC 360LT, AISC 360LU, AISC 360LV, AISC 360LW, AISC 360LX, AISC 360LY, AISC 360LZ, AISC 360MA, AISC 360MB, AISC 360MC, AISC 360MD, AISC 360ME, AISC 360MF, AISC 360MG, AISC 360MH, AISC 360MI, AISC 360MJ, AISC 360MK, AISC 360ML, AISC 360MN, AISC 360MO, AISC 360MP, AISC 360MQ, AISC 360MR, AISC 360MS, AISC 360MT, AISC 360MU, AISC 360MV, AISC 360MW, AISC 360MX, AISC 360MY, AISC 360MZ, AISC 360NA, AISC 360NB, AISC 360NC, AISC 360ND, AISC 360NE, AISC 360NF, AISC 360NG, AISC 360NH, AISC 360NI, AISC 360NJ, AISC 360NK, AISC 360NL, AISC 360NM, AISC 360NN, AISC 360NO, AISC 360NP, AISC 360NQ, AISC 360NR, AISC 360NS, AISC 360NT, AISC 360NU, AISC 360NV, AISC 360NW, AISC 360NX, AISC 360NY, AISC 360NZ, AISC 360OA, AISC 360OB, AISC 360OC, AISC 360OD, AISC 360OE, AISC 360OF, AISC 360OG, AISC 360OH, AISC 360OI, AISC 360OJ, AISC 360OK, AISC 360OL, AISC 360OM, AISC 360ON, AISC 360OO, AISC 360OP, AISC 360OQ, AISC 360OR, AISC 360OS, AISC 360OT, AISC 360OU, AISC 360OV, AISC 360OW, AISC 360OX, AISC 360OY, AISC 360OZ, AISC 360PA, AISC 360PB, AISC 360PC, AISC 360PD, AISC 360PE, AISC 360PF, AISC 360PG, AISC 360PH, AISC 360PI, AISC 360PJ, AISC 360PK, AISC 360PL, AISC 360PM, AISC 360PN, AISC 360PO, AISC 360PP, AISC 360PQ, AISC 360PR, AISC 360PS, AISC 360PT, AISC 360PU, AISC 360PV, AISC 360PW, AISC 360PX, AISC 360PY, AISC 360PZ, AISC 360QA, AISC 360QB, AISC 360QC, AISC 360QD, AISC 360QE, AISC 360QF, AISC 360QG, AISC 360QH, AISC 360QI, AISC 360QJ, AISC 360QK, AISC 360QL, AISC 360QM, AISC 360QN, AISC 360QO, AISC 360QP, AISC 360QQ, AISC 360QR, AISC 360QS, AISC 360QT, AISC 360QU, AISC 360QV, AISC 360QW, AISC 360QX, AISC 360QY, AISC 360QZ, AISC 360RA, AISC 360RB, AISC 360RC, AISC 360RD, AISC 360RE, AISC 360RF, AISC 360RG, AISC 360RH, AISC 360RI, AISC 360RJ, AISC 360RK, AISC 360RL, AISC 360RM, AISC 360RN, AISC 360RO, AISC 360RP, AISC 360RQ, AISC 360RR, AISC 360RS, AISC 360RT, AISC 360RU, AISC 360RV, AISC 360RW, AISC 360RX, AISC 360RY, AISC 360RZ, AISC 360SA, AISC 360SB, AISC 360SC, AISC 360SD, AISC 360SE, AISC 360SF, AISC 360SG, AISC 360SH, AISC 360SI, AISC 360SJ, AISC 360SK, AISC 360SL, AISC 360SM, AISC 360SN, AISC 360SO, AISC 360SP, AISC 360SQ, AISC 360SR, AISC 360SS, AISC 360ST, AISC 360SU, AISC 360SV, AISC 360SW, AISC 