# NEW 3/2/1 CARPORT MONO/ HIP/ RIGHT SFR

# HABITAT FOR HUMANITY

**HOUSE: 241** PID: 9033-1076-04

2024-04-2662

STRUCTURAL APPROVAL BY REX D. BROWN MARION COUNTY PLANS EXAMINE ( SEAL VERIFIED BY OTHERS )

DN: c=US, o=Florida,

dnQualifier=A01410C0000017DA 55DE3550000A392, cn=David P

Date: 2024.04.08 07:54:02 -04'00'

DRAWING ISSUE PERMIT 01 APRIL 2024

GENERAL CONTRACTOR

David

King

# MARION COUNTY, FLORIDA

## **BUILDING CODES**

### FACILITY DESCRIPTION

TYPE OF ROOF -

ROOF MATERIAL -

FIBERGLASS SHINGLES

SINGLE FAMILY RESIDENTIAL

#### **BUILDING AND SITE INFORMATION**

ZONING -LAND USE -

BUILDING HEIGHT

ACTUAL HEIGHT -12'-4" (1 STORY)

BUILDING AREA TABULATION

TOTAL BUILDING AREA - 1576 SQ.FT.

SOIL BEARING CAPACITY

MINIMUM CODE REQUIREMENTS - 2000 LB PSF.

MINIMUM COMPACTION - 90% MOD. DRY DENSITY

TYPE OF CONSTRUCTION

TYPE V-B UNSPRINKLERED

OCCUPANCY CLASSIFICATION & LOAD

CLASSIFICATION -RESIDENTIAL

IMPORTANCE FACTOR - (1)

100

DESIGN CF	RITERIA		
DESIGN WIND SPE	140 MPH		
RISK CATEGORY		II	
EXPOSURE CATEG	ORY	С	
INTERNAL WIND C	COEFFICIENT	+0.18 & -0.18 DRS AND WINDOWS LOWING PRESSURES:	
EFFECTIVE AREA	ALLOWABLE F	PRESSSURE (PSF)	
SQ. FT. OUT		IN	
10	24.9	-33.2	
20	23.8	-31.0	
50	22.4	-28.1	

#### ATTIC VENTILATION REQUIREMENTS REQ'D: 1,576 SF / 300 = 5.26 SF

21.3

-25.9

EAVE: 5.26/2 =2.63 SF RIDGEVENT: 7.78/2 =2.63 SF EAVE: 172 LF X 9/144/LF = 10.75 SFRIDGEVENT: 24 LF  $\times$  .167" = 4.01 SF

NOTE: RIDGE VENTING IS TO BE PROVIDED IN ADDITION TO SOFFIT VENTILATION

## STRUCTURAL LOADS

COLLATERAL LOAD -2 P.S.F. FLOOR LIVE LOADS - 40 P.S.F ULTIMATE WIND SPEED - 140 M.P.H. NOMINAL WIND SPEED - 108 M.P.H.

## FIRE RESISTANCE OF COMPONENTS

BASIC VELOCITY P.S.F. - 38.47 P.S.F. @ 33-0" MEAN ROOF HT.

INTERIOR BEARING WALLS - N/A EXTERIOR BEARING WALLS - N/A COLUMNS AND BEAMS - N/A ROOF/CEILING ASSEMBLY - N/A

## PLUMBING REQUIREMENTS

RESIDENTIAL -REQUIRED PROVIDED WASHER CONNECTION -LAVATORY -

#### EGRESS REQUIREMENTS

REQUIRED PROVIDED MINIMUM NUMBER OF EXITS -WIDTH OF EGRESS DOOR-36" HINGED ENTRANCE DOOR FIRST FLOOR SLEEPING AREAS - 5 SQ.FT. OF GLASS

IN ROOMS W/O DOORS

TO THE EXTERIOR

#### **EXTERIOR DOOR MANUFACTURER:**

SEE ATTACHED DATA

**WINDOW MANUFACTURER:** 

SEE ATTACHED DATA

ROOF SHINGLE MANUFACTURER:

SEE ATTACHED DATA

## **DESIGN CODE REFERENCE**

BUILDING CODE - FLORIDA RESIDENTIAL BUILDING CODE - 8th EDITION (2023) ELECTRICAL CODE - NATIONAL ELECTRIC CODE - 2021 EDITION PLUMBING CODE - FLORIDA PLUMBING CODE - 8th EDITION (2023) MECHANICAL CODE - FLORIDA MECHANICAL CODE - 8th EDITION (2023) FIRE CODE - FLORIDA FIRE PREVENTION CODE - 8th EDITION (2023) GAS CODE - FLORIDA FUEL GAS CODE - 8th EDITION (2023) NFPA 58 - LIQUEFIED PETROLIUM GAS - (2020)

NFPA 72 - NATIONAL FIRE ALARM CODE (2019) NFPA 72E - AUTOMATIC DETECTION DEVICES (LATEST EDITION)

NFPA 101 - LIFE SAFETY CODE (2021)

NFPA 80 - FIRE DOORS AND WINDOWS (2019) OSHA

ACI-318 - BUILDING REQUIREMENTS FOR REINFORCED CONCRETE (2019) AISC CODE OF STANDARD PRACTICE (MANUAL OF STEEL CONSTRUCTION, 9th EDITION) S-310 SPECIFICATIONS FOR THE DESIGN FABRICATION AND ERECTION OF STEEL

# **CONSTRUCTION NOTES**

## **GENERAL**

GO1 - THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR START OF CONSTRUCTION. GO2 - THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, ALL WORKERS AND ALL OTHER PEOPLE PRESENT DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.

GO3 — THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORS, EMBEDS, SUPPORTS, OR ANY OTHER ITEMS WHICH MAY EFFECT STRUCTURAL DRAWINGS.

## **FOUNDATION**

FO1 - ALL ORGANIC MATERIALS, REFUSE MATERIALS AND SOFT AREAS IN SOIL SHALL BE REMOVED AND THE SOIL PREPARED FOR AN ALLOWABLE BEARING PRESSURE OF 2000psi.

FO2 - SHOULD THE CONTRACTOR DISCOVER ANY CONDITION WHICH COULD PREVENT THE ATTAINMENT OF THE STATED DESIGN PRESSURE, HE SHALL NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATLY.

#### SLAB ON GRADE

FO3 - COMPACT INTERIOR FILL TO 95% MINIMUM MAX DRY DENSITY (MODIFIED PROCTOR, ASTM D1557-58T OPTIMUM MOISTURE CONTENT). SOIL COMPACTION SHALL BE FIELD CONTROLLED BY A REPRESENTATIVE FROM A QUALIFIED LABORATORY APPROVED BY THE ENGINEER. EACH LAYER OF FILL SHALL NOT EXCEED 10" AND SHALL BE COMPACTED PRIOR TO THE PLACEMENT OF THE NEXT FILL LAYER.

FO3 - ALL FLOOR SLABS SHALL BE PLACED UPON A 4" THICK SAND LAYER FOR FINE GRADING.

#### CONCRETE AND REINFORCING

CO1 - CONCRETE WORK SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19).

CO2 - CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH AS FOLLOWS: FOUNDATIONS, FILLED CELLS AND CONCRETE BEAMS - 3000psi SLABS ON GRADE- 3000psi

CO3 — ALL REBAR SHALL CONFORM TO ASTM-615, GRADE 40, AND SHALL LAP A MIMIMUM OF 25" AT ALL JOINTS. SLABS WITH FIBER MESH OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185-02.

CO4 - COVER FOR ALL REINFORCING STEEL SHALL BE AS FOLLOWS (UNLESS NOTES): ALL FOOTINGS - 3"

SLABS ON GRADE -1-1/2" FROM TOP OF CONCRETE ALL BEAMS -1-1/2" ON STIRRUPS

CO5 - VERTICAL REBAR WALL REINFORCING SHALL BE A STANDARD HOOK WITH A 25" PROJECTION ABOVE SLAB AND HAVE A MINIMUM 7" EMBEDMENT.

# **MASONRY**

MO1 - ALL MASONRY CONSTRUCTION SHALL COMFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-14).

MO2 - ALL CONCRETE BLOCKS SHALL CONFORM TO ASTM C 90. 128 DAY STRENGTH MUST EQUAL 2000psi, FM SHALL EQUAL 1500psi LAID IN A RUNNING BOND. MO3 - ALL MORTAR SHALL BE TYPE S OR M.

MO4 - REINFORCE ALL CMU WALLS WITH A CONTINUOUS HORIZONTAL BOND BEAM GROUTED SOLID AND REINFORCE WITH A MINIMUM OF (1) #5 REBAR WITH A 25" OVERLAP AT EACH JOINT. MO5 — WHERE SHOWN, ALL VERTICAL CELLS OF BLOCK MASONRY SHALL BE FILLED WITH 3000psi GROUT HAVING A

28 DAY STRENGTH OF 3000psi AND A GROUND SLUMP NOT LESS THAN 8". REINFORCE WITH A MINIMUM OF (1) #5 VERTICAL REBAR WITH A MINIMUM 25" OVERLAP AT EACH JOINT. MO6 - GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED 10'-0" IN HEIGHT AND SHALL BE CONSOLIDATED AT THE TIME OF POURING BY RODDING OR VIBRATING.

MO7 - PROVIDE KNOCKOUTS IN CMU AT TH BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION.

#### STRUCTURAL LUMBER

LO1 - ALL STRUCTURAL AND LOAD BEARING WALLS SHALL HAVE A MINIMUM FB OF 1200psi.

LO2 — WALLS HIGHER THAN 9'-0" SHALL HAVE INTERMEDIATE BRIDGING SPACED NOT GREATER THAN 72" APART. LO3 - ALL LOAD BEARING WALLS SHALL HAVE A DOUBLE SYP No.2 TOP PLATE.

LO4 - ALL WOOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL SHALL BE PRESSURE TREATED.

## STRUCTURAL STEEL

SO1 - STEEL WORK SHALL CONFORM TO THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (USE THE LATEST EDITION).

# DRAWING INDEX

#### <u>ARCHITECTURAL</u>

COVER - BUILDING CODE DATA

FLOOR PLAN ELECTRICAL PLAN

- WALL SECTIONS & DETAILS

DOOR AND WINDOW SCHEDULES

FOUNDATION PLAN

 ROOF FRAMING PLAN LINTEL PLAN

David P. King, Jr ARCHITEC

7500 SW 61ST AVE SUITE 400 OCALA, FL. 34476 352.873.3737 (PH)

352.873.0737 (FAX)

