

Columbia County Building Permit Application

For Office Use Only Application # 0701-89 Date Received 1/24/07 By G Permit # 1327/1551
 Application Approved by - Zoning Official BLK Date 2.02.07 Plans Examiner OKJTH Date 2-12-07
 Flood Zone X Development Permit N/A Zoning PRRD Land Use Plan Map Category A-3
 Comments Per County Manager Pending Signed development agreement from Property owner and Developer Per County Manager. NOC

Applicants Name Glenwood King Phone 397-4708
 Address 139 SW Dunn Way LC FL 32024
 Owners Name Kevin + Heather Gray Phone 365-4777-2129
 911 Address 325 NW High Point Drive, L.C. 32055
 Contractors Name Glenwood King Construction Inc. Phone 397-4708
 Address 139 SW Dunn Way LC FL 32024
 Fee Simple Owner Name & Address NA
 Bonding Co. Name & Address NA
 Architect/Engineer Name & Address Mark Disosway
 Mortgage Lenders Name & Address 1st Federal
 Parent Parcel
 Property ID Number 20-35-0-2203-004 Estimated Cost of Construction \$400,000.00
 Subdivision Name Highpoint Farms Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions 4590 west to Brown Rd to Left Brook Loop to Right High-Point-Drive to 1st House Lot past Red Barn on right
 Type of Construction New Home Number of Existing Dwellings on Property 0
 Total Acreage 4.8 Lot Size _____ Do you need a Submittal Permit or Culvert Waiver or Have an Existing D
 Actual Distance of Structure from Property Lines - Front 60 FT Side 120 FT Side 170 FT Rear 410 FT
 Total Building Height 27'-6" Number of Stories 1 Heated Floor Area 3407 Roof Pitch 9/12
RSW 4930

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.

Glenwood King, Pres.
 Owner Builder or Agent (Including Contractor) _____ Contractor Signature Glenwood King
 Contractors License Number CBC 059726

STATE OF FLORIDA
 COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me
 this 24th day of January 20 07.
 Personally known ✓ or Produced Identification _____

NOTARY STAMP/SEAL

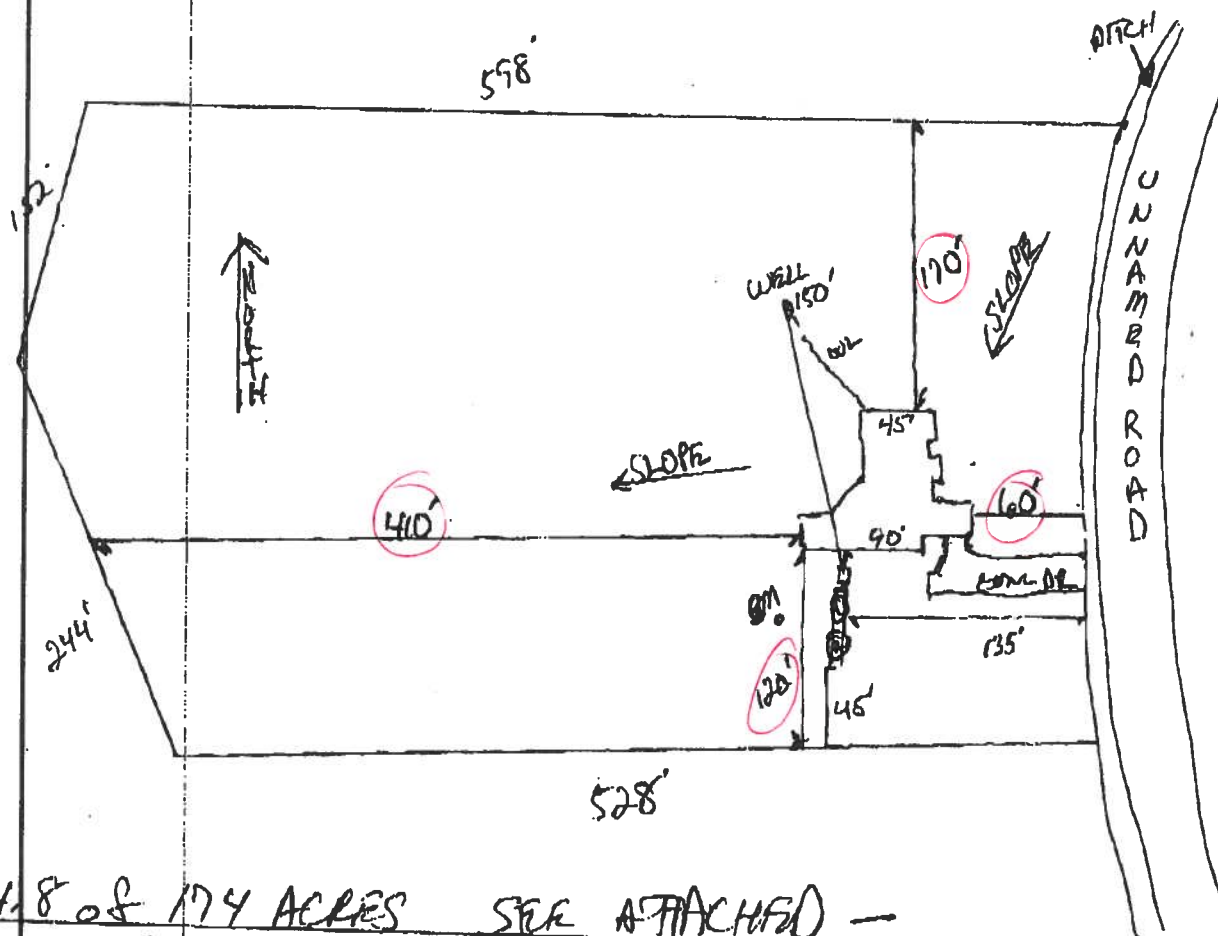
Gale Tedder
 Notary Signature

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

Permit Application Number 06-09410

Highpoint Farms LLC PART II - SITEPLAN
(Gray)

Scale: 1 inch = 100 feet.



Notes: 4.8 of 174 ACRES SEE ATTACHED -
SUBDIVISION NOT YET RECORDED

Site Plan submitted by: Rock D F

Plan Approved ☒

Not Approved ☐

MASTER CONTRACTOR

By mm a dan

Date 10/27/06

Columbia

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4016, 10/96 (Replaces HRS-H Form 4016 which may be used)
(Stock Number: 5744-002-4015-8)

Page 2 of 4

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 06-503
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Inst:2006029456 Date:12/14/2006 Time:16:01

Doc Stamp Deed : 594.30

DC, P. DeWitt Cason, Columbia County B:1104 P:2607

Property Appraiser's
Identification Number
Part of 20-35-16-02203-003

WARRANTY DEED

This Warranty Deed, made this 13th day of December, 2006, BETWEEN HIGHPOINT FARMS, LLC, A Florida Limited Liability Company, whose post office address is 4158 US Highway 90 West, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and KEVIN H. GRAY and HEATHER GRAY, Husband and Wife whose post office address is 4645 W Shortleaf Drive, Lake City, FL 32024, of the County of Columbia, State of Florida, grantee*.

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

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:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

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

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

TERRY McDAVID
ATTORNEY AT LAW
178 SE HERNANDO AVENUE
LAKE CITY, FL 32025-4422
TELEPHONE: (386) 752-1896
FAX: (386) 752-8905

FAX COVER SHEET

TO: Heather GrayDATE: 1-09-

ATTN: _____

FROM: Crystal

FAX # _____

PAGES (including cover sheet)

COMMENTS:

Warranty Dead and Easement
per our conversation.

Thank You

Crystal

THE INFORMATION CONTAINED IN THIS FACSIMILE IS CONFIDENTIAL AND MAY ALSO BE SUBJECT TO THE ATTORNEY CLIENT PRIVILEGE OR MAY CONSTITUTE PRIVILEGED WORK PRODUCT. The information is intended only for the use of the individual or entity to whom it is addressed. If you are not the intended recipient, or the agent or employee responsible to deliver it to the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this facsimile in error, please immediately notify us by telephone and return the original message to us at the address above via the U.S. Postal Service. Thank you.