360SX, AISC 360SY, AISC 360SZ, AISC 360TA, AISC 360TB, AISC 360TC, AISC 360TD, AISC 360TE, AISC 360TF, AISC 360TG, AISC 360TH, AISC 360TI, AISC 360TJ, AISC 360TK, AISC 360TL, AISC 360TM, AISC 360TN, AISC 360TO, AISC 360TP, AISC 360TQ, AISC 360TR, AISC 360TS, AISC 360TT, AISC 360TU, AISC 360TV, AISC 360TW, AISC 360TX, AISC 360TY, AISC 360TZ, AISC 360UA, AISC 360UB, AISC 360UC, AISC 360UD, AISC 360UE, AISC 360UF, AISC 360UG, AISC 360UH, AISC 360UI, AISC 360UJ, AISC 360UK, AISC 360UL, AISC 360UM, AISC 360UN, AISC 360UO, AISC 360UP, AISC 360UQ, AISC 360UR, AISC 360US, AISC 360UT, AISC 360UU, AISC 360UV, AISC 360UW, AISC 360UX, AISC 360UY, AISC 360UZ, AISC 360VA, AISC 360VB, AISC 360VC, AISC 360VD, AISC 360VE, AISC 360VF, AISC 360VG, AISC 360VH, AISC 360VI, AISC 360VJ, AISC 360VK, AISC 360VL, AISC 360VM, AISC 360VN, AISC 360VO, AISC 360VP, AISC 360VQ, AISC 360VR, AISC 360VS, AISC 360VT, AISC 360VU, AISC 360VV, AISC 360VW, AISC 360VX, AISC 360VY, AISC 360VZ, AISC 360WA, AISC 360WB, AISC 360WC, AISC 360WD, AISC 360WE, AISC 360WF, AISC 360WG, AISC 360WH, AISC 360WI, AISC 360WJ, AISC 360WK, AISC 360WL, AISC 360WM, AISC 360WN, AISC 360WO, AISC 360WP, AISC 360WQ, AISC 360WR, AISC 360WS, AISC 360WT, AISC 360WU, AISC 360WV, AISC 360WW, AISC 360WX, AISC 360WY, AISC 360WZ, AISC 360XA, AISC 360XB, AISC 360XC, AISC 360XD, AISC 360XE, AISC 360XF, AISC 360XG, AISC 360XH, AISC 360XI, AISC 360XJ, AISC 360XK, AISC 360XL, AISC 360XM, AISC 360XN, AISC 360XO, AISC 360XP, AISC 360XQ, AISC 360XR, AISC 360XS, AISC 360XT, AISC 360XU, AISC 360XV, AISC 360XW, AISC 360XX, AISC 360XY, AISC 360XZ, AISC 360YA, AISC 360YB, AISC 360YC, AISC 360YD, AISC 360YE, AISC 360YF, AISC 360YG, AISC 360YH, AISC 360YI, AISC 360YJ, AISC 360YK, AISC 360YL, AISC 360YM, AISC 360YN, AISC 360YO, AISC 360YP, AISC 360YQ, AISC 360YR, AISC 360YS, AISC 360YT, AISC 360YU, AISC 360YV, AISC 360YW, AISC 360YX, AISC 360YY, AISC 360YZ, AISC 360ZA, AISC 360ZB, AISC 360ZC, AISC 360ZD, AISC 360ZE, AISC 360ZF, AISC 360ZG, AISC 360ZH, AISC 360ZI, AISC 360ZJ, AISC 360ZK, AISC 360ZL, AISC 360ZM, AISC 360ZN, AISC 360ZO, AISC 360ZP, AISC 360ZQ, AISC 360ZR, AISC 360ZS, AISC 360ZT, AISC 360ZU, AISC 360ZV, AISC 360ZW, AISC 360ZX, AISC 360ZY, AISC 360ZZ.