AR 12,999

5044

**REGISTRATIONS:** 

STATE OF FLORIDA STATE OF GEORGIA PROJECT

NEW SINGLE FAMILY RESIDENCE

3/2/1 CARPORT RIGHT CMU/ HIP/ MONO

# HABITAT FOR **HUMANITY**

FOR

HOUSE 241

PID: 9033-1076-04 MARION COUNTY, FLORIDA

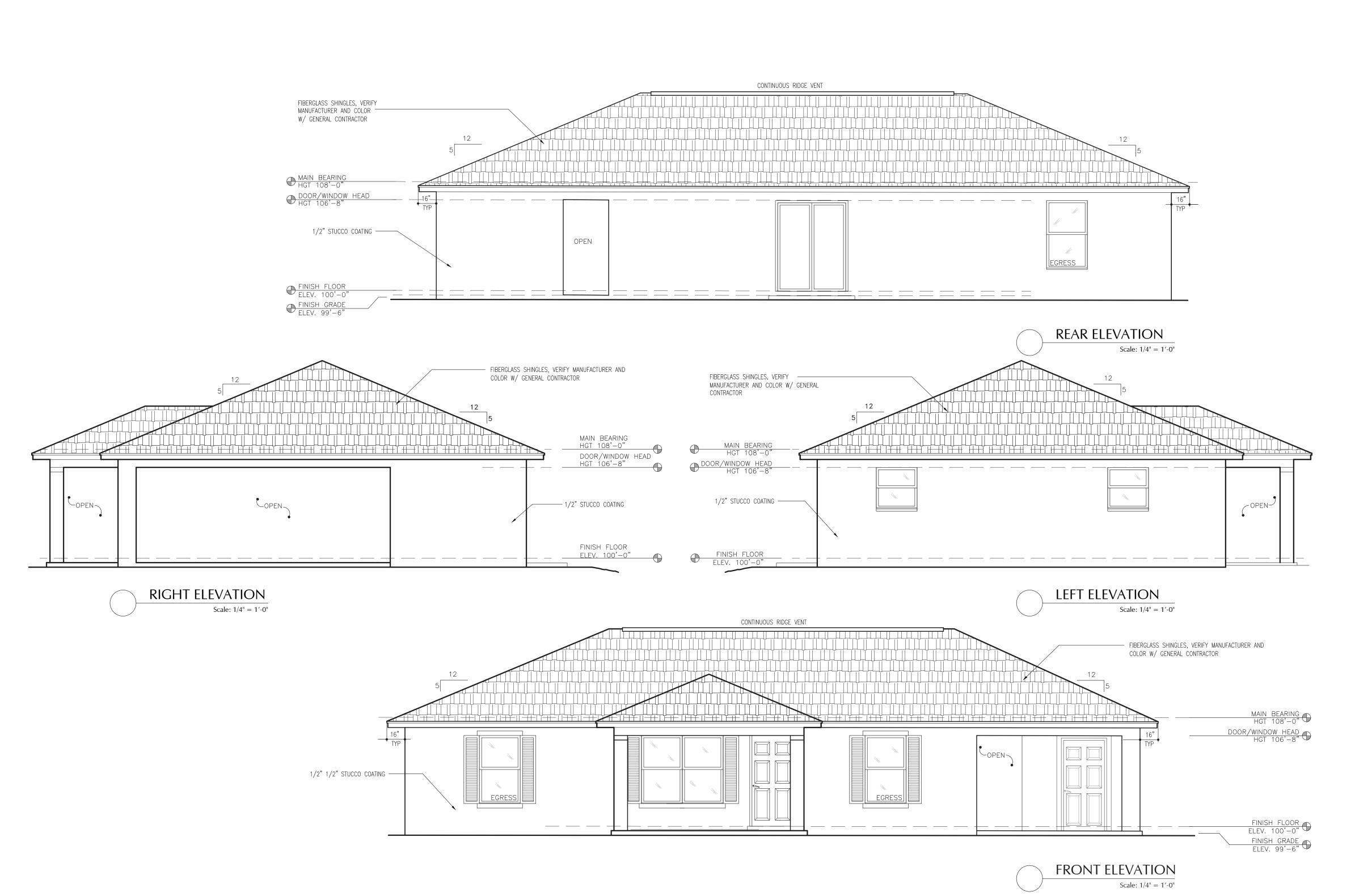
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ARCHITECT'S PROJECT No .:

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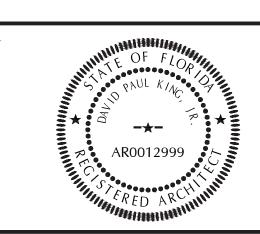
COVER BUILDING CODE DATA

SHEET NUMBER



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STRUCTURAL APPROVAL
BY REX D. BROWN
PX4054
MARION COUNTY PLANS EXAMINER
( SEAL VERIFIED BY OTHERS )



GENERAL CONTRACTOR

# David P. King, Jr ARCHITECT

7500 SW 61ST AVE SUITE 400 OCALA, FL. 34476 352.873.3737 (PH) 352.873.0737 (FAX)

REGISTRATIONS:
STATE OF FLORIDA
STATE OF GEORGIA

PROJECT

AR 12,999 5044

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3/2/1 CARPORT RIGHT CMU/ HIP/ MONO FOR

# HABITAT FOR HOUSE 241

PID: 9033-1076-04
MARION COUNTY, FLORIDA

HOUSES	DRAWN BY:	DPk
	CHECKED BY:	
COUNTY	APPROVED BY:	DPk
TY\ MARION	ARCHITECT'S PROJECT No.:	

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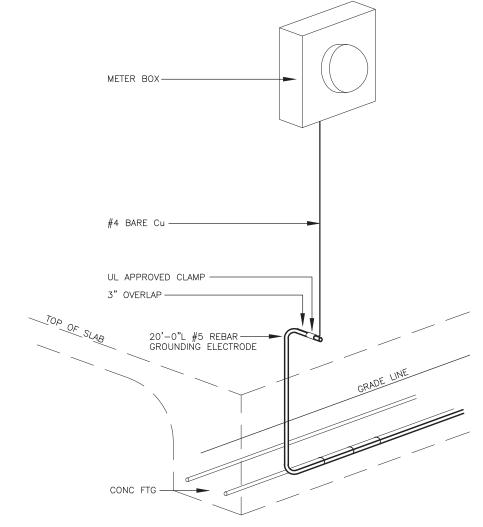
A1

# GENERAL ELECTRICAL NOTES: ALL SPECIAL OUTLETS AND LIGHTING AS SHOWN TO BE COORDINATED & VERIFIED WITH GENERAL CONTRACTOR

ELECTRICAL NOTES	
TYPE OF PROTECTION	PROTECTED DEVICE OR AREA
AFIC	FAMILY RM, LIVING RM, DINING RM, SUNROOM, PARLOR, LIBRARY, DEN, RECREATION RM, CLOSET,
AFIC/ GFIC	KITCHENS AND LAUNDRY RM (125V) DEVICES, IN BEDROOM AND HALLWAYS WHERE RECEPTACLE IS WITHIN 6' OF A SINK, BASEMENT
GFIC	KITCHENS (250V) DEVICES, WHERE RECEPTACLE IS WITHIN 6' OF A SINK, LAUNDRY (250V) DEVICE GARAGE (125 AND 250V) DEVICES, OUTDOOR RECEPTACLES (125 AND 250V) DEVICES, OUTDOOR OUTLETS (A/C AND SIMILAR, SUMP PUMPS AND BATHROOMS

1. ALL OUTLETS AND LIGHTING AS SHOWN TO BE COORDINATED & VERIFIED WITH GENERAL CONTRACTOR

2. PER NEC210.8 — SEE CHART THIS PAGE FOR LOCATION OF ARC/ GFIC FAULT PROTECTION LOCATIONS AND MEANS OF COMPLIANCE



(	GROUNDING ELECTRODE SYS	TEM DETAIL
N	OT TO SCALE	NEC-250-50(C)
	PROVIDE INTERSYSTEM BONDING TERMINATION BLOCK IN ACCORDANCE WITH FRBC CHAPTER	3609.3

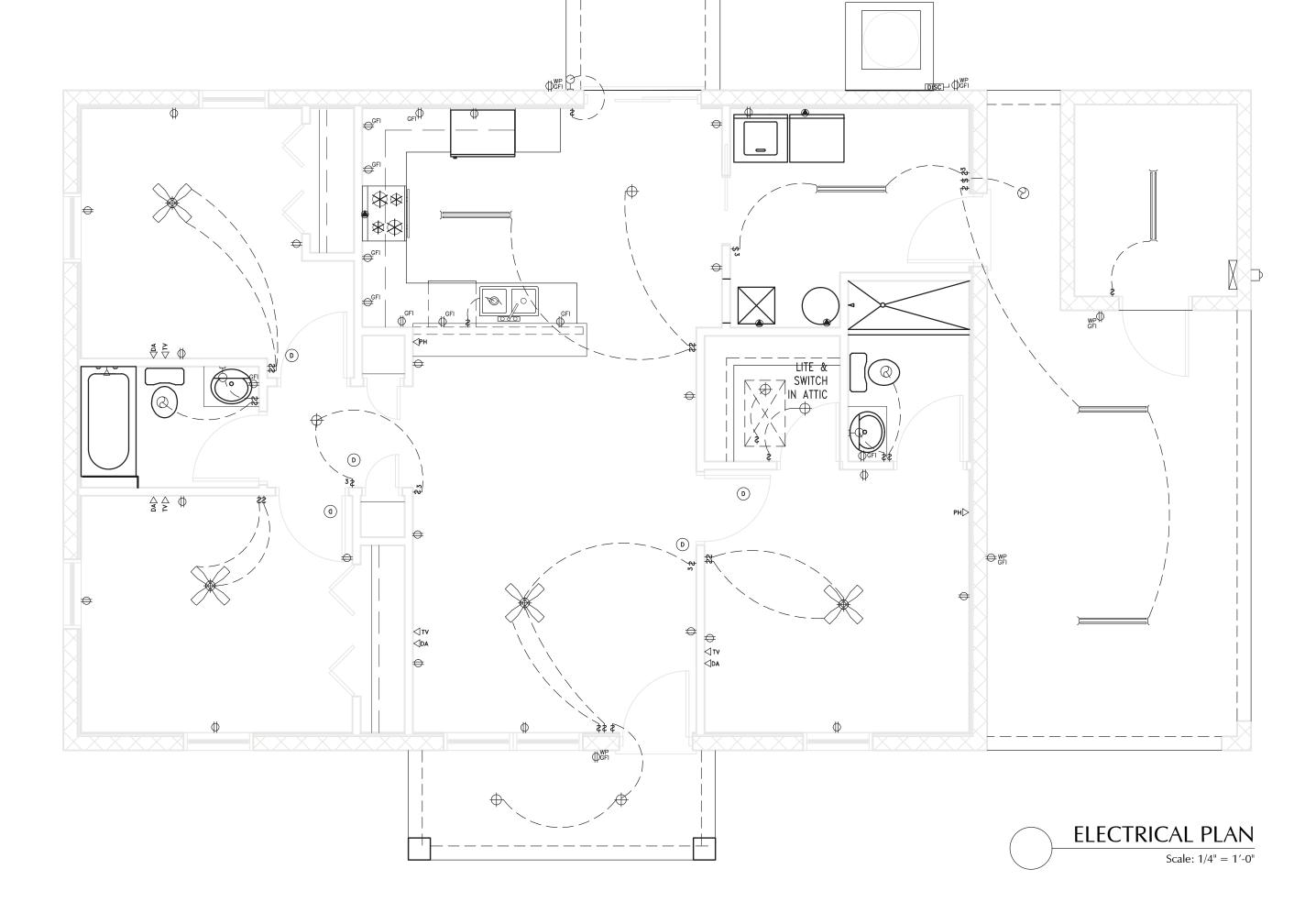
ELECTRICA	AL LEGEND NOT AL	LL SYMBOLS USED	ON THIS PROJECT
<b>+</b>	SURFACE MOUNTED LIGHT	\$	SINGLE SWITCH
Ю	WALL MOUNTED LIGHT	\$3	3-WAY SWITCH
<b>T</b>	WALL MOUNTED SCONCE LIGHT	\$4	4-WAY SWITCH
	RECESSED CAN LIGHT	\$ <sup>RC</sup>	REMOTE CONTROL SWITCH
-  RC VP	VAPOR-PROOF RECESSED	\$ <sup>D</sup>	DIMMER SWITCH
⊙ <sup>P</sup>	PENDANT LIGHT	□DB	DOOR BELL CONNECTION
-Ò <sup>RC</sup> EB	RECESSED EYEBALL CAN LIGHT	Сн	DOOR CHIME
-\$-	EXHAUST FAN W/ LIGHT	⊲ти	TV OUTLET
0	EXHAUST FAN	⊲рн	PHONE OUTLET
)(	UNDER CABNET	⊲DA	DATA OUTLET
	RECESSED LED LIGHT	(J)	JUNCTION BOX (FUTURE FIXTU
)======================================	DOUBLE BULB LED LIGHT	Ţ	THERMOSTAT
_ ∇	TRACK LIGHTING	DISC	CUT-OFF SWITCH
N	EXTERIOR FLOODLIGHT	S.S.	SURROUND SOUND BASE
P/L	EXTERIOR PATH LIGHT	+(\$	SURROUND SOUND SPEAKER
<b>(a)</b>	220 OUTLET		200 AMP ELEC. PANEL
Ф	110 OUTLET	Ĥ	METER
<b>(</b>	110V RECEPTACLE (SWITCHED)	VAC	CENTRAL VAC STATION
<del>\$</del>	QUAD RECEPTACLE		INTERCOM STATION
Ф	UNDER COUNTER 110 OUTLET	D	CARBON MONOXIDE AND SMO DETECTOR (COMBO OR SEPER
Ф	WATER-PROOF OUTLET	<i>\O</i> '	GARBAGE DISPOSAL
⊕ <sup>GFI</sup>	GROUND FAULT OUTLET		CELLING FAN W/
ф <sup>so</sup>	WP GFI SOFFIT OUTLET		CEILING FAN W/ PULL CHAIN FOR LIGHT
<u> </u>	GFI FLOOR OUTLET		
GATS	GENERATOR AUTO TRANSFER SWITCH		CEILING FAN W/ LIGHT