Signed, sealed and delivered
in our presence:

HIGHPOINT FARMS, LLC


(Signature of First Witness)

Terry McDavid

(Typed Name of First Witness)


Grantor

(SEAL)

By: O.P. DAUGHTRY, III,
Managing Member


(Signature of Second Witness)

Crystal L. Brunner

(Typed Name of Second Witness)

Inst:2006029456 Date:12/14/2006 Time:16:01
Doc Stamp-Deed : 596.30

DC, P. DeWitt Cason, Columbia County 8-1104 P-2606

STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 13th day of December, 2006, by O.P. DAUGHTRY, III, as Managing Member of HIGHPOINT FARMS, LLC, A Florida Limited Liability Company who is personally known to me and who did not take an oath.

My Commission Expires:


Notary Public

Printed, typed, or stamped name:



Inst:2006029456 Date:12/14/2006 Time:16:01

Doc Stamp-Deed : 596.30

DC, P. DeWitt Cason, Columbia County B:1104 P:2609

EXHIBIT "A"

PART OF THE WEST 1/2 OF SECTION 20, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR POINT OF REFERENCE COMMENCE AT THE SOUTHEAST CORNER OF SAID WEST 1/2, THENCE RUN NORTH 89°26'44" WEST ALONG THE SOUTH LINE OF SECTION 20, A DISTANCE OF 2734.37 FEET TO THE SOUTHWEST CORNER OF SAID SECTION 20; THENCE RUN NORTH 01°49'04" WEST ALONG THE WEST LINE OF SAID SECTION 20, A DISTANCE OF 2356.30 FEET; THENCE RUN SOUTH 51°13'42" EAST, A DISTANCE OF 339.80 FEET; THENCE RUN NORTH 01°47'58" EAST, A DISTANCE OF 551.97 FEET; THENCE RUN SOUTH 77°23'25" EAST, A DISTANCE OF 1123.32 FEET; THENCE RUN NORTH 13°11'18" EAST, A DISTANCE OF 90.30 FEET; THENCE RUN SOUTH 74°13'50" EAST, A DISTANCE OF 373.17 FEET; THENCE RUN SOUTH 12°28'40" WEST, A DISTANCE OF 432.57 FEET TO THE POINT OF BEGINNING; THENCE RUN SOUTH 88°49'32" EAST, A DISTANCE OF 598.36 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF A PROPOSED 60.00 FOOT RIGHT-OF-WAY, SAID POINT BEING IN A CURVE CONCAVED EASTERLY HAVING A RADIUS OF 2030.00 FEET; THENCE RUN ALONG AND AROUND SAID CURVE AND SAID WEST RIGHT-OF-WAY LINE, A CHORD BEARING AND DISTANCE OF SOUTH 01°31'01" WEST, 332.88 FEET; THENCE RUN SOUTH 86°48'50" WEST, A DISTANCE OF 528.36 FEET; THENCE RUN NORTH 22°47'16" WEST, A DISTANCE OF 244.74 FEET; THENCE RUN NORTH 12°28'40" EAST, A DISTANCE OF 152.35 FEET TO THE POINT OF BEGINNING.

SUBJECT TO A UTILITY EASEMENT OVER AND ACROSS THE EAST 20.00 FEET THEREOF.

Inst:2006029457 Date:12/14/2006 Time:16:01

Doc Stamp-Deed : 0.70

DC, P. DeWitt Cason, Columbia County B:1104 P:2610

This Instrument was Prepared by:
Terry McDavid
Post Office Box 1328
Lake City, FL 32056-1328
File No. 06-503

EASEMENT

THIS EASEMENT, dated and entered into this 13th day of December, 2006, by and between HIGHPOINT FARMS, LLC, A Florida Limited Liability Company, party of the first part, and KEVIN H. GARY and HEATHER GRAY, Husband and Wife, parties of the second part.

WITNESSETH:

That the parties of the first part for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable considerations, to them this day in hand paid by the parties of the second part, the receipt and sufficiency of which are hereby acknowledged, hereby grant unto the parties of the second part, their heirs and assigns, a non-exclusive perpetual easement for the purpose of ingress, egress and utilities over and across the following described lands in Columbia County, Florida, to-wit:
SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

TO HAVE AND TO HOLD the same unto the parties of the second part, their heirs and assigns.

This easement shall be binding upon and shall inure to the benefit of the heirs, successors, administrators, and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties of the first part have set their hands and seals the day and year first above written.

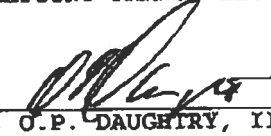
Inst:2006029457 Date:12/14/2006 Time:16:01

Doc Stamp-Deed : 0.70

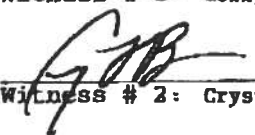
DC,P.Dewitt Cason,Columbia County B:1104 P:2611

Signed in the presence of:

HIGHPOINT FARMS, LLC


Witness # 1: Terry McDavid
By: O.P. DAUGHTRY, III,
Managing Member

(SEAL)


Witness # 2: Crystal L. BrunnerSTATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 12th day of December, 2006, by O.P. DAUGHTRY, III, as Managing Member of HIGHPOINT FARMS, LLC, A Florida Limited Liability Company, who is personally known to me and who did take an oath.


Notary Public
My Commission Expires: _____

Inst:2006029457 Date:12/14/2006 Time:16:01

Doc Stamp-Deed : 0.70

DC,P.Dewitt Cason,Columbia County B:1104 P:2512

EXHIBIT "A"

A 60.00 foot right-of-way , situated in the West 1/2 of Section 20, Township 3 South, Range 16 East, Columbia County, Florida, lying 30.00 feet either side of and parallel to the following described centerline: For Point of Reference commence at the Southeast Corner of said West 1/2, thence run North 01 deg. 03'36" West along the East line of said West 1/2, a distance of 2650.06 feet to the Point of Beginning of herein described centerline; thence run along said centerline the following courses: North 89 deg. 26'09" West, 171.39 feet to the Point of Curve of a curve concaved Southeasterly having a radius of 230.00 feet; thence run along and around said curve, a chord bearing and distance of South 55 deg. 25'57" West, 264.71 feet to the Point of Compound curve of a curve concaved Easterly, having a radius of 2000.00 feet; thence run along and around said curve, a chord bearing and distance of South 06 deg. 41'20" West, 941.39 feet to the Terminus of said courses and said centerline.

20-35-16-02203-004 CARD 001 of 00 2007
Columbia County 1/24/2007 16:41 by LARRY
PRINTED 7/13/2006 DE
GRAY KEVIN H & HEATHER
4645 SW SHORTLEAF DRIVE
LAKE CITY, FL 32024
20316.00 NBHD 20316.00 NO AG ACREAGE
P-USE 003900 S7/R MA 01 0 BLOC
% AYB EYB PUD 1 AC 4.820 72,300 XFOI
NTCD APPC CNDG SUBD BLK LOT MAP # SOH
TXDT 003 ASSI EXPT TXBL
BUILDING TRAVERSE

USE	AE?	HTD AREA	INDEX	E-RATE	LUMP ADJ	BLDG VAL	% GOOD	FIELD CHECKED:	UT	PRICE	ADJ UT PRICE	SPCD %	% GOOD	XFOB VALUE
100		EFF AREA						UT						
200		RCN												
300		% GOOD												
400		FIELD CHECKED:												
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SUB		A-AREA		%	E-AREA	SUB VALUE								

BN	CODE	DESC	LENGTH	WIDTH	HGHT	QTY	QUAL	YEAR	ADJ	UNITS	UT	PRICE	ADJ UT PRICE	SPCD %	% GOOD	XFOB VALUE
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EXTRA FEATURES																	FIELD CHECKED:						
BN	CODE	DESC	LENGTH	WIDTH	HGHT	QTY	QUAL	YEAR	ADJ	UNITS	UT	PRICE	ADJ UT PRICE	SPCD %	% GOOD	XFOB VALUE							
															</								

FORM 600C-01

Small Additions, Renovations & Building Systems

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Residential Limited Applications Prescriptive Method C

NORTH 1 2 3

Compliance with Method C of Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600C-01 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single and multifamily residences. Alternative methods are provided for additions by use of Form 600B-01 or 600A-01.