DOUGLAS FLEMING
LICENSE
No. 66648
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

REF ASC7-02-CAB1030
DATE 2/23/07
DRWG A11030EEO207
-ENG

GABLE TRUSS DETAIL NOTES:

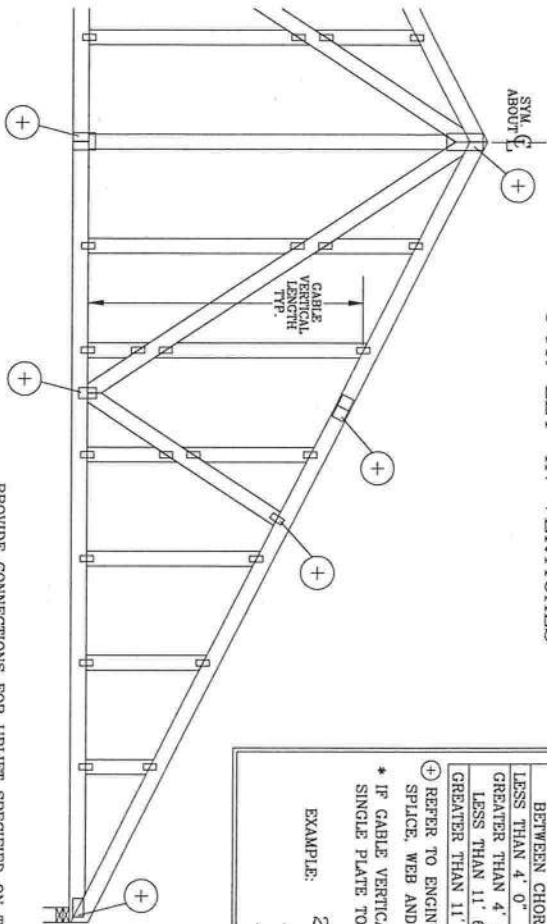
LIVE LOAD DEFLECTION CRITERIA IS L/240.
PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TO DEAD LOAD).
GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLTWOOD OVERHANG.
ATTACH EACH "L" BRACE WITH 104 NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2' 0" O.C. IN 18" END ZONES AND 4' 0" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3' 0" O.C. IN 18" END ZONES AND 6' 0" O.C. BETWEEN ZONES.
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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

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

CABLE DETAIL FOR LET-IN VERTICALS



CABLE VERTICAL PLATE SIZES

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

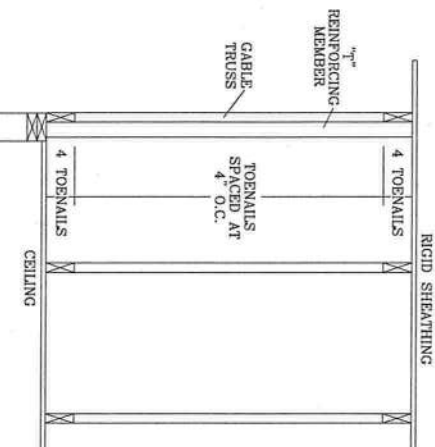
IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



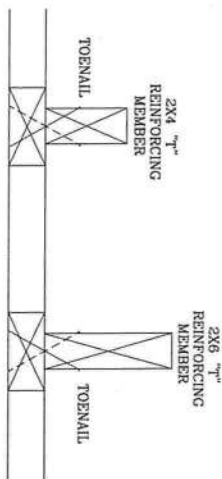
PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.
ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148" X 3.1" MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS:
8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.



ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A08515EC0207, A08530EC0207
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A08515EC0207, A08530EC0207
ASCE 7-05 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A08515EC0207, A08530EC0207
SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117, 876,719 & HC26294035



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "L" FACTOR BY LENGTH (BASED ON CABLE VERTICAL, SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED CABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

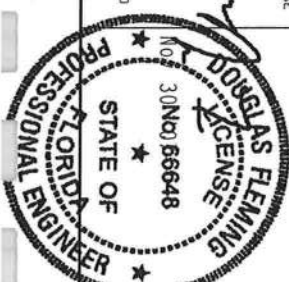
WIND SPEED "T" REINFORCED MEMBER SIZE	SBCCI	ASCE
110 MPH 2x4	10 %	10 %
110 MPH 2x6	40 %	50 %
110 MPH 2x8	10 %	10 %
100 MPH 2x4	10 %	10 %
100 MPH 2x6	30 %	50 %
100 MPH 2x8	10 %	10 %
90 MPH 2x4	20 %	40 %
90 MPH 2x6	20 %	40 %
90 MPH 2x8	10 %	10 %
80 MPH 2x4	10 %	20 %
80 MPH 2x6	10 %	20 %
80 MPH 2x8	10 %	20 %
70 MPH 2x4	0 %	20 %
70 MPH 2x6	0 %	20 %
70 MPH 2x8	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"L" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED CABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22304 AND VITA C/VIDO TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
IMPORTANT TURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASD) AND TPI, ITW, BCG CONNECTOR PLATES ARE MADE OF 20/18/16/6 (V/A/SS/V) ASTM A653 GRADE 40/60 (V/A/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DRAWING, PLATES SHALL BE PERMANENTLY ATTACHED TO THE TRUSS. THE TRUSS DESIGNER SHALL BE RESPONSIBLE FOR THE TRUSS DESIGN AND THE TRUSS COMPANION SHALL BE RESPONSIBLE FOR THE TRUSS COMPANION DESIGN. THE TRUSS COMPANION SHALL BE RESPONSIBLE FOR THE TRUSS COMPANION DESIGN. PER ANSI/TPI 1 SEC. 2.