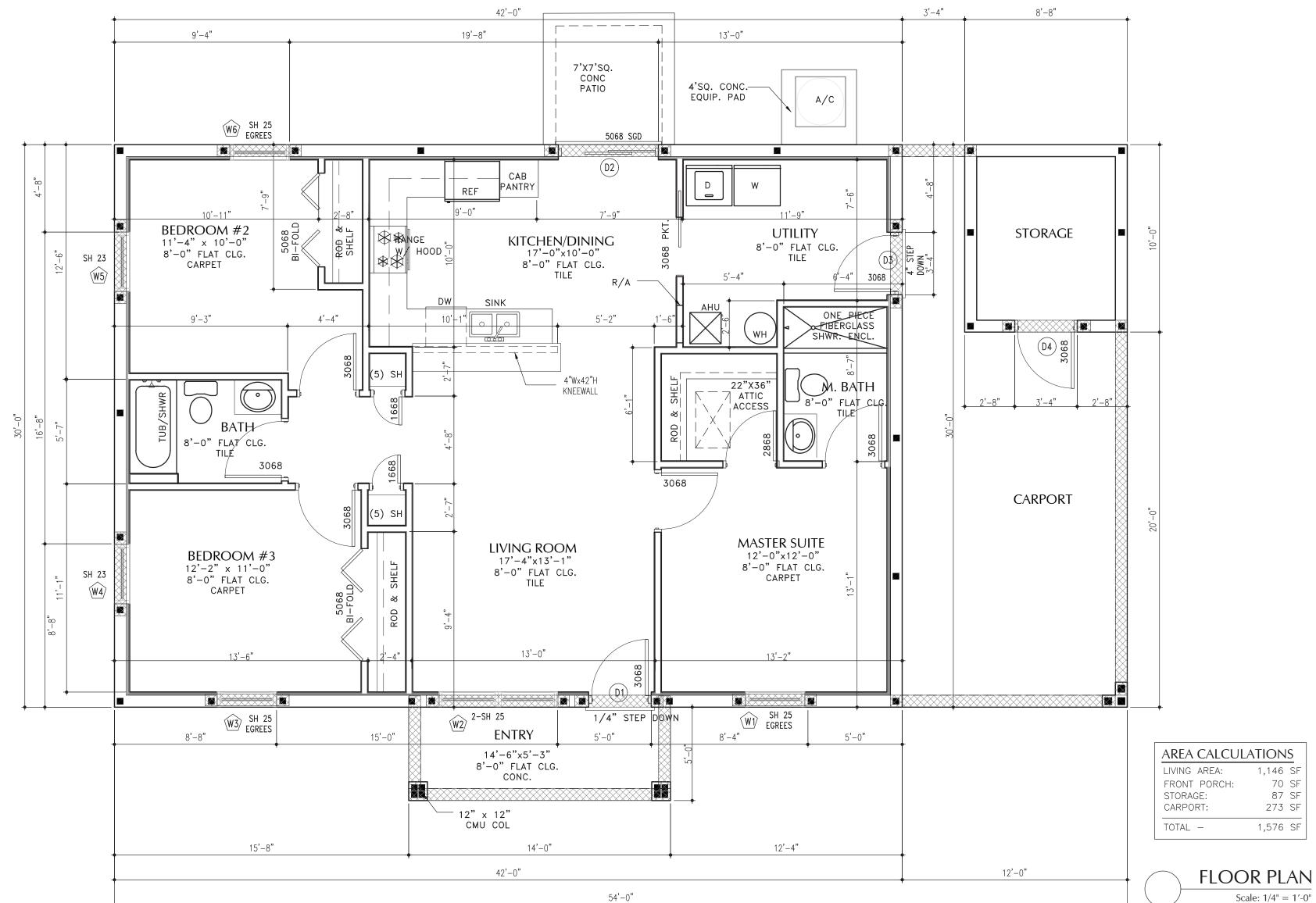
WIN						
MARK	MARK DESCRIPTION ROUGH OPENING HEADER SQ. FTG REMARKS					
(W1)	25 SH	38" x 62"	LT4	15.000	EGRESS	24.9 / -33.3
W2	(2) 25 SH	74" x 62"	LT8	30.000		23.8 / -31.0
(W3)	25 SH	38" x 62"	LT4	15.000	EGRESS	24.9 / -33.3
(W4)	23 SH	38" x 38"	LT4	9.000		24.9 / -33.3
(W5)	23 SH	38" x 38"	LT4	9.000		24.9 / -33.3
W6	25 SH	38" x 62"	LT4	15.000	EGRESS	24.9 / -33.3

VERIFY ALL WINDOW AND DOOR SIZES, TYPES, MANUFACTURER AND LOCATION W/ OWNER PRIOR TO CONSTRUCTION. VERIFY ALL ROUGH OPENING DIMENSIONS WITH WINDOW AND DOOR MANUFACTURER.

PROVIDE CONTINUOUS WEATHER STRIPPING AND EXTRUDED THRESHOLD AT EXTERIOR DOOR LOCATIONS.

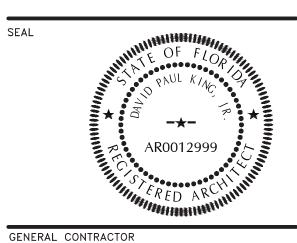
DOC	DOOR SCHEDULE						
MARK	MARK DESCRIPTION ROUGH OPENING BLOCK HEADER SQ. FTG REMARKS						
(D1)	3068 SC ENTRY DOOR	40" x 82"	LT23	28.33	SC PANEL DOOR DR	23.8 / -31.0	
D2	5068 SLIDING GLASS DOOR	64" x 82"	LT8	33.00	SLIDING GLS DR	23.8 / -31.0	
D3	3080 SC DOOR	40" x 82"	LT23	28.33	SC PANEL DOOR DR	23.8 / -31.0	
D4)	3080 SC DOOR	40" x 82"	LT23	28.33	SC FLUSH DOOR DR	23.8 / -31.0	
*REFER TO "CAST-CRETE" LINTEL SCHEDULE.							
VERIFY ALL DOOR SIZES, TYPES, MANUFACTURER AND LOCATION W/ OWNER PRIOR TO CONSTRUCTION.							
VERIFY A	VERIFY ALL ROUGH OPENING DIMENSIONS WITH DOOR MANUFACTURER.						





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STRUCTURAL APPROVAL BY REX D. BROWN PX4054 MARION COUNTY PLANS EXAMINER ( SEAL VERIFIED BY OTHERS )



David P. King, Jr

SUITE 400 OCALA, FL. 34476 352.873.3737 (PH) 352.873.0737 (FAX)

AR 12,999

5044

**REGISTRATIONS:** STATE OF FLORIDA STATE OF GEORGIA PROJECT

**NEW SINGLE FAMILY RESIDENCE** 

3/2/1 CARPORT RIGHT CMU/ HIP/ MONO FOR

HABITAT FOR HUMANITY HOUSE 241

PID: 9033-1076-04 MARION COUNTY, FLORIDA

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HOUSES\MC	DRAWN BY:	DF
	CHECKED BY:	
COUNTY	APPROVED BY:	DF
Y MARION	ARCHITECT'S PROJECT No.:	

SHEET TITLE:

1,146 SF

70 SF

273 SF

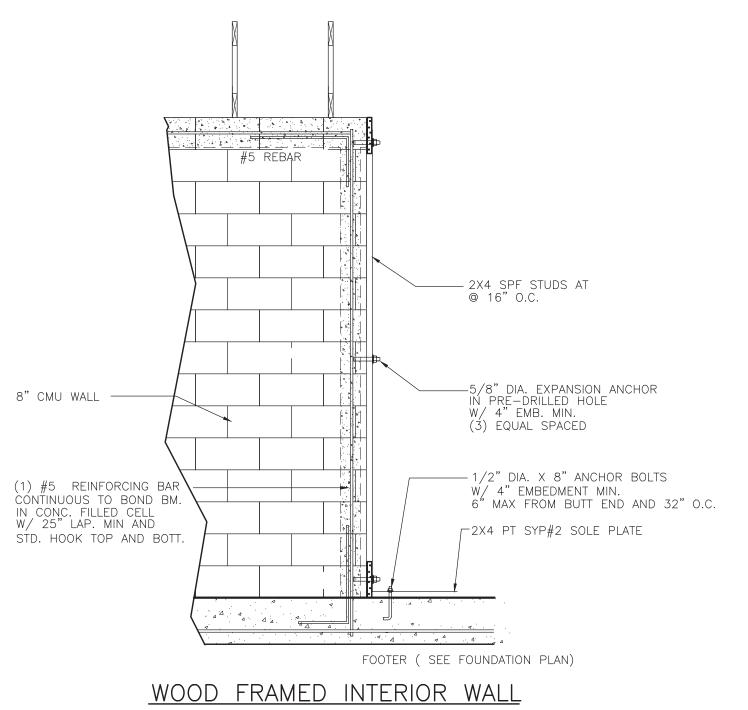
1,576 SF

Scale: 1/4'' = 1'-0''

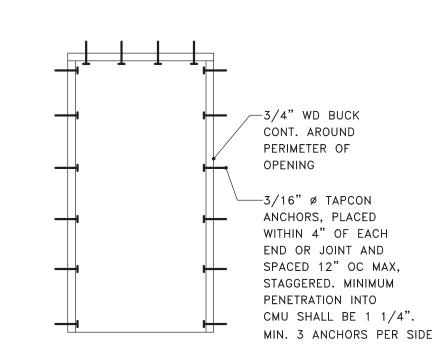
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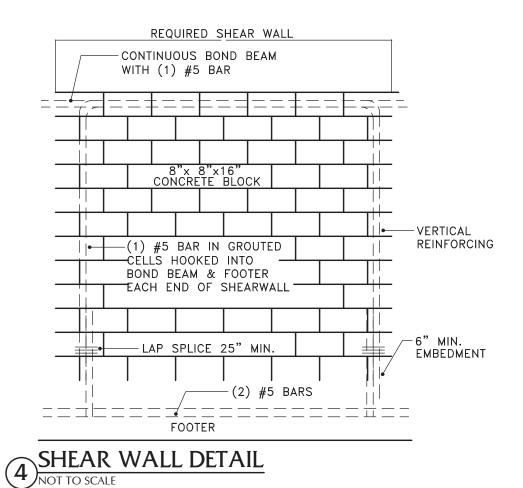
FLOOR PLAN ELECTRICAL PLAN

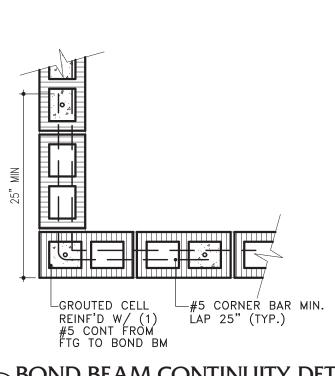
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CONNECTION DETAIL SCALE : 1/2" = 1'-0"