PROJECT NAME: AND ADDRESS:	Kevin + Heather Gray 464 SW Shortleaf Dr Lake City FL 32024	BUILDER: PERMITTING OFFICE:	Glenwood King Const Inc Columbia	CLIMATE ZONE:	1 ☐ 2 ☐ 3 ☒
OWNER:	Kevin + Heather Gray	PERMIT NO.:	25512	JURISDICTION NO.:	221000

SMALL ADDITIONS TO EXISTING RESIDENCES (600 Square feet or less of conditioned area). Prescriptive requirements in Tables 6C-1, 6C-2 and 6C-3 apply only to the components of the addition, not to the existing building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components separating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. RENOVATIONS (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 6C-1 and 6C-2 apply only to the components and equipment being renovated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covered by this form. BUILDING SYSTEMS Comply when complete new system is installed.

1. Renovation, Addition, New System or Manufactured Home
2. Single family detached or Multifamily attached
3. If Multifamily—No. of units covered by this submission
4. Conditioned floor area (sq. ft.)
5. Predominant eave overhang (ft.)
6. Glass area and type:
 - a. Clear glass
 - b. Tint, film or solar screen
7. Percentage of glass to floor area
8. Floor type and insulation:
 - a. Slab-on-grade (R-value)
 - b. Wood, raised (R-value)
 - c. Wood, common (R-value)
 - d. Concrete, raised (R-value)
 - e. Concrete, common (R-value)
9. Wall type and insulation:
 - a. Exterior:
 1. Masonry (Insulation R-value)
 2. Wood frame (Insulation R-value)
 - b. Adjacent:
 1. Masonry (Insulation R-value)
 2. Wood frame (Insulation R-value)
 - c. Marriage Walls of Multiple Units* (Yes/No)
10. Ceiling type and insulation:
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
11. Cooling system*
(Types: central, room unit, package terminal A.C., gas, existing, none)
12. Heating system*: (Types: heat pump, elec. strip, natural gas, L.P. gas, gas h.p., room or PTAC, existing, none)
13. Air Distribution System*:
 - a. Backflow damper or single package systems* (Yes/No)
 - b. Ducts on marriage walls adequately sealed* (Yes/No)
14. Hot water system:
(Types: elec., natural gas, other, existing, none)

* Pertains to manufactured homes with site installed components.

Please Print		CK
1.	New	
2.	Single	
3.		
4.	3407.5	
5.	1'-6"	
Single Pane Double Pane		
6a.	sq. ft. 712	sq. ft.
6b.	sq. ft.	sq. ft.
7.	21 %	
8a.	R= 0	lin. ft.
8b.	R=	sq. ft.
8c.	R=	sq. ft.
8d.	R=	sq. ft.
8e.	R=	sq. ft.
9a-1	R=	sq. ft.
9a-2	R= 13	4222 sq. ft.
9b-1	R=	sq. ft.
9b-2	R=	sq. ft.
9c	No	
10a.	R= 30	3407 sq. ft.
10b.	R=	sq. ft.
11.	Type: Central	
	SEER/EER: 14	
12.	Type: Heat Pump	
	HSPF/COP/AFUE:	
13a.	Yes	
13b.	No	
14.	Type: Elec	
	EF:	

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

PREPARED BY: Glenwood King DATE: 1-19-07

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

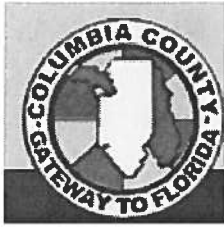
OWNER AGENT:

DATE:

Review of 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 in accordance with Section 553.908, F.S.

BUILDING OFFICIAL:

DATE:



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

Reference to a building permit application Number: **0701-89**

Applicant: Glenwood King Construction, Owner: Kevin & Heather Gray: Property ID 20-3s-022030-003.

On the date of January 30, 2007 application 0712-89 and plans for construction of single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0701-89 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. A HVAC mechanical room is shown to be within the garage area, please show that this room will comply with section 406.1.4 of the Florida Residential Building Code, which requires that separations shall comply with the following:

A: Ducts in a private garage and ducts penetrating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a

minimum 0.019-inch (0.48 mm) sheet steel and shall have no openings into the garage.

3. In the master bath tub area please verify compliance with the FRC-2004 section R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

4. The door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors, or solid or honeycomb core steel doors not less than 13/8 inches (34.9 mm) thick, or doors in compliance with Section 715.3.3.

5. The attic area over the garage is shown as uninhabitable rooms. Please provide the location of the access door to this area. Provide product information showing that the door will comply with section 406.1.4 of the code, which requires this door to have a fire rating of 20 minutes.

6. In bedroom number three a 2860 window is shown. Please verify that this window will meet the requirements of section R310.1.1. Grade floor window openings shall have a minimum net clear opening of 5 square feet for emergency escape and rescue.

7. Please show on the electrical plans the locations of the required smoke alarms to provide for compliance with the section R313.1 smoke alarms: Smoke alarms shall be installed in the following locations:

1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basements but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

All smoke alarms shall be listed and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

5. On the electrical plan a 300 amp electrical panel is shown in the garage. An overcurrent protection device shall be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

6. When constructing this structure use only the windload information and structural design requirements of Mr. Mark Disosway P. E. Job number: 608087 that accompany the submitted plan, which defines the structural and windload design requirement for this structure.

Thank You:



Joe Haltiwanger
Plan Examiner
Columbia County Building
Department

SHW. WEEGIE

**Columbia County Building Department
Culvert Waiver**

**Culvert Waiver No.
000001327**

DATE: 02/12/2007 BUILDING PERMIT NO. 25512

APPLICANT GLENWOOD KING PHONE 386.397.4708

ADDRESS 139 SW DUNN WAY LAKE CITY FL 32024

OWNER KEVIN & HEATHER GRAY PHONE 386.752.1294

ADDRESS 325 HIGH-POINT-DRIVE LAKE CITY FL 32055

CONTRACTOR GLENWOOD KING PHONE 397.4708

LOCATION OF PROPERTY 90-W TO BROWN ROAD, TR TO BROOK LOOP, TL TO HIGH-POINT-DRIVE, TR
GO TO 1ST. HOUSE LOT PAST RED BARN ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT _____

PARCEL ID # 20-3S-16-02203-004

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

SIGNATURE: Glenwood King

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

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

☒ APPROVED ☐ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: _____

SIGNED: [Signature] DATE: 2-15-07

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

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

RECEIVED
FEB 09 2007
By: RECEIVED
FEB 12 2007
By: _____



Heating and Air Conditioning Economic Analysis

For Future / Existing Home Of

Kevin Gray

Lake City, Fl

Conducted By

Country Comfort Heating & A. C.

278 S. W. Summers Lane

Lake City, Fl 32025

386-752-5841

Wrightsoft Corporation

*Note: Actual costs and savings may differ due to weather, operating
conditions, maintenance, and construction.*



Project Summary

Entire House

Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AM

2705 W. Summer Lane, Lake City, FL 32025 Phone: 386-752-5841

Project Information

For: Kevin Gray
Lake City, FL

Notes: New Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db 25 °F
Inside db 70 °F
Design TD 45 °F

Summer Design Conditions

Outside db 97 °F
Inside db 78 °F
Design TD 19 °F
Daily range M
Relative humidity 50 %
Moisture difference 30 gr/lb

Heating Summary

Structure 47701 Btuh
Ducts 2385 cfm
Central vent (0 cfm) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 50086 Btuh

Infiltration

Method: Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	3150	3150
Volume (ft³)	37372	37372
Air changes/hour	0.70	0.40
Equip AVF (cfm)	436	249

Heating Equipment Summary

Make n/a
Trade n/a
Mode n/a

Efficiency n/a
Heating input 0 Btuh
Heating output 0 °F
Temperature rise 0 cfm
Actual air flow 0.000 cfm/Btuh
Air flow factor 0.00 in H2O
Static pressure n/a
Spec thermostat n/a

Sensible Cooling Equipment Load Sizing

Structure 35073 Btuh
Ducts 3507 Btuh
Central vent (0 cfm) 0 Btuh
Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 1.02
Equipment sensible load 39352 Btuh

Latent Cooling Equipment Load Sizing

Structure 10585 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh
Equipment latent load 10585 Btuh