REF	LEFT-IN VERT
DATE	2/23/07
DRWG	GBLETTIN0207
-ENG	DLI/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

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:

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Applicant |
| <input checked="" type="checkbox"/> | Plans Examiner |
| <input type="checkbox"/> | 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. |
| <input type="checkbox"/> | 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

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, I_w , 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/m^2) to be used for the design of exterior component and cladding materials not specially 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) Building height
- f) 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 system, 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 shall be designed by a Windload engineer using the engineered roof truss plans.
 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) (if required)
 7. Fire resistant construction (if required)
 8. Fireproofing requirements
 9. Shoe type of termite treatment (termite treatment 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 be 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. Cable 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) shall be designed by a Windload engineer using the engineered roof truss plans.
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 (termicide 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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.
2. **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.
3. **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)
4. **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
5. **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. Development permit cost is \$50.00
6. **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. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**
7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

Residential System Sizing Calculation

Summary

Cady Residence
Lake City, FL 32024-

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

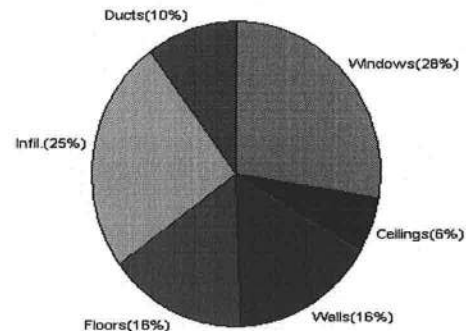
12/4/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	43545 Btuh	Total cooling load calculation	66836 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	121.7 53000	Sensible (SHR = 0.75)	70.8 39750
Heat Pump + Auxiliary(0.0kW)	121.7 53000	Latent	123.9 13250
		Total (Electric Heat Pump)	79.3 53000

WINTER CALCULATIONS

Winter Heating Load (for 1973 sqft)

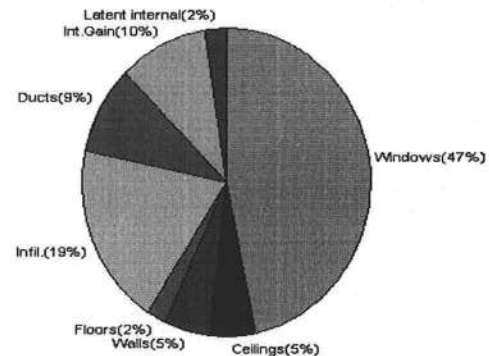
Load component		Load	
Window total	376 sqft	12103	Btuh
Wall total	2246 sqft	7011	Btuh
Door total	0 sqft	0	Btuh
Ceiling total	2100 sqft	2475	Btuh
Floor total	See detail report	6772	Btuh
Infiltration	265 cfm	10735	Btuh
Duct loss		4449	Btuh
Subtotal		43545	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		43545	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1973 sqft)

Load component		Load	
Window total	376 sqft	31176	Btuh
Wall total	2246 sqft	3381	Btuh
Door total	0 sqft	0	Btuh
Ceiling total	2100 sqft	3478	Btuh
Floor total		1480	Btuh
Infiltration	232 cfm	4316	Btuh
Internal gain		6640	Btuh
Duct gain		5671	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		56142	Btuh
Latent gain(ducts)		620	Btuh
Latent gain(infiltration)		8474	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
Total latent gain		10695	Btuh
TOTAL HEAT GAIN		66836	Btuh



Version 8
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: 