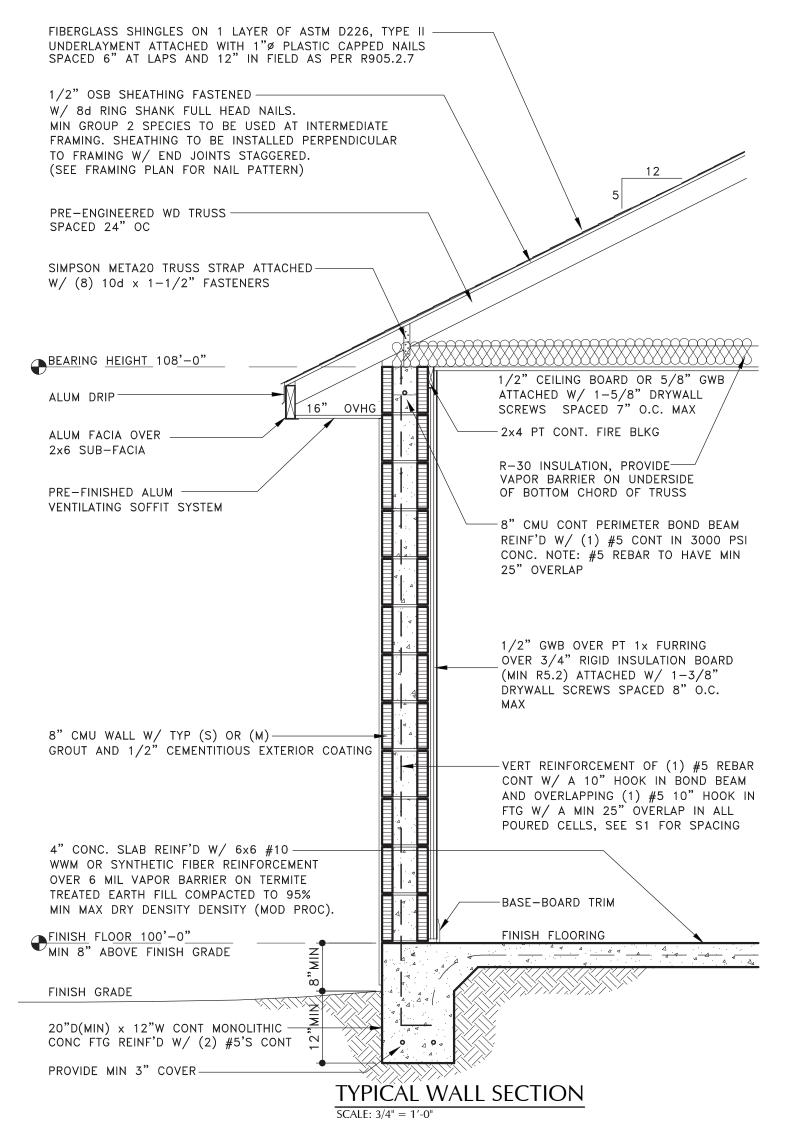


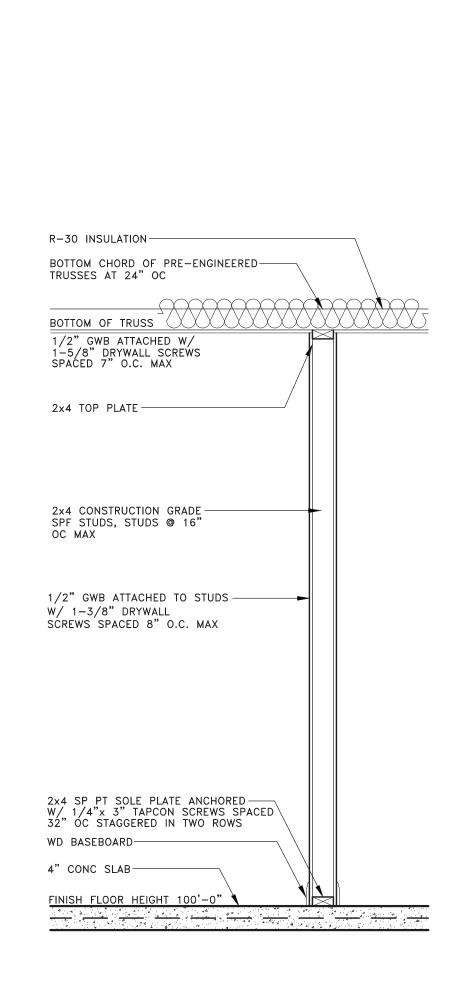




BOND BEAM CONTINUITY DETAIL

SCALE: 3/4" = 1'-0"





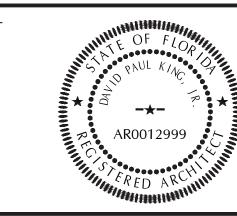
INTERIOR FRAME WALL SECTION

SCALE: 3/4" = 1'-0"

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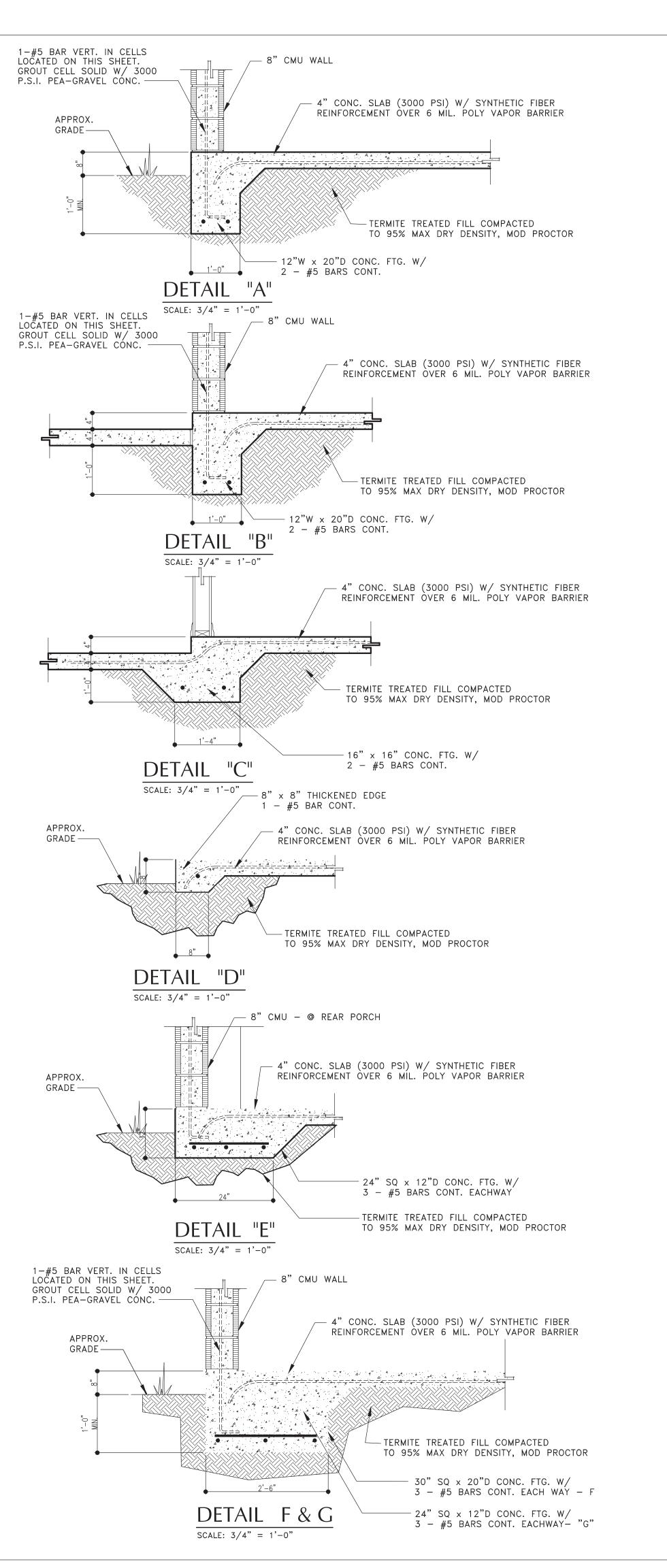
PID: 9033-1076-04 MARION COUNTY, FLORIDA

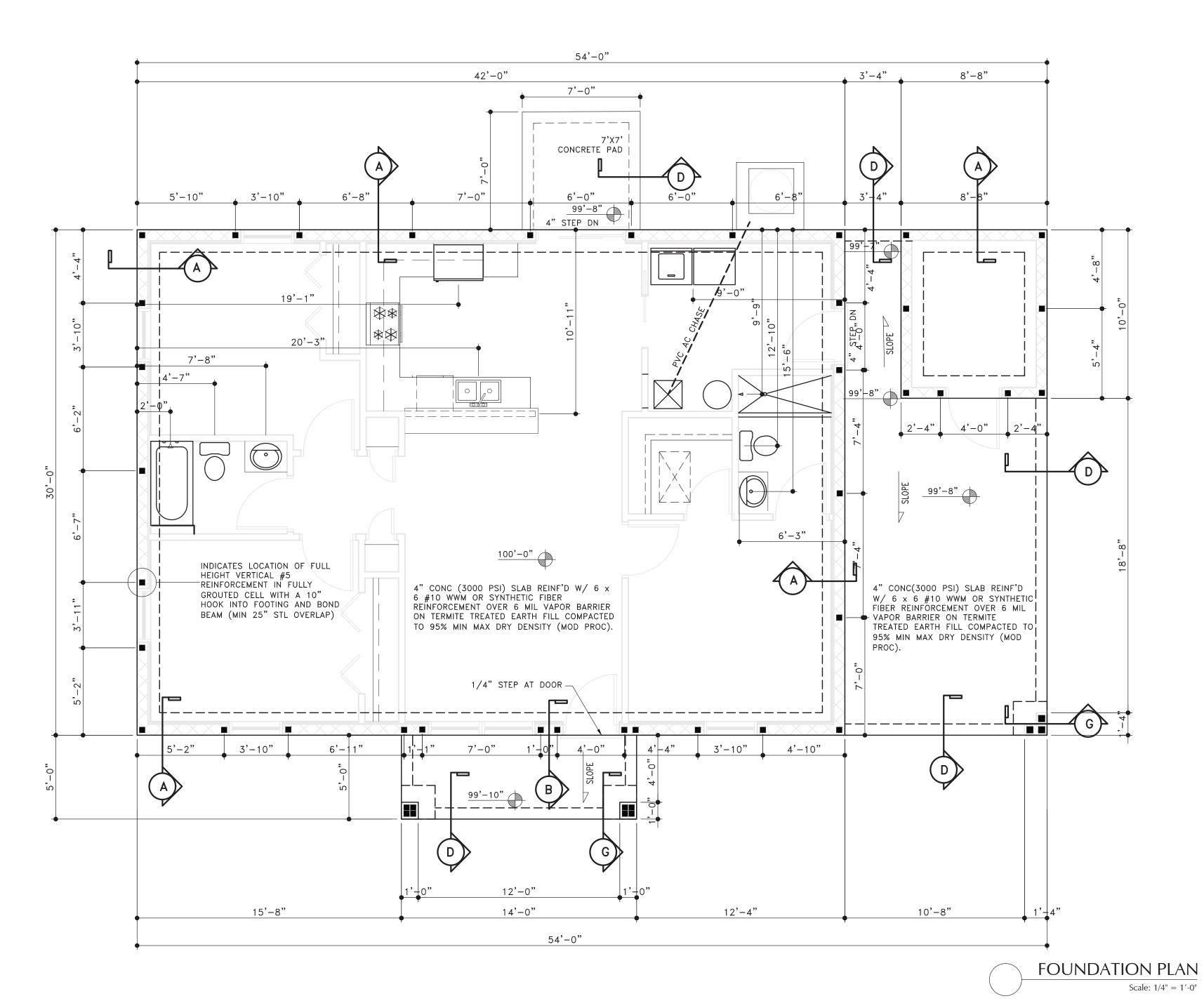
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APPROVED BY:	DPK
ARCHITECT'S PROJECT No.:	

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SECTION DETAIL

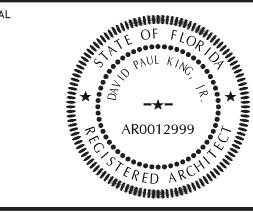
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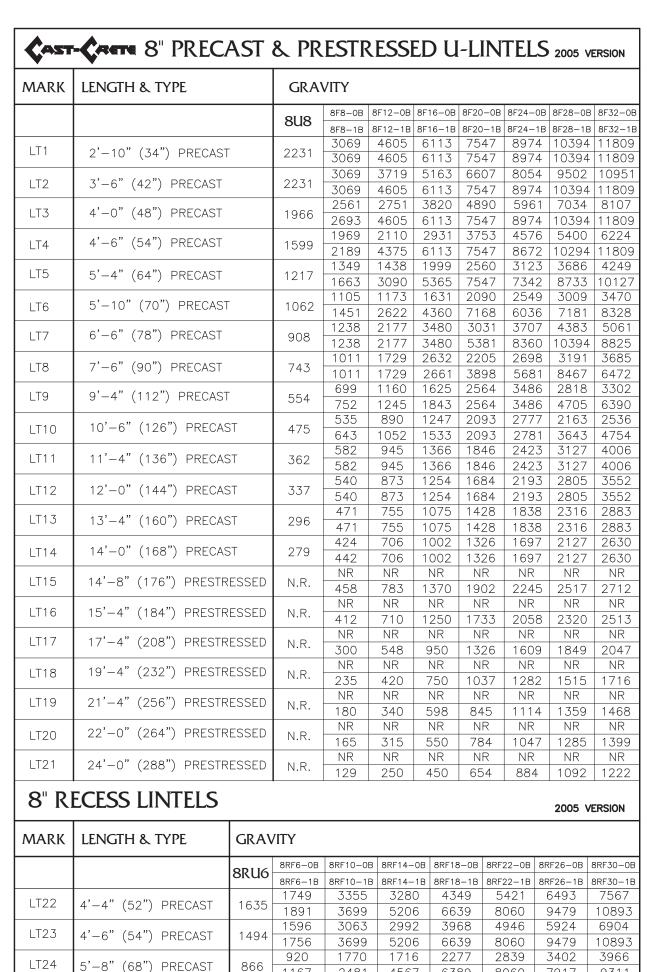
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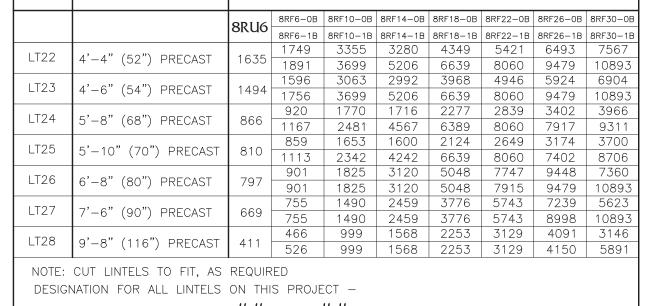
SHEET TITLE:

FOUNDATION PLAN
ROOF FRAMING PLAN

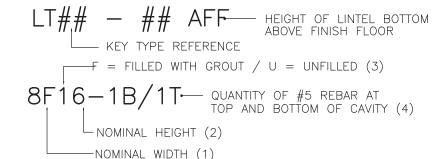
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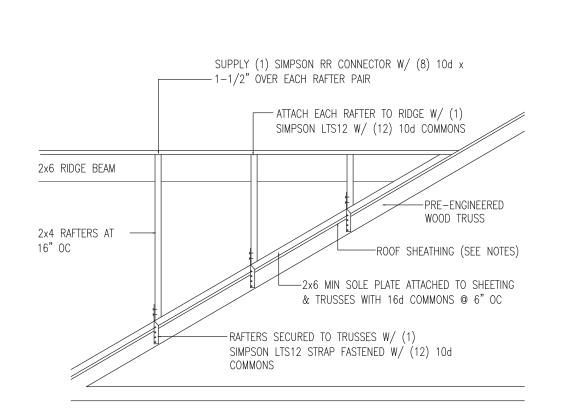




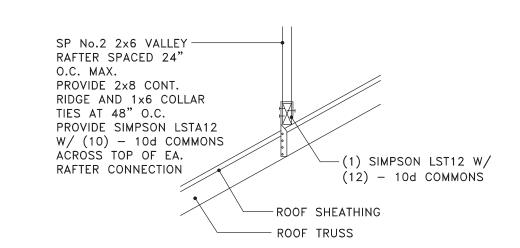




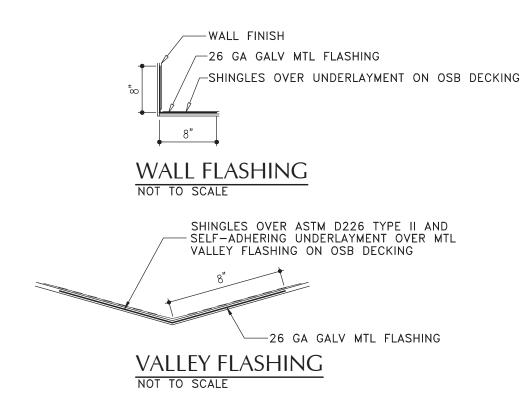
NOTE: LINTELS BY OTHER MFRS. HAVING EQUIVALENT OR GREATER CAPACITY, BY BE USED ALSO



# CONVENTIONAL VALLEY FRAMING DETAIL



#### VALLEY FRAMING NOT TO SCALE



ROOF ANCHOR SC				
MARK	UPLIFT	ANCHOR	FLORIDA APPROVAL #	
TYP, CMU	1450	(1) SIMPSON META20 FASTENED W/ (8) 10d x 1-1/2" COMMONS	FL11473.10	
A TRUSS TO CMU	2500	(2) SIMPSON HETA20 FASTENED W/ (9) 16d COMMONS EACH	FL11473.4	
TYP, WD	905	(1) SIMPSON H10A W/ (18) 10d x 1-1/2" COMMONS	FL10456.7	
TYP, GABLE TRUSS TO CMU	1465	(1) SIMPSON MSTAM24 W/ (9) 10d COMMONS AND (5) 1/4"x1-3/4" TITEN SCREWS	FL11473.11	
TYP, VALLEY FRAMING	805	(1) SIMPSON LTS12 STRAP W/ (12) 10d COMMONS (EACH END)	FL10456.15	
TYP, CONVENTIONAL FRAMING	805	(1) SIMPSON LTS12 STRAP W/ (12) 10d COMMONS	FL10456.15	
	130	(2) SIMPSON RR CONNECTORS W/ (8) 10d x 1−1/2" COMMONS @ EACH RAFTER PAIR	FL10466.29	
B - BEAM TO CMU WALL	1345	(1) SIMPSON HUC210-3 W/ (18)16d AND (14)1/4" X 2 3/4" TITEN SCREW	FL10531.10	

## TRUSS ENGINEERING NOTES

TRUSS LAYOUT SHOWN DEPICTS DESIGN INTENT ONLY. TRUSS MFR SHALL SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA

REGISTERED ENGINEER. UPLIFT ANCHORAGE AND LOADS MUST BE PROVIDED W/TRUSS PROFILES.

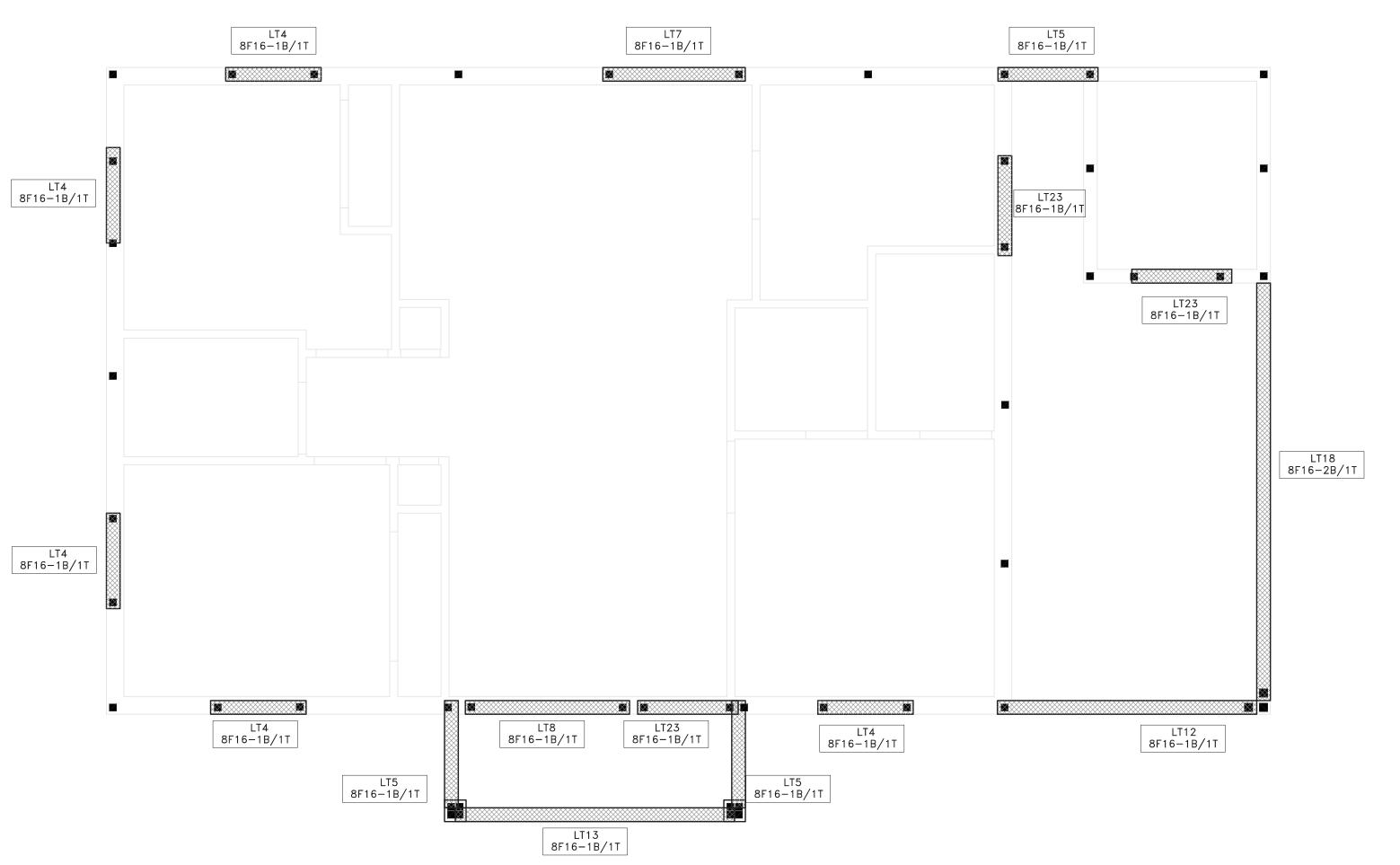
PROVIDE A CONTINUOUS LOAD PATH BETWEEN FOUNDATION AND ROOF SYSTEM. ALL CONNECTORS SHALL BE INSTALLED PER MRF'S RECOMMENDATIONS. FASTENERS NOT OTHERWISE SPECIFIED ON DRAWINGS SHALL BE IN ACCORDANCE W/ FBC 2023 8th EDITION

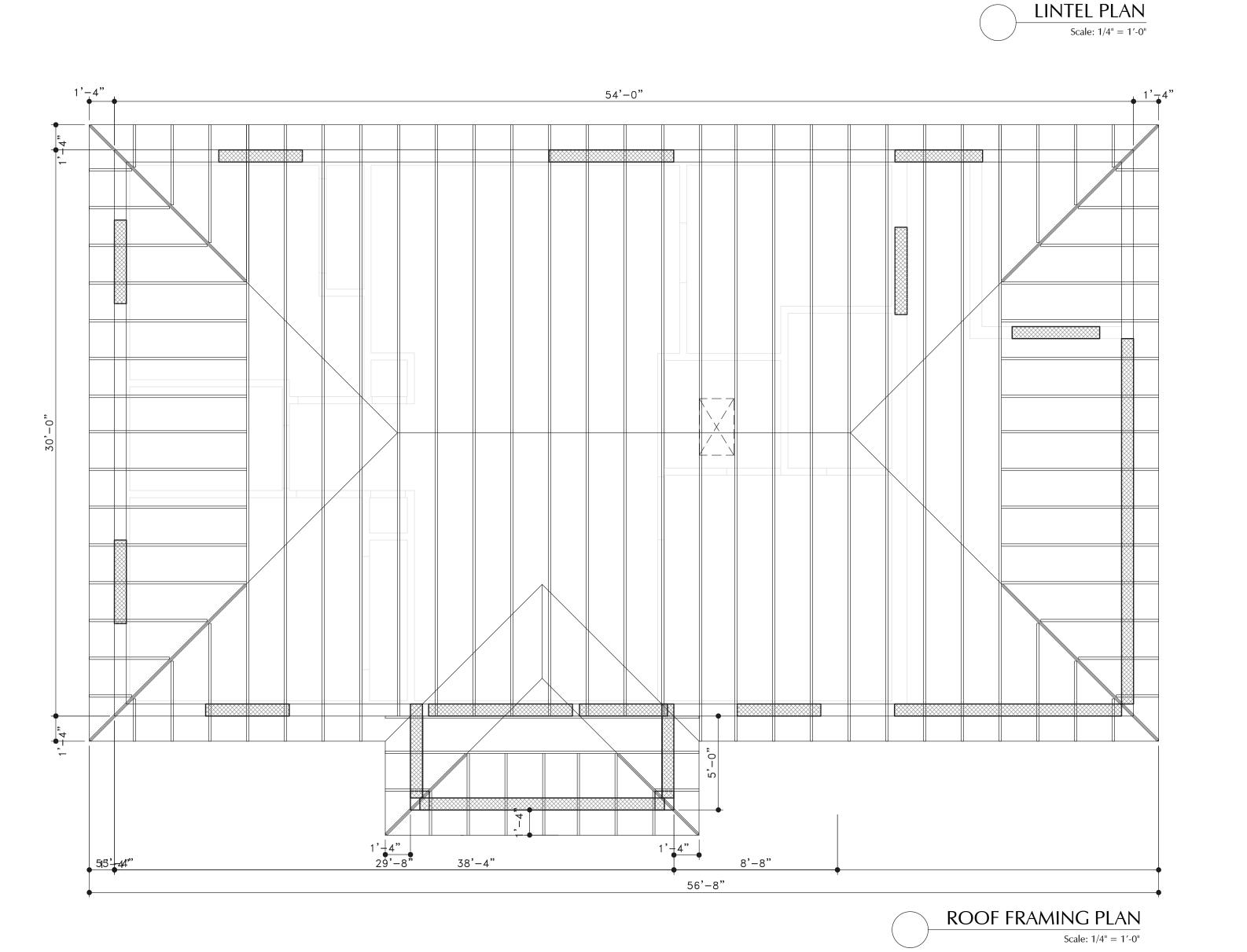
## **ROOF SHEATHING NOTES**

ALL SHEATHING SHALL BE ATTACHED TO ROOF FRAMING W/ 8d RING SHANK FULL HEAD NAILS WITHIN 48" OF EAVE 6" OC EDGES AND 6" AT INTERMEDIATE FRAMING