Equipment total load 49937 Btuh
Req. total capacity at 0.70 SHR 4.7 ton

Cooling Equipment Summary

Make n/a
Trade n/a
Cond n/a
Coil n/a

Efficiency n/a
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 cfm
Actual air flow 0.000 cfm/Btuh
Air flow factor 0.00 in H2O
Static pressure 0.00
Load sensible heat ratio 0.00

Bold/italic values have been manually overridden

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



Project Summary

Master Suite end

Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

271 S. W. Summer Lane, Lake City, FL 32025 Phone: 386-752-5841

Project Information

For: Kevin Gray
Lake City, FL

Notes: New Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	25 °F
Inside db	70 °F
Design TD	45 °F

Summer Design Conditions

Outside db	97 °F
Inside db	78 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Structure	18156 Btuh
Ducts	908 cfm
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	19064 Btuh

Sensible Cooling Equipment Load Sizing

Structure	8759 Btuh
Ducts	876 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.02
Equipment sensible load	9827 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	944	944
Volume (ft³)	11331	11331
Air changes/hour	0.88	0.50
Equip. AVF (cfm)	167	95

Latent Cooling Equipment Load Sizing

Structure	2856 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	2856 Btuh
Equipment total load	12683 Btuh
Req. total capacity at 0.70 SHR	1.2 ton

Heating Equipment Summary

Make	AmStd
Trade	Heritage 12
Model	2A6H2018A1
Efficiency	7.3 HSPF
Heating input	16100 Btuh @ 47°F
Heating output	35 °F
Temperature rise	417 cfm
Actual air flow	0.022 cfm/Btuh
Air flow factor	0.00 in H2O
Static pressure	
Space thermostat	

Cooling Equipment Summary

Make	AmStd
Trade	Heritage 12
Cond	2A6H2018A1
Coil	TWE031E13
Efficiency	13 SEER
Sensible cooling	12740 Btuh
Latent cooling	5460 Btuh
Total cooling	18200 Btuh
Actual air flow	417 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.77

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Project Summary BR3, BR2, Game R Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

1775 S. W. 17th Ave, Lake City, FL 32025 Phone: 386-752-5841

Project Information

For: Kevin Gray
Lake City, FL

Notes: New Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	25 °F
Inside b	70 °F
Design TD	45 °F

Summer Design Conditions

Outside db	97 °F
Inside db	78 °F
Design TD	19 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Structure	29545 Btuh
Ducts	1477 cfm
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	31022 Btuh

Sensible Cooling Equipment Load Sizing

Structure	26314 Btuh
Ducts	2631 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0
Area (ft²)	2206
Volume (ft³)	26041
Air changes/hour	0.62
Equipment AVF (cfm)	269

Latent Cooling Equipment Load Sizing

Structure	7729 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	7729 Btuh
Equipment total load	37254 Btuh
Req. total capacity at 0.70 SHR	3.5 ton

Heating Equipment Summary

Make	AmStd
Trade	Heritage 12
Model	2A6H2042A1
Efficiency	8.4 HSPF
Heating input	38500 Btuh @ 47°F
Heating output	28 °F
Temperature rise	1253 cfm
Actual air flow	0.040 cfm/Btuh
Air flow factor	0.00 in H2O
Static pressure	
Space thermostat	

Cooling Equipment Summary

Make	AmStd
Trade	Heritage 12
Cond	2A6H2042A1
Coil	TWE040E13
Efficiency	13 SEER
Sensible cooling	29750 Btuh
Latent cooling	12750 Btuh
Total cooling	42500 Btuh
Actual air flow	1253 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.79

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BR3, BR2, Game R	d	2206	31022	28946	1253	1253
Other equip. loads			0	0		
Equip. @ 1.02 RSM				29525		
Latent cooling				7729		
TOTALS		2206	31022	37254	1253	1253

Bold/italic values have been manually overridden

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Right-J Worksheet Entire House Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

276 S. W. ... Lane, Lake City, FL 32025 Phone 386-752-5841

MANUAL J 7th Ed.														
1. Name of project: Entire House														
2. Length of exposed walls: 199.3 ft														
3. Room dimensions: Master Suite end 78.2 ft														
4. Ceilings: BR3, BR2, Game R 121.2 ft														
TYPE OF EXPOSURE	Condit. Option				11.9 ft heat/cool d			12.0 ft d n			11.8 ft d n			Area
	CST NO.	HTM	Htg	Cig	Area (ft²)	Load (Btuh)		Area (ft²)	Load (Btuh)		Area (ft²)	Load (Btuh)		
5. Gross Exposed walls and partitions	a	12D2	3.6	1.8	2291	****	****	942	****	****	1349	****	****	
	b		0.0	0.0	0	****	****	0	****	****	0	****	****	
	c		0.0	0.0	0	****	****	0	****	****	0	****	****	
	d		0.0	0.0	0	****	****	0	****	****	0	****	****	
	e		0.0	0.0	0	****	****	0	****	****	0	****	****	
	f		0.0	0.0	0	****	****	0	****	****	0	****	****	
6. Windows glass doors Heating	a	3F0	21.4	**	333	7126	****	127	2724	****	206	4403	****	
	b		0.0	**	0	0	****	0	0	****	0	0	****	
	c		0.0	**	0	0	****	0	0	****	0	0	****	
	d		0.0	**	0	0	****	0	0	****	0	0	****	
	e		0.0	**	0	0	****	0	0	****	0	0	****	
	f		0.0	**	0	0	****	0	0	****	0	0	****	
7. Windows glass doors Cooling	North		3.5	152	****	1866	74	****	926	78	****	940	****	
	NE/NW		26.8	54	****	1454	18	****	465	36	****	969	****	
	E/W		40.0	127	****	5335	36	****	1345	92	****	3990	****	
	SE/SW		0.0	0	****	0	0	****	0	0	****	0	****	
	South		0.0	0	****	0	0	****	0	0	****	0	****	
	Horz		0.0	0	****	0	0	****	0	0	****	0	****	
8. Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	
9. Net exposed walls and partitions	a	12D2	3.6	1.8	1958	7048	3540	815	2932	1473	1143	4116	2067	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	
10. Ceilings	a	16G0	1.5	1.4	3150	4678	4470	944	1402	1340	2206	3276	3130	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	
11. Floors (Note: room perimeter is displ for slab floors)	a	22A0	36.5	0.0	199	7266	0	78	2849	0	121	4417	0	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	
12. Infiltration Ventilation	a		64.7	15.6	333	21583	5207	127	8249	1990	206	13334	3217	
13. Subtotal to Loss exterior heating	s=6+8.+11+12				****	47701	****	****	18156	****	****	29545	****	
14. Less exterior heating distribution	****				****	0	****	****	0	****	****	0	****	
15. Total loss	****				****	0	****	****	0	****	****	0	****	
16. Int. gains	People @ 300				24	7200	4	1200	20	6000	****	6000	****	
17. Solar PS gain=7+8.+12+16	Appl. @ 1200				5	6000	0	0	5	6000	****	6000	****	
18. Less exterior cooling distribution	****				****	35073	****	8759	****	26314	****	0	****	
19. Total RSH	****				****	0	****	0	****	0	****	0	****	
20. At require	****				****	0	****	0	****	0	****	0	****	
21. Net gain	10 %				****	3507	10 %	876	10 %	2631	****	2631	****	
22. Total RSH	gain=(17+18)*PLF				1.00	38580	1.00	9635	1.00	28946	****	28946	****	
23. At require	(cfm)				****	1670	****	417	****	1253	****	1253	****	

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Right-J Worksheet
Master Suite end
Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