DATE: 12-4-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Cady Residence

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

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

12/4/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	72.0		32.2	2318 Btuh
2	2, Clear, Metal, 0.87	W	80.0		32.2	2575 Btuh
3	2, Clear, Metal, 0.87	W	100.0		32.2	3219 Btuh
4	2, Clear, Metal, 0.87	N	24.0		32.2	773 Btuh
5	2, Clear, Metal, 0.87	S	16.0		32.2	515 Btuh
6	2, Clear, Metal, 0.87	S	40.0		32.2	1288 Btuh
7	2, Clear, Metal, 0.87	S	12.0		32.2	386 Btuh
8	2, Clear, Metal, 0.87	E	32.0		32.2	1030 Btuh
Window Total			376(sqft)			12103 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	860		2.9	2459 Btuh
2	Frame - Wood - Adj(0.09)	13.0	1386		3.3	4552 Btuh
Wall Total			2246			7011 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2100		1.2	2475 Btuh
Ceiling Total			2100			2475 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	5	135.0 ft(p)		16.4	2208 Btuh
2	Raised Wood - Adj	5	950.0 sqft		4.8	4564 Btuh
Floor Total			1085			6772 Btuh
Envelope Subtotal:						28361 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=		
	Natural	0.80	19876	2246	265.0	10735 Btuh
Ductload					(DLM of 0.114)	4449 Btuh
All Zones	Sensible Subtotal All Zones					43545 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	43545 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	43545 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Cady Residence

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

12/4/2007

EQUIPMENT

1. Electric Heat Pump	#	53000 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)



Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Cady Residence

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

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

12/4/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	72.0		32.2	2318 Btuh
2	2, Clear, Metal, 0.87	W	80.0		32.2	2575 Btuh
3	2, Clear, Metal, 0.87	W	100.0		32.2	3219 Btuh
4	2, Clear, Metal, 0.87	N	24.0		32.2	773 Btuh
5	2, Clear, Metal, 0.87	S	16.0		32.2	515 Btuh
6	2, Clear, Metal, 0.87	S	40.0		32.2	1288 Btuh
7	2, Clear, Metal, 0.87	S	12.0		32.2	386 Btuh
8	2, Clear, Metal, 0.87	E	32.0		32.2	1030 Btuh
Window Total			376(sqft)			12103 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	860		2.9	2459 Btuh
2	Frame - Wood - Adj(0.09)	13.0	1386		3.3	4552 Btuh
Wall Total			2246			7011 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2100		1.2	2475 Btuh
Ceiling Total			2100			2475Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	5	135.0 ft(p)		16.4	2208 Btuh
2	Raised Wood - Adj	5	950.0 sqft		4.8	4564 Btuh
Floor Total			1085			6772 Btuh
Zone Envelope Subtotal:						28361 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	Load
	Natural	0.80	12276	2246	265.0	10735 Btuh
Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.114)					4449 Btuh
Zone #1	Sensible Zone Subtotal					43545 Btuh

Component Loads for Zone #2: Loft

(This zone has no designated component load.)

Manual J Winter Calculations

Residential Load - Component Details (continued)

Cady Residence
Lake City, FL 32024-

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

12/4/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	43545 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	43545 Btuh

EQUIPMENT

1. Electric Heat Pump	#	53000 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)



Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Cady Residence

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

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

12/4/2007

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1.5ft	12ft.	72.0	0.0	72.0	29	80	5725	Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	12ft.	80.0	0.0	80.0	29	80	6361	Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	12ft.	100.0	0.0	100.0	29	80	7952	Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	12ft.	24.0	0.0	24.0	29	29	695	Btuh
5	2, Clear, 0.87, None,N,N	S	1.5ft	12ft.	16.0	0.0	16.0	29	34	538	Btuh
6	2, Clear, 0.87, None,N,N	S	1.5ft	12ft.	40.0	25.1	14.9	29	34	1228	Btuh
7	2, Clear, 0.87, None,N,N	S	1.5ft	12ft.	12.0	0.0	12.0	29	34	404	Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545	Btuh
	Excursion									5729	Btuh
	Window Total				376 (sqft)					31176 Btuh	
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext		19.0/0.08		860.0			1.5		1289 Btuh	
2	Frame - Wood - Adj		13.0/0.09		1386.0			1.5		2091 Btuh	
	Wall Total				2246 (sqft)					3381 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		2100.0			1.7		3478 Btuh	
	Ceiling Total				2100 (sqft)					3478 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		5.0		135 (ft(p))			0.0		0 Btuh	
2	Raised Wood - Adj		5.0		950 (sqft)			1.6		1480 Btuh	
	Floor Total				1085.0 (sqft)					1480 Btuh	
	Envelope Subtotal:										39515 Btuh
Infiltration	Type		ACH		Volume(cuft)		wall area(sqft)		CFM=	Load	
	SensibleNatural		0.70		19876		2246		265.0	4316 Btuh	
Internal gain			Occupants		Btuh/occupant		Appliance			Load	
			8		X 230		+		4800	6640 Btuh	
	Sensible Envelope Load:										50470 Btuh
Duct load	(DGM of 0.112)										5671 Btuh
	Sensible Load All Zones										56142 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cady Residence

