

Project Name: Chad & Joni Stewart Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: columbia(Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms 5 5. Is this a worst case? No 6. Conditioned floor area above grade (ft ²) 3326 Conditioned floor area below grade (ft ²) 0 7. Windows(469.5 sqft.) Description Area a. U-Factor: Dbl, U=0.26 469.50 ft ² SHGC: SHGC=0.20 b. U-Factor: N/A ft ² SHGC: c. U-Factor: N/A ft ² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.200 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft ² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 2886.00 ft ² b. Floor over Garage R= 19.0 440.00 ft ² c. N/A R= ft ²	10. Wall Types(3216.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2970.70 ft ² b. Frame - Wood, Adjacent R=13.0 245.33 ft ² c. N/A d. N/A 11. Ceiling Types(3326.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=30.0 3326.00 ft ² b. N/A c. N/A 12. Roof(Comp. Shingles, Unvent) Deck R=30.0 4330 ft ² 13. Ducts, location & insulation level R ft ² a. Sup: Main, Ret: Main, AH: Main 6 333 b. Sup: Main, Ret: Main, AH: Main 6 176 c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.0 SEER2:16.00 b. Central Unit 24.0 SEER2:16.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.0 HSPF2:7.80 b. Electric Heat Pump 24.0 HSPF2:7.80 16. Hot Water Systems a. PropaneTankless Cap: 1 gallons EF: 0.590 b. Conservation features None CF, Pstat 17. Credits
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Glass/Floor Area: 0.141	Total Proposed Modified Loads: 64.79	PASS
	Total Baseline Loads: 86.49	
NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.		

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: 2-8-24 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: _____
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INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:Chad & Joni Stewart

Building Type:User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type:Detached

New/Existing:New (From Plans)

Year Construct:2023

Comment:

Bedrooms:5

Conditioned Area:3326

Total Stories:1

Worst Case:No

Rotate Angle:0

Cross Ventilation:

Whole House Fan:

Terrain:Rural

Shielding:Moderate/Rural

Address type:Street Address

Lot #:---

Block/SubDivision:---

PlatBook:---

Street:

County:columbia

City, State, Zip: , FL,

CLIMATE

✓

Design Location

Tmy Site

Design Temp

97.5%2.5%

Int Design Temp

WinterSummer

Heating Degree Days

Design Moisture

Daily temp Range

FL, Gainesville

FL_GAINESVILLE_REGIONA

32

92

70

75

1305.5

51

Medium

BLOCKS

✓

Number

Name

Area

Volume

1

Block1

2886

25974 cu ft

2

Block2

440

3520 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

1

Main

2886

25974

Yes

6

4

Yes

Yes

Yes

2

bonus Room

440

3520

No

2

1

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 3326 sq.ft.)

✓

#

Floor Type

Space

Exposed Perim(ft)

Area

R-Value Perim.

U-Factor Joist

Slab Insul. Vert/Horiz

Tile

Wood

Carpet

1

Slab-On-Grade Edge Ins

Main

289

2886 sqft

0

0.563

2 (ft)/0 (ft)

0.20

0.60

0.20

2

Floor over Garage

bonus Room

440 sqft

19

0.050

0.20

0.00

0.80

ROOF

✓

#

Type

Materials

Roof Area

Gable Area

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

1

Gable or shed

Composition shingles

4330 ft²

1386 ft²

Dark

N

0.92

No

0.9

No

30

39.81

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

No attic

Unvented

0

3326 ft²

N

N

INPUT SUMMARY CHECKLIST REPORT

CEILING														(Total Exposed Area = 3326 sq.ft.)			
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type									
___ 1	Single assembly, no airspace(Unvented)	Main	30.0	Blown	2886.0ft²	0.032	0.11	Wood									
___ 2	Single assembly, no airspace(Unvented)	bonus Room	30.0	Blown	440.0ft²	0.032	0.11	Wood									