278 **Shirley Lane, Lake City, FL 32025 Phone: 386-752-5841**

7th Ed.		Master Suite end				Study				Living Rm				Master Bath			
Name of room		78.2 ft				10.0 ft				0.0 ft				35.5 ft			
Length of exposure		1.0 x 153.0 ft				1.0 x 153.0 ft				1.0 x 151.0 ft				1.0 x 235.3 ft			
Room dimensions		12.0 ft				12.0 ft				12.0 ft				12.0 ft			
Collings		Condit Option				heat/cool				heat/cool				heat/cool			
TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Ctg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Ctg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Ctg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Ctg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Ctg	
5	Gross Exposed walls and partitions	a 12D2	3.6	1.8	942	120	428	0	171	0	428	171	0	428	171	0	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Windows and glass doors Heating	a 3F0	21.4	**	127	2724	36	770	8	171	8	171	0	8	171	0	
	b		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0	
	c		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0	
	d		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0	
	e		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0	
	f		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0	
7	Windows and glass doors Cooling	North	12.6		74	926	36	425	8	150	8	150	0	8	150	0	
	NE/NW	26.8		18	465	0	0	0	0	0	0	0	0	0	0	0	
	E/W	37.8		36	1345	0	0	0	0	0	0	0	0	0	0	0	
	SE/SW	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	
	South	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	
	Horz	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Other doors	a	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Net Exposed walls and partitions	a 12D2	3.6	1.8	815	2932	1473	84	302	152	420	1512	759	420	1512	759	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
10	Collings	a 16G0	1.5	1.4	944	1402	1340	153	227	217	151	224	214	235	349	334	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Floors (Water floor perimeter is displ in slab floors)	a 22A0	36.5	0.0	78	2849	10	365	0	0	0	0	0	36	1294	0	
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Infiltration Ventilation	a	64.7	15.6	127	8249	1990	36	2331	562	0	0	0	8	518	125	
						0	0		0	0				0	0	0	
13	Subtotal Less exterior heating Less transmission Heating re Distribution	a=6+8...+11+12				18156	3994		224					3844			
						0	0		0					0			
						0	0		0					0			
						0	0		0					0			
14	Duct loss				5%	908	5%	200		5%	11		5%	192			
15	Total loss	13+14				19064		4194			235			4036			
16	Net gains	People @ Appl. @	300	4		1200	2	600	0		0		0	0		0	
			1200	0		0	0	0	0		0		0	0		0	
17	Subtotal Less exterior heating Less transmission Cooling re Distribution	gain=7+8...+12=16				8759		1956			214					1369	
						0		0			0			0		0	
						0		0			0			0		0	
						0		0			0			0		0	
18	Duct gain				10%	976	10%	196		10%	21		10%			137	
19	Total RSH	gain=(17+18)*PLF			1.00	9635	1.00	2152		1.00	236		1.00			1505	
20	Air required	(cfm)				417		92			5		10		88	65	

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Right-J Worksheet Master Suite end

Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

278 S. W. 1st Lane, Lake City, FL 32025 Phone: 386-752-5841

MANUAL J 7th Ed.														
1	Name of room				Bath 2			Master Suite						
2	Length of exposed wall				0.0 ft			32.7 ft						
3	Room dimensions				6.0 x 6.0 ft			1.0 x 369.0 ft						
4	Ceilings				12.0 ft heat/cool			12.0 ft heat/cool						
5	TYPE OF EXPOSURE	Condit. Option		HTM		Area (ft ²)		Load (Btuh)		Area (ft ²)		Load (Btuh)		Area
		CST NO.	Htg	Cig	Htg	Cig	Htg	Cig	Htg	Cig	Htg	Cig	Htg	
5	Gross Exposed walls and partitions	a	12D2	3.6	1.8	0	0	0	0	394	0	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	
6	Windows and glass doors Heating	a	3F0	21.4	**	0	0	0	0	83	1783	0	0	
		b		0.0	**	0	0	0	0	0	0	0	0	
		c		0.0	**	0	0	0	0	0	0	0	0	
		d		0.0	**	0	0	0	0	0	0	0	0	
		e		0.0	**	0	0	0	0	0	0	0	0	
		f		0.0	**	0	0	0	0	0	0	0	0	
7	Windows and glass doors Cooling	North		12.6	0	0	0	0	30	351	0	0	0	
		NE/NW		26.8	0	0	0	0	18	485	0	0	0	
		E/W		37.8	0	0	0	0	36	1345	0	0	0	
		SE/SW		0.0	0	0	0	0	0	0	0	0	0	
		South		0.0	0	0	0	0	0	0	0	0	0	
		Horz		0.0	0	0	0	0	0	0	0	0	0	
8	Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	
9	Net exposed walls and partitions	a	12D2	3.6	1.8	0	0	0	311	1118	561	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	
10	Ceilings	a	16G0	1.5	1.4	36	53	51	369	548	524	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	
11	Floors (interior and perimeter is displ for slab floors)	a	22A0	36.6	0.0	0	0	0	33	1191	0	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	
12	Infiltration Ventilation	a		64.7	15.6	0	0	0	83	5400	1303	0	0	
13	Subtotal for Less exterior heating	=6+8+11-12				53	0	0	10040	0	0	0	0	
14	Less exterior heating re distribution					0	0	0	0	0	0	0	0	
15	Duct loss	5%				3	0	0	502	0	0	0	0	
16	Total loss	13+14				56	0	0	10542	0	0	0	0	
17	Int. gains People @ Appl. @	300 1200				0	0	0	2	600	0	0	0	
18	Subtotal RS gain=7+8+12+16					51	0	0	5169	0	0	0	0	
19	Less exterior cooling re distribution					0	0	0	0	0	0	0	0	
20	Duct gain	10%				5	0	0	517	0	0	0	0	
21	Total RS gain=(17+18)*PLF	1.00				56	0	0	5685	0	0	0	0	
22	Air required (cfm)					1	2	2	231	246	0	0	0	

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Right-J Worksheet BR3, BR2, Game R

Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

386-752-5841

MANUAL J: 7th Ed.																	
	Name of room	BR3, BR2, Game R					WIC 1			WIC 2			Dining Rm				
	Length of exposed wall	121.2 ft					14.2 ft			0.0 ft			13.0 ft				
	Room dimensions	11.8 ft x 12.0 ft					1.0 x 51.1 ft			1.0 x 34.5 ft			15.0 x 14.0 ft				
4	Ceilings	12.0 ft					heat/cool			heat/cool			heat/cool				
	TYPE OF EXPOSURE	Condit.	Option														
		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Clg	Area (ft²)	Load (Btuh) Htg	Clg	Area (ft²)	Load (Btuh) Htg	Clg	Area (ft²)	Load (Btuh) Htg	Clg	
5	Gross Exposed walls and partitions	a	12D2	3.6	1.8	1349	****	****	170	****	****	0	****	****	156	****	****
		b		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		c		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		d		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		e		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		f		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
6	Windows glass door Heating	a	3F0	21.4	**	206	4403	****	12	257	****	0	0	****	54	1154	****
		b		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		c		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		d		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		e		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		f		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
7	Windows glass door Cooling	a	North	12.0	78	****	940	****	2	****	37	0	****	0	54	****	637
		b	NE/NW	26.6	36	****	969	****	0	****	0	0	****	0	0	****	0
		c	E/W	43.5	92	****	3990	****	10	****	640	0	****	0	0	****	0
		d	SE/SW	0.0	0	****	0	****	0	****	0	0	****	0	0	****	0
		e	South	0.0	0	****	0	****	0	****	0	0	****	0	0	****	0
		f	Horz	0.0	0	****	0	****	0	****	0	0	****	0	0	****	0
8	Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
9	Net exposed walls and partitions	a	12D2	3.6	1.8	1143	4115	2067	158	570	286	0	0	0	102	367	184
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
10	Ceilings	a	16G0	1.5	1.4	2206	3276	3130	51	76	72	35	51	49	210	312	298
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
11	Floors (Note: room perimeter is displ for slab floors)	a	22A0	36.5	0.0	121	4417	0	14	515	0	0	0	0	13	474	0
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
12	Mechanical Ventilation	a		64.7	15.6	206	13334	3217	12	777	187	0	0	0	54	3496	843
13	Subtotal for Less exterior Less transfer Heating re-	s=6+8..+11+12				29545	****	****	2196	****	****	51	****	****	5803	****	****
	Distribution					0	****	****	0	****	****	0	****	****	0	****	****
	Duct loss	5%				1477	****	****	110	****	****	3	****	****	290	****	****
14	Total loss	13+14				31022	****	****	2306	****	****	54	****	****	6093	****	****
16	Int. gains	People @	300	20	****	6000	0	****	0	****	0	0	****	0	4	****	1200
		Appl. @	1200	5	****	6000	0	****	0	****	0	0	****	0	0	****	0
17	Subtotal for Less exterior Less transfer Cooling re-	gain=7+8..+12+16				26314	****	****	1223	****	****	49	****	****	3163	****	****
	Distribution					0	****	****	0	****	****	0	****	****	0	****	****
	Duct gain	10%				2631	****	****	122	****	****	5	****	****	316	****	****
18	Total RSH	gain=(17+16)*PLF				1.00	28946	1.00	****	1346	1.00	****	54	1.00	****	3479	****
20	Air require	(cfm)				1253	1253	93	58	2	2	246	151				