WITHIN 48" OF RIDGE 6" OC EDGES AND 6" AT INTERMEDIATE FRAMING WITHIN 60" OF RAKE EAVE 4" OC EDGES AND 4" AT INTERMEDIATE FRAMING ALL OTHER AREAS 6" OC EDGES AND 6" AT INTERMEDIATE FRAMING

ALL ROOF SHEATHING SHALL BE NOMINAL 1/2" SHEATHING ADA RATED FOR 24" SPACING ROOF APPLICATIONS

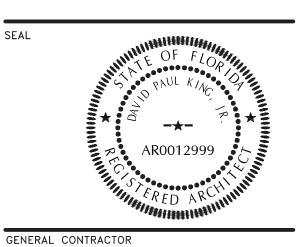




DRAWING ISSUE PERMIT 01 APRIL 2024

STRUCTURAL APPROVAL BY REX D. BROWN PX4054 MARION COUNTY PLANS EXAMINER

( SEAL VERIFIED BY OTHERS )



David P. King, Jr

OCALA, FL. 34476 352.873.3737 (PH) 352.873.0737 (FAX)

AR 12,999

REGISTRATIONS: STATE OF FLORIDA

STATE OF GEORGIA PROJECT

**NEW SINGLE FAMILY RESIDENCE** 

3/2/1 CARPORT RIGHT CMU/ HIP/ MONO

FOR HABITAT FOR **HUMANITY** HOUSE 241

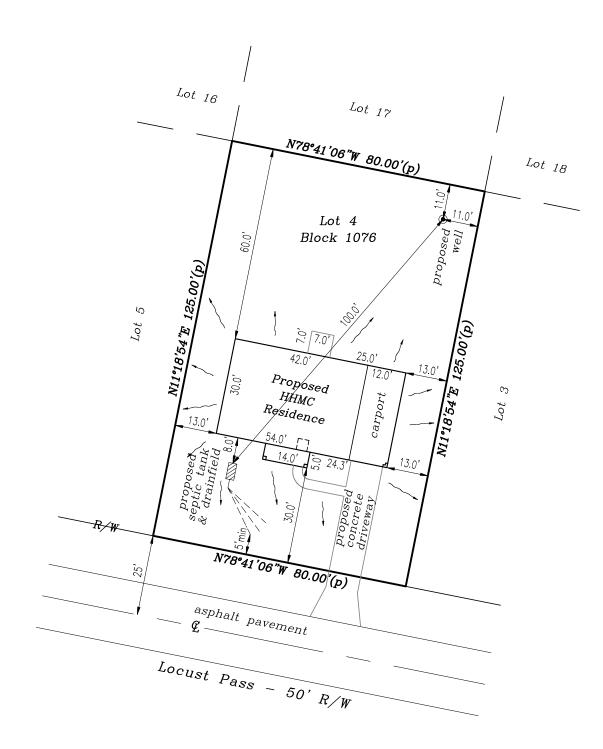
PID: 9033-1076-04 MARION COUNTY, FLORIDA

DRAWN BY:	DPK
CHECKED BY:	
APPROVED BY:	DPK
ARCHITECT'S PROJECT No.:	

SHEET TITLE:

ROOF FRAMING PLAN LINTEL PLAN

SHEET NUMBER





SITE PLAN for Parcel ID#: 9033-1076-04

DESCRIPTION (provided by client or their agent): Lot 4, Block 1076, SILVER SPRINGS SHORES, UNIT 33, according to the plat thereof recorded in Plat Book J, Pages 294-301, of the Public Records of Marion County, Florida.

#### NOTES:

1) Bearings based on an assumed meridian as shown hereon. 2) Underground improvements, if any, not located. 3) Public records have not been searched for rights of ways, easements, restrictions, reservations and/or other instruments of record. 4) This survey has been prepared for the sole and exclusive benefit of the parties named hereon and shall not be relied upon by any other individual or entity.

#### DRAINAGE:

- 1) Existing drainage pattern shall be maintained or improved. 2) All roof runoff (including downspouts) shall be directed toward the street or toward a drainage retention area. Roof
- runoff shall not be directed toward adjacent parcels of land. 3) Finish ground surface shall slope away from the house.

#### LEGEND:

Cn = curve numberBSL = building setback line CB = Chord Bearing

CL = centerline

R/W = right of way→ = fire hydrant

= septic tank

PC = point of curvature (R) = radial d = deed call p = plat callDUE = drainage & utility easement UE = utility easement ou = overhead utility lines

conc = concrete cov = covered

⊕ = water valve 

fm = field measurement  $\nabla$  = electric utility box

= telephone junction box □ □ = cable TV junction box

= utility junction box  $\otimes$  = utility pole > = proposed flowline

D.W. HIRST & ASSOCIATES, INC.

PROFESSIONAL LAND SURVEYORS 13560 SE 36th Avenue, Summerfield, FL 34491 P.O. BOX 3159, Belleview, Florida 34421 (352) 347-6775 dwhlandsurveying@aol.com

#### SITE PLAN FOR Habitat for Humanity of Marion County

DATE OF SKETCH: March 20, 2024 FIELD BOOK: NA PAGE: NA

DC FILE: 24-2851.txt FILE NO: 24-2851 DWG FILE: 24-2851(HHMC) Site Plan.dwg

DRAWN BY: BL CHK BY: **DWH** 

REVISIONS	DATE	BY

## PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online at <a href="https://www.floridabuilding.org">www.floridabuilding.org</a>.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			The state of the s
A. SWINGING	PLASTPRO	FIBERGLASS EXTENIOR DOOR	FU17347.1
B. SLIDING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	( toda of the control of the control	(VI I)TI-I
C. SECTIONAL/ROLL UP			
D. OTHER		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	V
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	CLESTON WILLDOWN CASSELLO L.	. Vinge Singue (buyy - Moder 8100	FL4091-1210
B. HORIZONTAL SLIDER	A STATE OF LAND AS STATES OF LINE	and studie (Mod - Weger 0100	114091-140
C. CASEMENT	F	,	
D. FIXED		1	
E. MULLION	CUSTOM WILDOW Sy FTEMS, INC	Factomy- Installed	to seed no
F. SKYLIGHTS	COCSTANT OFFICE SALES INC	( BCO My -   DCCACCES	F14091-R10
G. OTHER			
3. PANEL WALL			Section 1
A. SIDING			
B. SOFFITS	PUGET	Vinyu Siftit	FL 33919.1
C. STOREFRONTS	COLORA	Minde 2011	१८ ३०११५. १
D. GLASS BLOCK			
E. OTHER		ă.	
4. ROOFING PRODUCTS			Section 2
A. ASPHALT SHINGLES	OUTING COMMUNG	Asperant Signiques	FU0674.13
B. NON-STRUCT METAL	Overles Colon-1-1	We was alludez	TV10014.13
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER	GAF	In De Ser De se Diner Use of	FL 6247.15
	STLAS	LOW PROFILE ROOF RIGHT VENT SUMMIT GO UNDERLAYMENT	Fi 21350-P4
5. STRUCT COMPONENTS		SHOWILL GO WAS GLOCAL MANERAL	FU 1/350-1-4
A. WOOD CONNECTORS	SMOTON SMONG THE	LTS 12 SMAD	PU0456.7
B. WOOD ANCHORS	Simpson Smong Tie	META 20 (CHILTMASS)	FU 11473.3
C. TRUSS PLATES	Suppose they Products	STRUCTURENT TRUSS PLATER	FU 1999.3
D. INSULATION FORMS	The rail browns	MINICI MIDD (1800)   MILES	ナレビー
E. LINTELS	MARIOM MASONING MAT'LS.	DATES OF LINTER	FL 12193-R5
F. OTHERS	777777 1007701-100	North Conten	1/1/1/-109
6. NEW EXTERIOR			
A. ENVELOPE PRODUCTS			
Α.		7	

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; (1) copy of the product approval (2) performance characteristics which the product was tested and certified to comply with (3) copy of the applicable manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

$\bigcap$	9	
Kolika	4/12/24	
Applicant Signature	Date	
		Plan 3 – Rev 2-19 ADA

#### RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

#### Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

	This checklist
	Form R405-2023 report
	Input summary checklist that can be used for field verification (usually four pages/may be greater)
	Energy Performance Level (EPL) Display Card (one page)
	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.
	Mandatory Requirements (five pages)
Red	quired prior to CO:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Habitat for Humanity House 241 TBDLocust Street: TBD Locust Pass City, State, Zip: Ocala, FL, 34472 Owner: Design Location: FL, Ocala	PassBuilder Name: Permit Office: Marion Permit Number: Jurisdiction: 521400 County: Marion(Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(113.0 sqft.) 8. Description 9. Area 9. a. U-Factor: 9. Dbl, U=0.33 9. SHGC: 9. SHGC=0.23 9. U-Factor: 9. N/A 9. SHGC: 9. C. U-Factor: 9. N/A 9. SHGC: 9. C. U-Factor: 9. N/A 9. SHGC: 9. SHGC: 9. Area Weighted Average Overhang Depth: 9. Area Weighted Average SHGC: 9. O.230	10. Wall Types(1152.0 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior B. N/A c. N/A d. N/A  11. Ceiling Types(1146.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 1146.00 ft² b. N/A c. N/A  12. Roof(Comp. Shingles, Vented) Deck R=0.0 1242 ft² 13. Ducts, location & insulation level a. Sup: Attic, Ret: Main, AH: Main 6 218 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 22.6 SEER2:15.00
8. Skylights Description Area U-Factor:(AVG) N/A N/A ft <sup>2</sup> SHGC(AVG): N/A  9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 1146.00 ft <sup>2</sup>	15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 22.0 HSPF2:7.50  16. Hot Water Systems a. Electric Cap: 50 gallons
b. N/A R= ft <sup>2</sup> c. N/A R= ft <sup>2</sup>	b. Conservation features  None  17. Credits  Pstat
Glass/Floor Area: 0.099 Total Proposed Modifie  Total Baselir  NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or	PASS I
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY: Maggis Sims  04/05/2024 Energycalcs.net 386-775-0908  DATE:  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.
- Compliance requires certification by the air handler unit may	nufacturar that the air handler and a construction