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

12/4/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	50470 Btuh
	Sensible Duct Load	5671 Btuh
	Total Sensible Zone Loads	56142 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	56142 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	8474 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	620 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	10695 Btuh
	TOTAL GAIN	66836 Btuh

EQUIPMENT

1. Central Unit	#	53000 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)



Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Cady Residence

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

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

12/4/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1.5ft	12ft.	72.0	0.0	72.0	29	80	5725	Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	12ft.	80.0	0.0	80.0	29	80	6361	Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	12ft.	100.0	0.0	100.0	29	80	7952	Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	12ft.	24.0	0.0	24.0	29	29	695	Btuh
5	2, Clear, 0.87, None,N,N	S	1.5ft	12ft.	16.0	0.0	16.0	29	34	538	Btuh
6	2, Clear, 0.87, None,N,N	S	1.5ft	12ft.	40.0	25.1	14.9	29	34	1228	Btuh
7	2, Clear, 0.87, None,N,N	S	1.5ft	12ft.	12.0	0.0	12.0	29	34	404	Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545	Btuh
Window Total					376 (sqft)					25447 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	19.0/0.08			860.0		1.5		1289 Btuh		
2	Frame - Wood - Adj	13.0/0.09			1386.0		1.5		2091 Btuh		
Wall Total					2246 (sqft)				3381 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			2100.0		1.7		3478 Btuh		
Ceiling Total					2100 (sqft)				3478 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	5.0			135 (ft(p))		0.0		0 Btuh		
2	Raised Wood - Adj	5.0			950 (sqft)		1.6		1480 Btuh		
Floor Total					1085.0 (sqft)				1480 Btuh		
Zone Envelope Subtotal:										33786 Btuh	
Infiltration	Type	ACH			Volume(cuft)		wall area(sqft)		CFM=		Load
	SensibleNatural	0.70			12276		2246		231.9		4316 Btuh
Internal gain		Occupants			Btuh/occupant		Appliance		Load		
		4			X 230		+		2400		3320 Btuh
Sensible Envelope Load:										41422 Btuh	
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)							(DGM of 0.112)		4655 Btuh	
Sensible Zone Load										46076 Btuh	

Component Loads for Zone #2: Loft

	Zone Envelope Subtotal:						0 Btuh	
Infiltration	Type	ACH	Volume(cuft)		wall area(sqft)	CFM=	Load	
	SensibleNatural	0.70	7600		2246	0.0	0 Btuh	
Internal gain		Occupants	Btuh/occupant			Appliance	Load	
		4	X	230	+	2400	3320 Btuh	
	Sensible Envelope Load:						3320 Btuh	
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)					(DGM of 0.112)	373 Btuh	
	Sensible Zone Load						3693 Btuh	
	EnergyGauge® F1 RCPB v4.5.2						Pa	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cady Residence
Lake City, FL 32024-

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

12/4/2007

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1	Excursion Subtotal:	5729 Btuh 5729 Btuh
Duct load			644 Btuh
		Sensible Excursion Load	6372 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cady Residence
Lake City, FL 32024-

Project Title:
Jared & Stacy Cady

Code Only
Professional Version
Climate: North

12/4/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	50470 Btuh
	Sensible Duct Load	5671 Btuh
	Total Sensible Zone Loads	56142 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	56142 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	8474 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	620 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	10695 Btuh
	TOTAL GAIN	66836 Btuh