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Right-J Worksheet
BR3, BR2, Game R
Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

274 S. W. Summit Lane, Lake City, FL 32025 Phone: 386-752-5841

MANUAL J: 7th Ed.																
1	2	3	4	Nook			Kitchen			Laundry			Bed Rm 3			
Name of room	Length of exposed wall	Room dimensions	Coilings	0.0 ft			0.0 ft			9.0 ft			19.0 ft			
				1.0 x 61.3 ft			1.0 x 247.0 ft			1.0 x 129.0 ft			1.0 x 204.0 ft			
				12.0 ft heat/cool			12.0 ft heat/cool			10.0 ft heat/cool			10.0 ft heat/cool			
TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg
5 Gross Exposed walls and partitions	a	12D2	3.6	1.8	0	0	0	0	0	0	90	0	0	190	0	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6 Windows & glass door heating	a	3F0	21.4	**	0	0	0	0	0	0	11	231	0	34	727	0
	b		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	**	0	0	0	0	0	0	0	0	0	0	0	0
7 Windows & glass door cooling	a	North	12.0		0	0	0	0	0	0	1	0	12	2	0	22
	b	NE/NW	26.8		0	0	0	0	0	0	0	0	0	0	0	0
	c	E/W	43.5		0	0	0	0	0	0	10	0	647	32	0	1215
	d	SE/SW	0.0		0	0	0	0	0	0	0	0	0	0	0	0
	e	South	0.0		0	0	0	0	0	0	0	0	0	0	0	0
	f	Horz	0.0		0	0	0	0	0	0	0	0	0	0	0	0
8 Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
9 Net exposed walls and partitions	a	12D2	3.6	1.8	0	0	0	0	0	0	79	285	143	156	562	282
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
10 Ceilings	a	16G0	1.5	1.4	62	92	88	247	367	350	129	192	183	204	303	289
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
11 Floors (Note: roof perimeter is displ for slab floors)	a	22A0	36.5	0.0	0	0	0	0	0	0	9	328	0	19	693	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
12 Infiltration Ventilation	a		64.7	15.6	0	0	0	0	0	0	11	699	169	34	2201	531
13 Subtotal load = 6+8+11+12					92	0	0	367	0	0	1735	0	0	4485	0	0
					0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0
14 Duct loss				5%	5	0	5%	18	0	87	0	5%	224	0	0	0
15 Total loss					96	0		385	0	1821	0		4709	0	0	0
16 Int. gains	People @	300	0	0	0	0	1	300	0	0	0	0	2	600	0	0
	Appl. @	1200	0	0	0	0	3	3600	2	2400	0	0	0	0	0	0
17 Subtotal RS gain = 7+8+12+16					88	0	0	4250	0	3554	0	0	2939	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0
18 Duct gain				10%	9	0	10%	425	0	355	0	10%	294	0	0	0
19 Total RSH	gain=(17+18)*PLF			1.00	97	0	1.00	4676	0	3910	0	1.00	3233	0	0	0
20 Air require (cfm)					4	0		16	202	74	169		190	140	0	0

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Right-J Worksheet BR3, BR2, Game R

Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

278 S.W. Sumner Lane, Lake City, FL 32025 Phone 385 752 5841

MANUAL J 7th Ed.																	
1	Name of room	2	Length of exposed wall	Bath 3			Bed Rm 2			Game Rm			Family Center				
3	Room dimensions			7.0 ft			12.0 ft			33.0 ft			0.0 ft				
4	Ceilings			1.0 x 103.0 ft			1.0 x 196.0 ft			1.0 x 307.5 ft			1.0 x 482.2 ft				
				10.0 ft heat/cool			10.0 ft heat/cool			12.0 ft heat/cool			14.0 ft heat/cool				
	TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg			
5	Gross Exposed walls and partitions	a	12D2	3.6	1.8	70	252	127	120	437	217	397	1172	589	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
6	Windows and glass doors Heating	a	3F0	21.4	1.8	0	0	0	24	513	257	71	1521	761	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
7	Windows and glass doors Cooling	North			12.0	0	0	0	1	15	7	18	216	108	0	0	
		NE/NW			26.8	0	0	0	0	0	0	36	969	485	0	0	
		E/W			43.5	0	0	0	23	858	429	17	631	316	0	0	
		SE/SW			0.0	0	0	0	0	0	0	0	0	0	0	0	
		South			0.0	0	0	0	0	0	0	0	0	0	0	0	
		Horz			0.0	0	0	0	0	0	0	0	0	0	0	0	
8	Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
9	Net exposed walls and partitions	a	12D2	3.6	1.8	70	252	127	96	346	174	326	1172	589	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
10	Ceilings	a	16G0	1.5	1.4	103	153	146	195	291	278	398	457	436	482	716	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
11	Floors (Note: room perimeter is displ. for slab floors)	a	22A0	36.5	0.0	7	255	0	12	437	0	33	1203	0	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
12	Infiltration Ventilation	a		64.7	15.6	0	0	0	24	1554	375	71	4607	1112	0	0	
13	Subtotal for Less external heating	s=6+8...+11+12				660	0	0	3141	0	0	8950	0	0	716	0	
14	Less transfer Heating re distribution					0	0	0	0	0	0	0	0	0	0	0	
15	Total loss	13+14				660	0	0	3141	0	0	8950	0	0	716	0	
16	Int. gains	People @ 300				0	0	0	2	600	4	1200	6	1800	0	0	
		Appl. @ 1200				0	0	0	0	0	0	0	0	0	0	0	
17	Subtotal RSH gain=7+8...+12+16					273	0	0	2300	0	0	5153	0	2484	0	0	
18	Less external cooling					0	0	0	0	0	0	0	0	0	0	0	
19	Less transfer Cooling re distribution					0	0	0	0	0	0	0	0	0	0	0	
20	Total RSH gain=(17-18)*PLF					273	0	0	2300	0	0	5153	0	2484	0	0	
21	Air required (cfm)					28	13	133	110	380	245	30	118	118	30	118	118

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Right-J Worksheet BR3, BR2, Game R

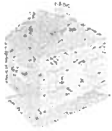
Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