WALLS														(Total Exposed Area = 3216 sq.ft.)			
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Frame - Wood	Main	13.0	30.0	6	9.0	0	274.5	0.094		0.23	0.75	0 %		
___ 2	W	Exterior	Frame - Wood	Main	13.0	2.0	6	12.0	0	30.0	0.094		0.23	0.75	0 %		
___ 3	N	Exterior	Frame - Wood	Main	13.0	44.0	0	12.0	0	528.0	0.094		0.23	0.75	0 %		
___ 4	E	Exterior	Frame - Wood	Main	13.0	2.0	6	12.0	0	30.0	0.094		0.23	0.75	0 %		
___ 5	N	Exterior	Frame - Wood	Main	13.0	18.0	2	9.0	0	163.5	0.094		0.23	0.75	0 %		
___ 6	E	Exterior	Frame - Wood	Main	13.0	33.0	2	9.0	0	298.5	0.094		0.23	0.75	0 %		
___ 7	S	Exterior	Frame - Wood	Main	13.0	4.0	0	9.0	0	36.0	0.094		0.23	0.75	0 %		
___ 8	E	Exterior	Frame - Wood	Main	13.0	7.0	4	9.0	0	66.0	0.094		0.23	0.75	0 %		
___ 9	S	Exterior	Frame - Wood	Main	13.0	14.0	6	9.0	0	130.5	0.094		0.23	0.75	0 %		
___ 10	W	Exterior	Frame - Wood	Main	13.0	13.0	2	9.0	0	118.5	0.094		0.23	0.75	0 %		
___ 11	S	Exterior	Frame - Wood	Main	13.0	23.0	0	12.0	0	276.0	0.094		0.23	0.75	0 %		
___ 12	E	Exterior	Frame - Wood	Main	13.0	9.0	0	9.0	0	81.0	0.094		0.23	0.75	0 %		
___ 13	S	Exterior	Frame - Wood	Main	13.0	14.0	0	9.0	0	126.0	0.094		0.23	0.75	0 %		
___ 14	W	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.094		0.23	0.75	0 %		
___ 15	S	Exterior	Frame - Wood	Main	13.0	13.0	6	9.0	0	121.5	0.094		0.23	0.75	0 %		
___ 16	N	Garage	Frame - Wood	Main	13.0	30.0	8	8.0	0	245.3	0.094		0.23	0.75	0 %		
___ 17	W	Exterior	Frame - Wood	Main	13.0	24.0	4	9.0	0	219.0	0.094		0.23	0.75	0 %		
___ 18	N	Exterior	Frame - Wood	bonus Room	13.0	4.0	0	8.0	0	32.0	0.094		0.23	0.75	0 %		
___ 19	E	Exterior	Frame - Wood	bonus Room	13.0	11.0	0	8.0	0	88.0	0.094		0.23	0.75	0 %		
___ 20	S	Exterior	Frame - Wood	bonus Room	13.0	4.0	0	8.0	0	32.0	0.094		0.23	0.75	0 %		
___ 21	S	Exterior	Frame - Wood	bonus Room	13.0	15.0	4	8.0	0	122.7	0.094		0.23	0.75	0 %		
___ 22	S	Exterior	Frame - Wood	bonus Room	13.0	4.0	0	8.0	0	32.0	0.094		0.23	0.75	0 %		
___ 23	W	Exterior	Frame - Wood	bonus Room	13.0	11.0	0	8.0	0	88.0	0.094		0.23	0.75	0 %		
___ 24	N	Exterior	Frame - Wood	bonus Room	13.0	4.0	0	8.0	0	32.0	0.094		0.23	0.75	0 %		

DOORS														(Total Exposed Area = 148 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area						
___ 1	N	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²						
___ 2	S	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²						
___ 3	S	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²						
___ 4	N	Garage	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²						

WINDOWS														(Total Exposed Area = 470 sq.ft.)			
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	60.0	4	3.00	5.00	1.5	2.3	None	None
___ 2	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.0	2	2.00	4.00	1.5	2.3	None	None
___ 3	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	108.0	6	3.00	6.00	1.5	2.3	None	None
___ 4	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	4.00	2.00	1.5	2.3	None	None
___ 5	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	6	3.00	2.00	1.5	2.3	None	None
___ 6	N	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	2.3	None	None
___ 7	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None
___ 8	E	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.0	1	4.00	4.00	1.5	2.3	None	None
___ 9	S	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None

INPUT SUMMARY CHECKLIST REPORT

WINDOWS(Continued)

___ 10S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	2	5.00	2.00	1.5	2.3	None	None
___ 11S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	5.0	1	2.50	2.00	1.5	2.3	None	None
___ 12S	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	2.50	6.00	1.5	2.3	None	None
___ 13S	13	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None
___ 14S	15	Vinyl	Low-E Double	Y	0.26	0.20	N	N	22.5	2	2.50	4.50	1.5	2.3	None	None
___ 15W	17	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	2.3	None	None
___ 16E	19	Vinyl	Low-E Double	Y	0.26	0.20	N	N	10.0	1	5.00	2.00	1.5	2.3	None	None
___ 17S	21	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None
___ 18W	23	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.0	1	2.00	2.00	1.5	2.3	None	None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00027	2320	127.29	238.98	0.0964	4.7	All	29494 cu ft

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	615 ft²	615 ft²	69 ft	9 ft	13

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	bonus Room

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current				Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.80	36.0	0.00	0.00	0.00	0.00	sys#1	1
___ 2	Electric Heat Pump	None/Single		HSPF2: 7.80	24.0	0.00	0.00	0.00	0.00	sys#2	2

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:16.0	36.0	1080	0.85	sys#1	1
___ 2	Central Unit	None/Single		SEER2:16.0	24.0	720	0.85	sys#2	2

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Propane	Tankless	Exterior	0.59 (0.59)	1.00 gal	80 gal	120 deg	Standard	None	99
Recirculation System		Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

INPUT SUMMARY CHECKLIST REPORT

DUCTS														
☒ Duct #	-----Supply-----			-----Return-----										
	Location	R-Value	Area	Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___ 1 Main		6.0	333 ft²	Main	6.0	84 ft²	Prop. Leak Free	Main	---	---	0.030	0.50	1	1
___ 2 Main		6.0	176 ft²	Main	6.0	42 ft²	Prop. Leak Free	Main	---	---	0.030	0.50	2	2

TEMPERATURES														
Programable Thermostat: Y						Ceiling Fans: N								
Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec		
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec		
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ Dec		

☒ Thermostat Schedule: HERS 2006 Reference	Hours													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80	
	PM	80	80	80	80	78	78	78	78	78	78	78	78	
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	80	80	80	80	
	PM	80	80	80	80	78	78	78	78	78	78	78	78	
___ Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	
___ Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	