EQUIPMENT

1. Central Unit	#	53000 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)



Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Cady Residence

Project Title:
Jared & Stacy Cady

Lake City, FL 32024-

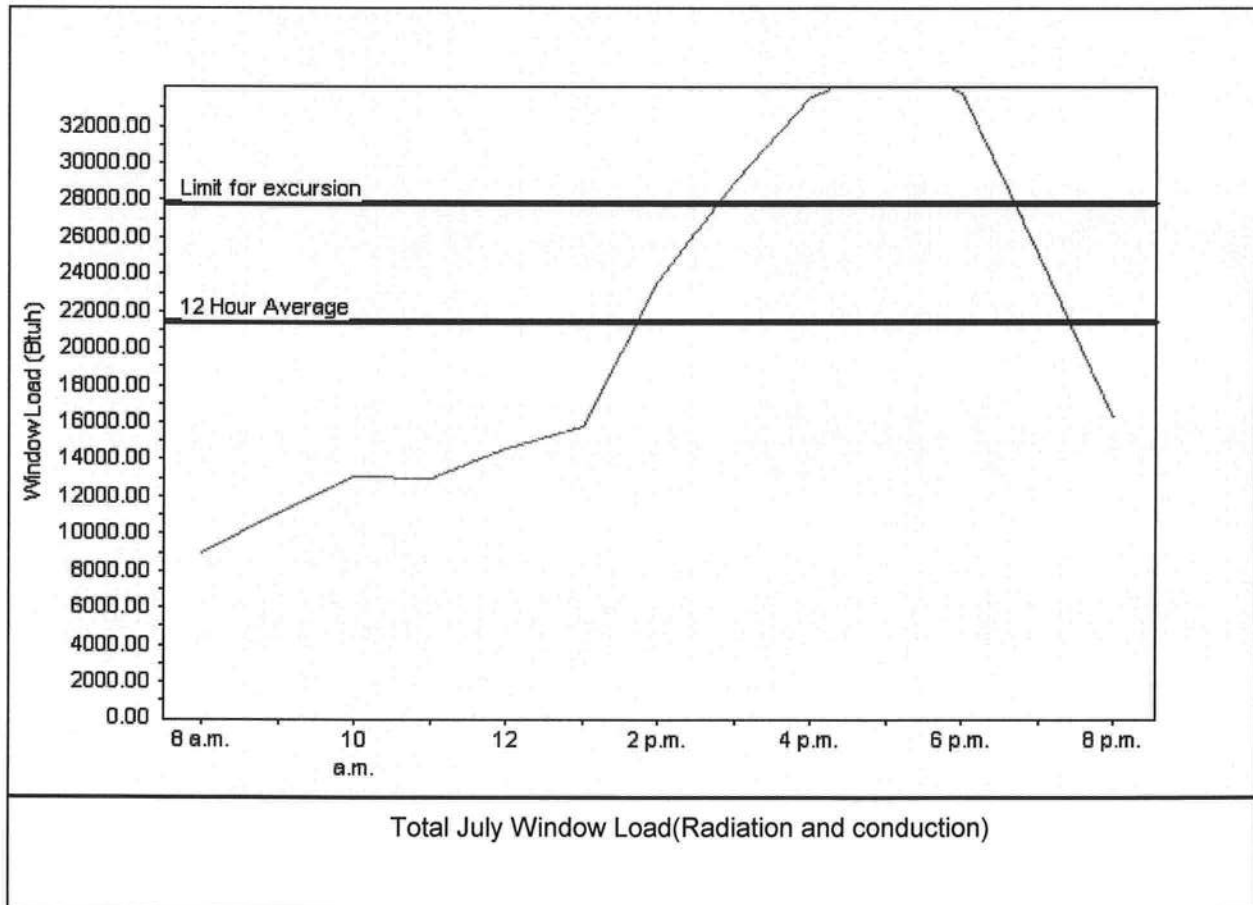
Code Only
Professional Version
Climate: North

12/4/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	21408 Btu
Summer setpoint	75 F	Peak window load for July	35320 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	27830 Btu
Latitude	29 North	Window excursion (July)	7490 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