278 S. W. Summit Lane, Lake City, FL 32025 Phone 386-752-5841

MANUAL J: 7th Ed.																
1	2	3	4	Bath 4				H Office				Foyer				
Name of room	Length of exposed wall	Room dimensions	Room divisions	6.0 ft				0.0 ft				8.0 ft				
5	6	7	8	11.0 x 6.0 ft				1.0 x 72.0 ft				1.0 x 42.0 ft				
9	10	11	12	10.0 ft heat/cool				12.0 ft heat/cool				12.0 ft heat/cool				
TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area	Htg	Clg
5 Gross Exposed walls and partitions	a	12D2	3.6	1.8	60	****	****	0	****	****	96	****	****		****	****
	b		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	c		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	d		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	e		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	f		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
6 Windows glass door Heating	a	3F0	21.4	**	0	0	****	0	0	****	0	0	****			****
	b		0.0	**	0	0	****	0	0	****	0	0	****			****
	c		0.0	**	0	0	****	0	0	****	0	0	****			****
	d		0.0	**	0	0	****	0	0	****	0	0	****			****
	e		0.0	**	0	0	****	0	0	****	0	0	****			****
	f		0.0	**	0	0	****	0	0	****	0	0	****			****
7 Windows glass door Cooling	a	North	12.0		0	****	0	0	****	0	0	****	0		****	
	b	NE/NW	26.8		0	****	0	0	****	0	0	****	0		****	
	c	E/W	43.5		0	****	0	0	****	0	0	****	0		****	
	d	SE/SW	0.0		0	****	0	0	****	0	0	****	0		****	
	e	South	0.0		0	****	0	0	****	0	0	****	0		****	
	f	Horz	0.0		0	****	0	0	****	0	0	****	0		****	
8 Other door	a		0.0	0.0	0	0	0	0	0	0	0	0	0			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
9 Net exposed walls and partitions	a	12D2	3.6	1.8	60	216	108	0	0	0	96	346	174			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
	d		0.0	0.0	0	0	0	0	0	0	0	0	0			
	e		0.0	0.0	0	0	0	0	0	0	0	0	0			
	f		0.0	0.0	0	0	0	0	0	0	0	0	0			
10 Ceilings	a	16G0	1.5	1.4	66	98	94	72	107	102	42	62	60			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
	d		0.0	0.0	0	0	0	0	0	0	0	0	0			
	e		0.0	0.0	0	0	0	0	0	0	0	0	0			
	f		0.0	0.0	0	0	0	0	0	0	0	0	0			
11 Floors (Note: non perimeter is displ. for slab floors)	a	22A0	36.5	0.0	6	219	0	0	0	0	8	292	0			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
	d		0.0	0.0	0	0	0	0	0	0	0	0	0			
	e		0.0	0.0	0	0	0	0	0	0	0	0	0			
	f		0.0	0.0	0	0	0	0	0	0	0	0	0			
12 Infiltration Ventilation	a		64.7	15.6	0	0	0	0	0	0	0	0	0			
13 Subtotal Losses	s=6+8..+11+12				****	533	****	****	107	****	****	700	****	****	****	****
	Less external heating				****	0	****	****	0	****	****	0	****	****	****	****
	Less transfer Heating re distribution				****	0	****	****	0	****	****	0	****	****	****	****
	duct loss				****	5%	27	****	5%	5	****	5%	35	****	****	****
14 Total loss	13+14				****	559	****	****	112	****	****	735	****	****	****	****
16 Int. gains	People @	300		0	****	0		1	****	300		0	****		****	
	Appl. @	1200		0	****	0		0	****	0		0	****		****	
17 Subtotal RS gain=7+8..+12+16	Less external heating				****	****	202	****	****	402		****	****	233	****	****
	Less transfer Heating re distribution				****	****	0	****	****	0		****	****	0	****	****
	duct gain				****	****	0	****	****	0		****	****	0	****	****
	Total RS gain=(17+18)*PLF				10%	****	20	10%	****	40	10%	****	23	10%	****	****
19 Total RS gain (cfm)				1.00	****	222	1.00	****	442	1.00	****	256	1.00	****	****	****
20 Air require (cfm)						23	10		5		19	30	11			

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Window Data

Job: Gray
Date: 9-27-05
By: AW

Country Comfort Heating & A. C.

275 S. W. S. Lane, Lake City, FL 32025 Phone: 386-752-5641

W N D W	S K Y	O R I	G L A Z	L O W E	S T R M	S H A D	N G L Z	I N C L	S H C O	O V R X	O V R Y	W H G T	C H T M	W N A R	S H A R
Study															
3F0	n	s	c	y	n	d	2	90.0	1.0	1.6	1.0	6.0	19.8	36.0	36.0
Master Bath															
3F0	n	s	c	y	n	n	2	90.0	1.0	1.6	1.0	2.0	31.8	8.0	8.0
Master Suite															
3F0	n	n	c	y	n	d	2	90.0	1.0	1.6	1.0	7.0	11.8	28.0	0.0
3F0	n	nw	c	y	n	d	2	90.0	1.0	1.6	1.0	7.0	26.8	18.1	0.0
3F0	n	w	c	y	n	d	2	90.0	1.0	1.6	1.0	7.0	37.8	37.3	1.7
WIC 1															
3F0	n	w	c	y	n	n	2	90.0	1.0	1.6	1.0	2.0	63.8	12.0	2.0
Dining Rm															
3F0	n	s	c	y	n	d	2	90.0	1.0	1.6	1.0	6.0	19.8	54.0	54.0
Laundry															
3F0	n	e	c	y	n	n	2	90.0	1.0	1.6	1.0	5.4	63.8	10.8	0.7
Bed Rm 3															
3F0	n	e	c	y	n	d	2	90.0	1.0	1.6	1.0	6.0	37.8	34.0	1.9
Bed Rm 2															
3F0	n	e	c	y	n	d	2	90.0	1.0	1.6	1.0	6.0	37.8	24.0	1.3
Game Rm															
3F0	n	e	c	y	n	d	2	90.0	1.0	1.6	1.0	7.0	37.8	17.5	0.8
3F0	n	ne	c	y	n	d	2	90.0	1.0	1.6	1.0	7.0	26.8	36.2	0.0
3F0	n	n	c	y	n	d	2	90.0	1.0	1.6	1.0	7.0	11.8	17.5	0.0





Calculation Procedures A, B, C, D
Entire House
Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-06
By: AW

278 S. W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

Procedure A - Winter Infiltration HTM Calculation*

1. Winter infiltration AVF									
0.70	ach	x	37372	ft ²	x	0.0167	=	436	cfm
						Isolated zones =		0	cfm
						Total =		436	cfm
2. Winter infiltration load									
1.1	x	436	cfm	x	45	°F	Winter TD =	21583	Btuh
3. Winter infiltration HTM									
21583	Btuh	/	333	ft ²		Total window =		64.7	Btuh/ft ²
						and door area			

Procedure B - Summer Infiltration HTM Calculation

1. Summer infiltration AVF									
0.40	ach	x	37372	ft ²	x	0.0167	=	249	cfm
						Isolated zones =		0	cfm
						Total =		249	cfm
2. Summer infiltration load									
1.1	x	249	cfm	x	19	°F	Summer TD =	5207	Btuh
3. Summer infiltration HTM									
5207	Btuh	/	333	ft ²		Total window =		15.6	Btuh/ft ²
						and door area			

Procedure C - Latent Infiltration Gain

0.68	x	30	gr/lb	moist.diff.	x	249	cfm	=	5065	Btuh
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Procedure D - Equipment Sizing Loads

1. Sensible sizing load															
Sensible ventilation load															
1.1	x	0	cfm	vent.	x	19	°F	Summer TD	=	0	Btuh				
Sensible load for structure (Line 19)										+	38580	Btuh			
Vent + structure + other equip loads										=	38580	Btuh			
Rating and temperature swing multiplier										x	1.02				
Equipment sizing load - sensible										=	39352	Btuh			
2. Latent sizing load															
Latent ventilation load															
0.68	x	0	cfm	vent.	x	30	gr/lb	moist.diff.	=	0	Btuh				
Internal loads = 230 Btuh										x	24	people	+	5520	Btuh
Infiltration load from Procedure C										+	5065	Btuh			
Equipment sizing load - latent										=	10585	Btuh			

*Construction Quality is:

a

No. of Fireplaces is:

0

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



Calculation Procedures A, B, C, D
Master Suite end
Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

278 S.W. Summers Lane, Lake City, FL 32025 Phone: 386-752-5841

Procedure A - Winter Infiltration HTM Calculation*

Winter infiltration AVF							
0.88	ach	x	11331	ft ³	x	0.0167	= 167 cfm
Winter infiltration load							
1.1	x	167	cfm	x	45 °F	Winter TD =	8249 Btuh
Winter infiltration HTM							
8249	Btuh	/	127	ft ²	Total window =		64.7 Btuh/ft ²
					and door area		

Procedure B - Summer Infiltration HTM Calculation

Summer infiltration AVF							
0.50	ach	x	11331	ft ³	x	0.0167	= 95 cfm
Summer infiltration load							
1.1	x	95	cfm	x	19 °F	Summer TD =	1990 Btuh
Summer infiltration HTM							
1990	Btuh	/	127	ft ²	Total window =		15.6 Btuh/ft ²
					and door area		

Procedure C - Latent Infiltration Gain

0.68	x	30	gr/lb	moist.diff.	x	95	cfm = 1936 Btuh
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Procedure D - Equipment Sizing Loads

1. Sensible sizing load							
Sensible ventilation load							
1.1	x	0	cfm vent.	x	19 °F	Summer TD	= 0 Btuh
Sensible load for structure (Line 19)							+ 9635 Btuh
Vent + structure + other equip loads							= 9635 Btuh
Rating and temperature swing multiplier							x 1.02
Equipment sizing load - sensible							= 9827 Btuh
2. Latent sizing load							
Latent ventilation load							
0.68	x	0	cfm vent.	x	30	gr/lb moist.diff.	= 0 Btuh
Internal loads =							+ 920 Btuh
230 Btuh				x	4	people	+ 1936 Btuh
Infiltration load from Procedure C							= 2856 Btuh
Equipment sizing load - latent							

*Construction Quality is: a

No. of Fireplaces is: 0

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



Calculation Procedures A, B, C, D
BR3, BR2, Game R
Country Comfort Heating & A. C.

Job: Gray
Date: 9-27-05
By: AW

270 S. W. Suncoast Lane, Lake City, FL 32025 Phone: 386-752-5841

Procedure A - Winter Infiltration HTM Calculation*

1	Winter infiltration AVF								
	0.62	ach	x	26041	ft ³	x	0.0167	=	269 cfm
2	Winter infiltration load								
	1.1	x	269	cfm	x	45	°F	Winter TD =	13334 Btuh
3	Winter infiltration HTM								
	13334	Btuh	/	206	ft ²	Total window =			64.7 Btuh/ft ²
						and door area			

Procedure B - Summer Infiltration HTM Calculation

1	Summer infiltration AVF								
	0.35	ach	x	26041	ft ³	x	0.0167	=	154 cfm
2	Summer infiltration load								
	1.1	x	154	cfm	x	19	°F	Summer TD =	3217 Btuh
3	Summer infiltration HTM								
	3217	Btuh	/	206	ft ²	Total window =			15.6 Btuh/ft ²
						and door area			

Procedure C - Latent Infiltration Gain

0.68	x	30	gr/lb	moist.diff.	x	154	cfm	=	3129 Btuh
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Procedure D - Equipment Sizing Loads

Sensible sizing load

Sensible ventilation load									
1.1	x	0	cfm	vent.	x	19	°F	Summer TD	= 0 Btuh
Sensible load for structure (Line 19)									+ 28946 Btuh
Vent + structure + other equip loads									= 28946 Btuh
Rating and temperature swing multiplier									x 1.02
Equipment sizing load - sensible									= 29525 Btuh

Latent sizing load

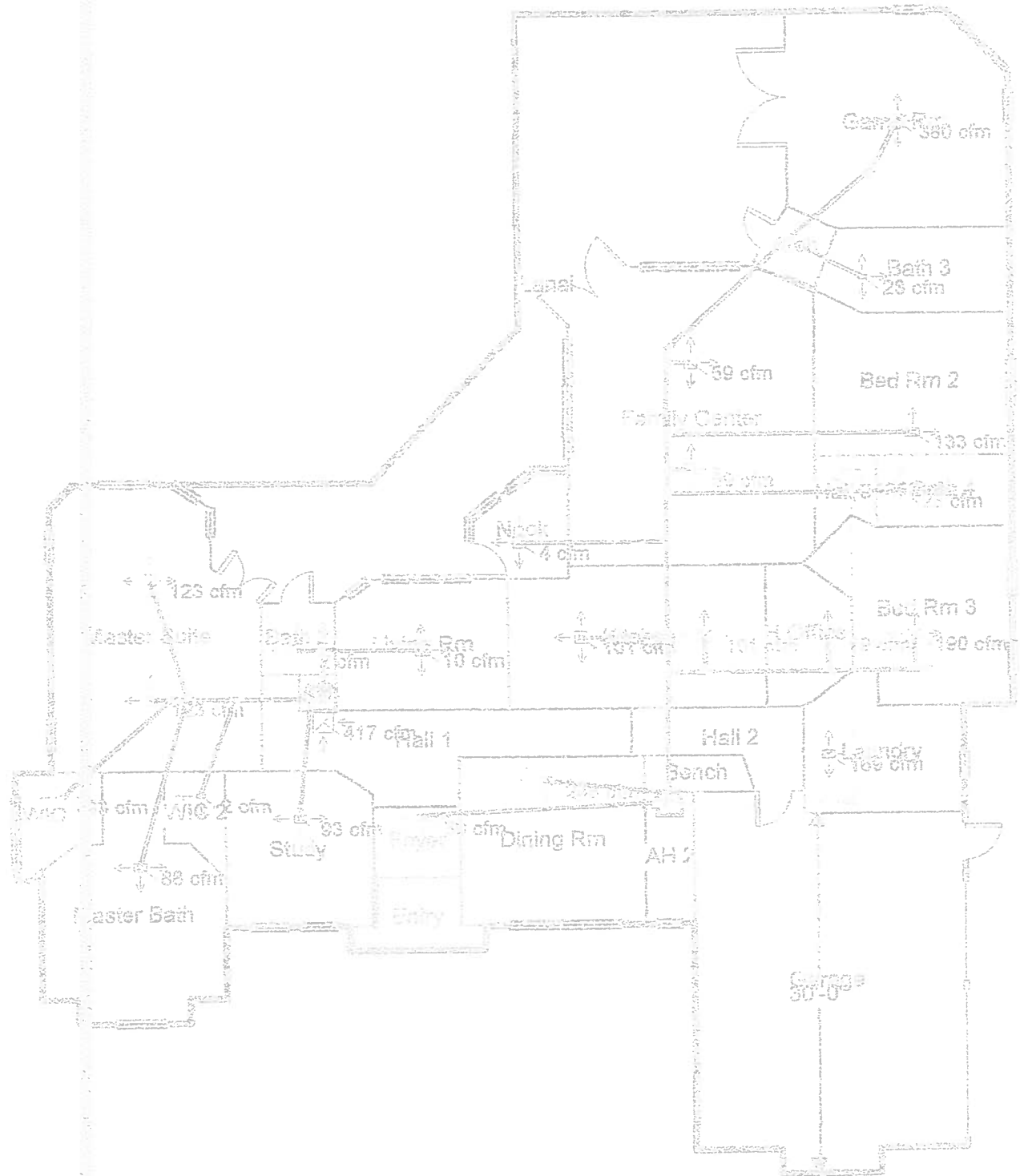
Latent ventilation load									
0.68	x	0	cfm	vent.	x	30	gr/lb	moist.diff.	= 0 Btuh
Internal loads =									+ 4600 Btuh
Infiltration load from Procedure C									+ 3129 Btuh
Equipment sizing load - latent									= 7729 Btuh

Construction Quality is: a

No. of Fireplaces is: 0

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

Total Home



Job #: Gray
 Performed by AW for:
 Kevin Gray
 Lake City, FL

Country Comfort Heating & A. C.
 278 S. W. Summers Lane
 Lake City, FL 32025
 Phone: 386-752-5841

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 Right-Suite Residential
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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	Johanna Entry	Steel Exterior Door	3226447A-001
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Capital	Oriel - Aluminum Windows	01-42963-01
2. Horizontal Slider	Capital	Aluminum	01-41134-01
3. Casement	Capital	Aluminum - Flange	01-48643-01
4. Double Hung	Cap-Inight	Cellular Windows	01-43343-01
5. Fixed	Cap-Inight	Cellular Windows	01-46201-01
6. Awning D.H. - Triple	Cap-Inight	Cellular Windows	01-45749-01
7. Pass-through - Pk.	Cap-Inight	Cellular Windows	53437-01-122-47
8. Double Hung Horiz Slide	Capital	Aluminum - Pk	01-41134-01
9. Double Hung Horiz Slide	Capital	Aluminum - Fin (x2)	01-47320-01
10. Wind Breaker	Capital	Aluminum - Fin (x2)	01-46643-002
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	Bo:ze	Hardie-Fiber / Weyer. - Camplank F1889.2	
2. Soffits			
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	EIK	Arch Shingle	Asm D3462
2. Underlayments	Asm D3462	20" Roofing Felt	FL-1814
3. Roofing Fasteners	Seace		Rpm 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			

25512

25409 +
Massie
955-9700

Forest View

11/5/07 9:40 AM

Per Dale - S/D platted
prior to request of CO
Therefore development
agreement is null & void

GLENWOOD CORN CO. INC.

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 20-3S-16-02203-004

Building permit No. 000025512

Use Classification SFD/UTILITY

Fire: 70.62

Permit Holder GLENWOOD KING

Waste: 184.25

Owner of Building KEVIN & HEATHER GRAY

Total: 254.87

Location: 325 NW HIGH-POINT DRIVE, LAKE CITY, FL

Date: 11/05/2007

Harry D. Iha

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)