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

## **INPUT SUMMARY CHECKLIST REPORT**

					PR	OJE	CT	******					**	
Owne Builde Builde Permi Jurisd Family New/E	ing Type: er: er Home ID: er Name: it Office: diction: ly Type: Existing: Construct:	User	anity House 241 TBD	Locust P Bedroo Conditi Total S Worst ( Rotate Cross \ Whole I Terrain: Shieldir	oms: oned Artories: Case: Angle: Ventilati House F	1 0 on: Fan: S	146 lo	Loi Blo Pla Str Co	dress type: #: ck/SubDivi tBook: eet: unty: y, State, Zi	ision: — TB Ma p: Od	D Locus arion eala,	st Pass		
					CL	IMAT	Έ						***************************************	
√ Desig Local			Tmy Site			Design To .5%	emp 2.5%		ign Temp Summer	Heat Degree		Desig Moisture		aily temp ange
FL,	Ocala		FL_OCALA_MUNI	_(AWOS)	) 2	28	91	70	75	1144	.5	51	Med	lium
,					BL	OCK	S							
V Numt	ber	Name	Area	V	olume									
1		Block1	1146	9	168 cu f	ft				10 bet 1		***************************************		
					SP	ACE	S		***************************************					
Numb	ber	Name	Area	Volume	Kitch	en O	ccupants	Bed	Irooms	Finish	ned	Coo	led l	Heated
1		Main	1146	9168	Yes	\$	4		3	Yes		Υє	es	Yes
					FL	OOR	S	(	(Total E	xpose	d Are	ea = 11	46 sc	ı.ft.)
<b>/</b> #	Floor Type	)	Space		osed m(ft)	Area		alue . Joist	U-Factor	Slab Vert/Ho		Tile	Wood	Carpet
1 \$	Slab-On-Gra	ide Edge Ins	Main	13	37 <i>′</i>	1146 sqft	0		0.304	0 (f	t)/0 (ft)	0.00	0.00	1.00
					R	OOF								
<b>/</b> #	Туре		Materials		Roof Area	Gable Area		Rad Barr		SA Tested	Emitt	Emitt Tested	Deck Insul.	
1 H	Hip		Composition shingle	s 12	242 ft²	0 ft²	Medium	N	0.75	No	0.9	No	0	22.62
					A <sup>·</sup>	TTIC			7.000					
/#	Туре		Ventilation		Ven	nt Ratio (1	1 in) /	Area	RBS		IRCC			
1 F	-ull attic		Vented			300	11	146 ft²	N		N			
					CE	ILING	<del></del>	(	Total E	xpose	d Are	a = 11	46 so	.ft.)
/#	Ceiling Typ	pe	S	pace	R	-Value	Ins. Type			-	raming		<u> </u>	s Type
		nder attic(Vented		Main					***************************************					

#### FORM R405-2023

## **INPUT SUMMARY CHECKLIST REPORT**

								***************************************	W	ALLS	3			(Tot	al Exp	osed	Area	= 11	52 sq	.ft.)
$\checkmark$	, #	Ornt		acent To	Wall Type		Space			avity -Value	Widtl Ft		He	eight In	Area	U-	Shea	th Frm	ı. Solar c. Absoı	Below
	_ 1 _ 2 _ 3 _ 4 _ 5	SW SE NE	1	Exterior Exterior Exterior Exterior Exterior	Conc. Blk - In Conc. Blk - In Conc. Blk - In Conc. Blk - In Conc. Blk - In	t Ins t Ins t Ins	M M M	1ain 1ain 1ain 1ain 1ain		5.2 5.2 5.2 5.2 5.2 5.2	28.0 14.0 30.0 42.0 30.0	0 0 0 0	8.0 8.0 8.0 8.0	0 0	224.0 112.0 240.0 336.0 240.0	0.128 0.128 0.128	3 3 3	0 0 0 0	0.45 0.45 0.45 0.45 0.45	0 % 0 % 0 % 0 %
									DC	ORS	3			T)	otal E	xpose	ed Ar	ea =	40 sq.	 .ft.)
$\checkmark$	#	Ornt		Adjacent	To Door Type		Space	1		Stor	ms		U-V	/alue		Vidth Ft <b>i</b> n		Height Ft In	Ar	ea
_	_ 1 _ 2	SW SE			Insulated Insulated		Mair Mair				one one			).40 ).40	3.00 3.00		6.00 6.00			.Oft² .Oft²
								٧	VIN	DOW	<b>VS</b>			(To	tal Ex	posed	d Are	a = 1	13 sq.	ft.)
$\checkmark$	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp	Storm	Total Area (ft²)		Same ' Units	Width (ft)	Height (ft)	Overl Depth (ft)		Interio	r Shade	Screen
	2 3 4	SW SW NE NE NE	1 2 4 4 5	Vinyl Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Y Y Y Y	0.33 0.33 0.33 0.33 0.33	0.23 0.23 0.23 0.23 0.23	N N N N	N N N N	30.0 30.0 20.0 15.0 18.0		1	3.00 3.00 4.00 3.00 3.00	5.00 5.00 5.00 5.00 3.00	1.3 5.3 1.3 1.3	1.3 1.3 1.3 1.3	Drape: Drape: Drape:	s/blinds s/blinds s/blinds s/blinds s/blinds	None None None None
								INF	ILT	RAT	ION								****	
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									M	ASS										
$\vee$	#	Mas	s Тур	e		Ar	ea		Т	hicknes	s		Furnitu	re Fra	ction	\$	Space			
	_ 1	Def	ault(8	lbs/sq.ft.)		0	ft²			0 ft				0.30			Main			
							F	IEAT	INC	SY	STE	M								
<b>V</b>	#	Sys	tem Ty	/ре	S	ubtype/\$	Speed	AHRI	#	Effici	ency		Capacity kBtu/hr	, . En	Geoth try Po		eatPum Volt (		Ducts	Block
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							C	OOL	.INC	3 SY	STE	M								
	#	Sys	tem Ty	/pe	S	ubtype/S	Speed	АН	RI#	Effi	iciency			pacity Stu/hr		Air Flow cfm	s	HR	Duct	Block
	_ 1	Cen	tral Ur	nit		Split/s	Single	2103	18449	9 SEE	R2:15.	0	22.6			790	0	.84 s	sys#1	1

FORM R405-2023

## **INPUT SUMMARY CHECKLIST REPORT**

					НОТ	W/	TER S	SYSTE	M					** <b>-</b> *-	
<b>V</b> #	System Type	: Subtyp	ре	Location		EF(U	EF) Ca	ip (	Jse	SetPnt	Fixtur	e Flow	Pipe Ins	. Pip	e length
1	Electric	None		Main	***	0.95 (0	0.93) 50.00	) gal 60	gal	120 deg	Stan	dard	None		99
	Recirculation System	Red	circ Control Type		Loop length	Bran leng		•	VHR	Facilities Connecte		ual	DWHR Eff	Oth	er Credits
1	No				NA	NA	N/	A No		NA	N	A	NA	No	ne
							OUCTS		****					77	
VDuct #	Location	Supply R-Value	Area Loc	Reteation I	ırn R-Value	Area	Leakaç	је Туре	Ha	Air C andler	FM 25 TOT	CFM 25 OUT		RLF H	HVAC# leat Cool
1A	ttic	6.0 218	3 ft² Main		6.0	55 ft²	Default	Leakage	Ŋ	Main (E	Default) (	Default)		THE STATE OF THE S	1 1
				ME	СНА	NIC	AL VE	NTILA	TIO	N					
√ Туре	•		Supply CF	M E	xhaust (	CFM	HRV F	an Ru	ın Time	)	Heating	System	*******	Cooling	System
Nor	ne		0.0		0.0		0.0 0.0	w	0 %	1 - Ele	ectric He	at Pump	**********	1 - Cent	ral Unit
					TE	MPI	ERATU	JRES						*****	
Progra Coolin Heatin Ventin	ng [X] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	O M [] M []	ay ay	Fans: N [X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[]	Aug	[X] Sep [] Sep [] Sep	[] Oo [] Oo [X] Oo	t [X	] Nov ] Nov ] Nov	[] Dec [X] Dec [] Dec
	rmostat Sched edule Type	lule: HERS	2006 Refere 1	nce 2	3	4	5	6	Hours 7	' 8	3	9	10	11	12
Coo	oling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78		78 78	78 78	80 78	80 78	80 78	80 78
Coo	oling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78		78 78	78 78	78 78	78 78	78 78	78 78
Hea	iting (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68		68 68	68 68	68 68	68 68	68 66	68 66
Hea	iting (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68		68 68	68 68	68 68	68 68	68 66	68 66

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX\* = 93

The lower the EnergyPerformance Index, the more efficient the home.

TBD Locust Pass, Ocala, FL, 34472

<ol> <li>New construction or existing</li> <li>Single family or multiple family</li> <li>Number of units, if multiple family</li> <li>Number of Bedrooms</li> </ol>	New (From Plans)  Detached  1  3	<ol> <li>Wall Types(1152.0 sqft.)</li> <li>Concrete Block - Int Insul, Exter</li> <li>N/A</li> <li>N/A</li> <li>N/A</li> <li>N/A</li> </ol>	Insulation Area ior R=5.2 1152.00 ft <sup>2</sup>
<ul><li>5. Is this a worst case?</li><li>6. Conditioned floor area above grade Conditioned floor area below grade</li></ul>		<ol> <li>Ceiling Types(1146.0 sqft.)</li> <li>Flat ceiling under att (Vented)</li> <li>N/A</li> <li>N/A</li> </ol>	Insulation Area R=30.0 1146.00 ft <sup>2</sup>
7. Windows** Description a. U-Factor: Dbl, U=0.3 SHGC: SHGC=0.2 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang D Area Weighted Average SHGC: 8. Skylights Description U-Factor:(AVG) N/A SHGC(AVG): N/A	113.00 ft <sup>2</sup> 23  ft <sup>2</sup> ft <sup>2</sup> 2epth: 2.373 ft 0.230	<ul> <li>12. Roof(Comp. Shingles, Vented)</li> <li>13. Ducts, location &amp; insulation leve</li> <li>a. Sup: Attic, Ret: Main, AH: Main</li> <li>b.</li> <li>c.</li> <li>14. Cooling Systems</li> <li>a. Central Unit</li> <li>15. Heating Systems</li> <li>a. Electric Heat Pump</li> </ul>	
9. Floor Types a. Slab-On-Grade Edge Insulation b. N/A c. N/A	Insulation Area R= 0.0 1146.00 ft <sup>2</sup> R= ft <sup>2</sup> R= ft <sup>2</sup>	<ul><li>16. Hot Water Systems</li><li>a. Electric</li><li>b. Conservation features</li><li>17. Credits</li></ul>	Cap: 50 gallons EF: 0.950 None Pstat

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.

\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.



#### Florida Building Code, Energy Conservation, 8th Edition (2023) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

**			
ADDRESS:	TBD Locust Pass	Permit Number:	***
	Ocala, FL 34472		

MA	NDATORY REQUIREMENTS - See individual code sections for full details.
	SECTION R401 GENERAL
	R401.3 Energy Performance Level (EPL) display card - (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
	SECTION R402 BUILDING THERMAL ENVELOPE
	R402.2.10.1 Slab-on-grade floor insulation installation (Mandatory). Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2, or the distance of the proposed design as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.
	R402.2.11.1 Crawl space walls insulation installation (Mandatory). Where crawl space wall insulation is installed, it shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the Florida Building Code, Building, or Florida Building Code, Residential, as applicable. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.
	R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
	<b>Exception:</b> Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
	<b>R402.4.1 Building thermal envelope.</b> The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
	R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
	R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 of the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or

an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
- 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
- 3. Interior doors, if installed at the time of the test, shall be open.
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- 7. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.

Flo	rida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)
	R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air.  Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception: Site-built windows, skylights and doors.
	R402.4.4 Rooms containing fuel - burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.
	Exceptions:  1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.  2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.  R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
	R402.4.6 Air-sealed electrical and communication boxes. Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.
	SECTION R403 SYSTEMS
R4 □	103.1 Controls  R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system
	R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps with supplementary electric-resistance heaters shall have controls that limit supplemental heat operation to only those times when one of the following applies:  1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.  2. The heat pump is operating in defrost mode.  3. The vapor compression cycle malfunctions.  4. The thermostat malfunctions
	R403.3.2 Sealing (Mandatory). All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.
	Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
	R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
	R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:  1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.  2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire
	system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.  Exceptions;  1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
	2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.  A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

#### Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued) R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3. R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible. R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water. R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. R403.5.2 Demand recirculation water systems (Mandatory). Where installed, demand recirculation water systems shall have controls that comply with both of the following: 1. The control shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance. 2. The control shall limit the temperature of the water entering the cold water piping to 104°F (40°C). R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/2 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank. R403.5.6 Water heater efficiencies (Mandatory). R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C). R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off. R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1. R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria: 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and 2. Be installed at an orientation within 45 degrees of true south. R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

#### Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

**Exception:** Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

## TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY <sup>a</sup> (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	<90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

- a. When tested in accordance with HVI Standard 916
- **R403.6.2 Ventilation Air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
  - 1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
  - 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
  - 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

#### R403.7 Heating and cooling equipment.

R403.7.1 Equipment sizing (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

#### Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

	R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.  The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.  Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.
	<ul> <li>Exceptions:</li> <li>1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.</li> <li>2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.</li> </ul>
R403.	7.1.2 Heating equipment capacity.
	R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design load is 1.15 times greater than the design cooling load.
	R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
	R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
	R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:  1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.  2. A variable capacity system sized for optimum performance during base load periods is utilized.
	R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
	R403.9 Snow melt and ice system controls (Mandatory). Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
	<b>403.10 Pools and permanent spa energy consumption (Mandatory).</b> The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
	R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater.  Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
	R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

- Where public health standards require 24-hour pump operation.
   Pumps that operate solar- and waste-heat-recovery pool heating systems
   Where pumps are powered exclusively from on-site renewable generation.

#### Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued) R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss. Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights. R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard. R403.11 Portable spas (Mandatory). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14 R403.13 Dehumidifiers (Mandatory). If installed, a dehumidifier shall conform to the following requirements: 1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day. 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air. 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2. 4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential. R403.13.1 Ducted dehumidifiers. Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements: 1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct. 2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct. 3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil. 4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6. **SECTION R404** ELECTRICAL POWER AND LIGHTING SYSTEMS R404.1 Lighting equipment (Mandatory). All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt. R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights.

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## Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

#### SECTION R405 SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE)

R405.2 Mandatory requirements. Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6, except site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.
<b>R405.2.1 Ceiling insulation.</b> Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.
R405.2.2 Building air leakage testing. Building or dwelling air leakage testing shall be in accordance with Sections R402.4 through R402.4.1.2. If an air leakage rate below seven air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) is specified for the proposed design, testing shall verify the air leakage rate does not exceed the air leakage rate of the proposed design instead of seven air changes per hour.
R405.2.3 Duct air leakage testing. In cases where duct air leakage lower than the default Qn to outside of 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is specified for the proposed design, testing in accordance with Section R403.3.2 shall verify a duct air leakage rate not exceeding the leakage rate of the proposed design. Otherwise, in accordance with Section R403.3.3, duct testing is not mandatory for buildings complying by Section R405.
SECTION R406
ENERGY RATING INDEX
COMPLIANCE ALTERNATIVE
R406.2 Mandatory requirements. Compliance with this section requires that the provisions identified in Sections R401 through R404 labeled as "mandatory" and Section R403.5.3 of the 2015 International Energy Conservation Code be met. For buildings that do not utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. For buildings that utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.
<b>Exception:</b> Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.
R406.2.1 Site-wrapped supply ducts. Site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.

#### 2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1ª

Project Name: Habitat for Humanity House 241 TBDLocust Pass Builder Name:

Street:

**TBD Locust Pass** 

City, State, Zip:

Permit Office: Marion

Ocala, FL, 34472

Permit Number:

Owner:

Jurisdiction: 521400

**Design Location:** 

FL, Ocala

County: Marion(Florida Climate Zone 2)

Doolgii Looddoii.	1 E, Coald County	y. Wanon(Florida Cilmate Zone 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	. Air-permeable insulation shall not be used as a sealing material.	ਹੋ
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum  Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated.  All concealed openings into the box, housing, or enclosure shall be sealed.  The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier.  Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids voids between fire sprinkler cover plates and walls or ceilings.		
	tion of log walls shall be in accordance with the previouse of ICC 4		

# Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction: 521400		Permit #:	
Job Information			
Builder:	Community:	Lot:	NA
Address: TBD Locust Pass			
City: Ocala	State: F	L Zip: 34	1472
Air Leakage Test Results	Passing results must meet either	the Performance, Prescriptive,	or ERI Method
PERFORMANCE or ERI METHOD the selected ACH(50) value, as shown or	illding or dwelling unit shall be tested ar 0.2 inch w.g. (50 Pascals) in Climate Zon-The building or dwelling unit shall be to Form R405-2023 (Performance) or R4 on Form R405-2023-Energy Calc (Penders)	ones 1 and 2.  tested and verified as having an air 106-2023 (ERI), section labeled as j	leakage rate of not exceeding
PASS	= g Volume ACH(50) n 3, Mechanical Ventilation installat g department.	Retrieved from	lating building volume: m architectural plans e calculated ed and calculated
R402.4.1.2 Testing. The building or dwelliper hour in Climate Zones 1 and 2, and the than three air changes per hour shall be pand Section M1507.3 if the Florida Buildin reported at a pressure of 0.2 inch w.g. (50 Florida Statues, or individuals licensed as results of the test shall be signed by the parter creation of all penetrations of the build During testing:  1. Exterior windows and doors, fireplace a control measures.  2. Dampers including exhaust, intake, malter measures.  3. Interior doors, if installed at the time of the 4. Exterior doors for continuous ventilations of the Heating and cooling systems, if installed at the time of the cooling systems, if installed at the time of the supply and return registers, if installed at the time of the supply and return registers, if installed at the time of the test and the time of the infiltration volume and calculating the attention to the supplementary of the supplementary of the test and the the infiltration volume and calculating the supplementary of the supplementary o	ree air changes per hour in Climate Zor rovided with whole-house mechanical varieties of the conducted list of the conducted list of the conducted list of the conducted list of the conducting the test and provided to a story conducting the test, shall be closed, but not keep air, back draft and flue dampers so the test, shall be open.  If yet so yet list of the test, shall be turned at the time of the test, shall be fully open the test of the test, shall be fully open the volume of the attic shall be added to	nes 3 through 8. Dwelling units with ventilation in accordance with Section onducted in accordance with ANSI/I by either individuals as defined in S r (i) or an approved third party. A wr o the code official. Testing shall be p sealed, beyond the intended weath hall be closed, but not sealed beyon shall be closed and sealed. off. n. nd hatches between the conditioned	an air leakage rate less on R403.6.1 of this code RESNET/ICC 380 and section 553.993(5) or (7), ritten report of the performed at any time restripping or other infiltration and intended infiltration control
Testing Company			
Company Name: I hereby verify that the above Air Leakage requirements according to the compliance		Phone: 23 8th Edition Florida Building Code	Energy Conservation
Signature of Tester:		Date of Test:	
Printed Name of Tester:			
License/Certification#:	lss	suing Authority:	



#### **Building Analysis**

Entire House

**Habitat for Humanity** 

Job: EC:9146868 Date: April 5th, 2024

By: Energycalcs.net

Energycalcs.net 267 deleon road, Debary, FL 32713 Phone: 386-775-0908 Email: Info@energycalcs.net

#### **Project Information**

For:

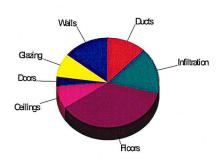
House 241

Locust Pass, Ocala, FL 34472

		Design Co	onditions		A. 医特别性
Location: Ocala, FL, US Elevation: 87 ft Latitude: 29°N			Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%)	<b>Heating</b> 70 36 50	<b>Cooling</b> 75 16 50
Outdoor: Drybulb (°F)	Heating	Cooling	Moisture difference (gr/lb)	31.8	44.4
Diybuib ( F) Dailyrange (°F) Wet bulb (°F) Wind speed (mph)	34 - - 15.0	91 17 (M) 76 7.5	Infiltration:  Method  Construction quality  Fireplaces	Simplified Average 0	

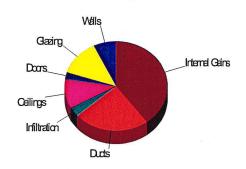
#### Heating

Component	Btuh/ft²	Btuh	% of load
Walls Glazing Doors Ceilings Floors Infiltration Ducts	2.4 11.9 14.0 1.2 5.2 2.4	2328 1342 564 1306 5862 2686 1948	14.5 8.4 3.5 8.1 36.6 16.7 12.1
Piping Humidification Ventilation Adjustments <b>Total</b>		0 0 0 1 <b>6036</b>	0 0 1 <b>00.0</b>



#### Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.4	1303	7.2
Glazing	20.7	2344	12.9
Doors	11.4	459	2.5
Ceilings	1.7	1914	10.5
Floors	0	0	0
Infiltration	0.6	625	3.4
Ducts		4304	23.7
Ventilation		0	0
Internal gains		7220	39.7
Blower		0	0
Adjustments		0	1
Total		18169	100.0



Latent Cooling Load = 2691 Btuh Overall U-value = 0.094 Btuh/ft²-°F, Window / Floor Area = 10.0 %

Data entries checked.



Job: EC:9146868 Date: April 5th, 2024 By: Energycalcs.net

**Summer Design Conditions** 

Sensible Cooling Equipment Load Sizing

Cooling Equipment Summary

Energycalcs.net 267 deleon road, Debary, FL 32713 Phone: 386-775-0908 Email: Info@energycalcs.net

#### Project Information

For:

House 241

Locust Pass, Ocala, FL 34472

Notes:

#### **Design Information**

Weather: Ocala, FL, US

#### **Winter Design Conditions**

Outside db Inside db Design TD	side db 70 °F Insider Sign TD 36 °F Des		91 °F 75 °F 16 °F M
		Daily range Relative humidity	50 %
		Moisture difference	44 ar/lb

#### **Heating Summary**

Structure Ducts (R-6.0) Central vent (0 cfm) (none)		Btuh Btuh Btuh	Structure Ducts (R-6.0) Central vent (0 cfm) (none)	13865 4304 0	
Humidification	0	Btuh Btuh	Blower	0	Btuh
Piping Equipment load	16036		Use manufacturer's data Rate/swing multiplier	y 1.00	
Infiltration			Equipment sensible load	18169	Btuh

#### Infiltration

Method Construction quality		Simplified Average	Latent Cooling Equipme	Latent Cooling Equipment Load Sizing		
Fireplaces		0	Structure	1847	Btuh	
			Ducts	844	Btuh	
			Central vent (0 cfm)	0	Btuh	
	Heating	Cooling	(none)			
Area (ft²)	1134	1134	Equipment latent load	2691	Btuh	
Volume (ft³)	9072	9072				
Air changes/hour	0.45	0.23	Equipment Total Load (Sen+Lat)	20859	Btuh	
Equiv. AVF (cfm)	68	35	Reg. total capacity at 0.84 SHR	1.8	ton	

#### **Heating Equipment Summary**

	•				• • • • • • • • • • • • • • • • • •
Make C Trade	GOODMAN		Make Trade	GOODMAN	
	9SZB402410 210318449		Cond Coil AHRI ref	GSZB402410 AMST24BU14 210318449	
Efficiency Heating input Heating outpu Temperature r Actual air flow Air flow factor Static pressure Space thermo Capacity balar	it rise '	7.5 HSPF2  22000 Btuh @ 47°F     0 °F     0 cfm     0 cfm/Btuh     0.40 in H2O	Efficiency Sensible co Latent cool Total coolir Actual air fl Air flow fac Static press	12.5 EER2 coling ling ng low tor	2, 15 SEER2 18984 Btuh 3616 Btuh 22600 Btuh 790 cfm 0.043 cfm/Btuh 0.40 in H2O 0.87

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





#### **Manual S Compliance Report**

Entire House

**Habitat for Humanity** 

Energycalcs.net 267 deleon road, Debary, FL 32713 Phone: 386-775-0908 Email: Info@energycalcs.net

Job: EC:9146868 Date: April 5th, 2024 Energycalcs.net

#### Project Information

For:

House 241

Locust Pass, Ocala, FL 34472

#### Cooling Equipment

#### **Design Conditions**

Outdoor design DB: 91.4°F Sensible gain: 18169 Btuh Outdoor design WB: 75.7°F Latent gain: 2691 Btuh Indoor design DB: 75.0°F Total gain: 20859 Btuh

Indoor RH: 50% Estimated airflow: 790 cfm

#### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:

Split ASHP

Manufacturer:

**GOODMAN** 

Model: GSZB402410+AMST24BU14

Actual airflow: Sensible capacity: 790 cfm

19000 Btuh 3600 Btuh 105% of load 134% of load

Latent capacity:

Total capacity: 22600 108% of load SHR: 84% Btuh

#### **Heating Equipment**

#### **Design Conditions**

Outdoor design DB: Indoor design DB:

34.0°F 70.0°F

Heat loss:

16036 Btuh Entering coil DB:

Entering coil DB:

Entering coil WB:

70.0°F

76.7°F

63.3°F

#### Manufacturer's Performance Data at Actual Design Conditions

cfm

Btuh

Equipment type:

Split ASHP

Manufacturer:

**GOODMAN** 

Model: GSZB402410+AMST24BU14

Actual airflow: Output capacity: 0

22000

137% of load

Capacity balance:

0 °F 0 °F

Supplemental heat required:

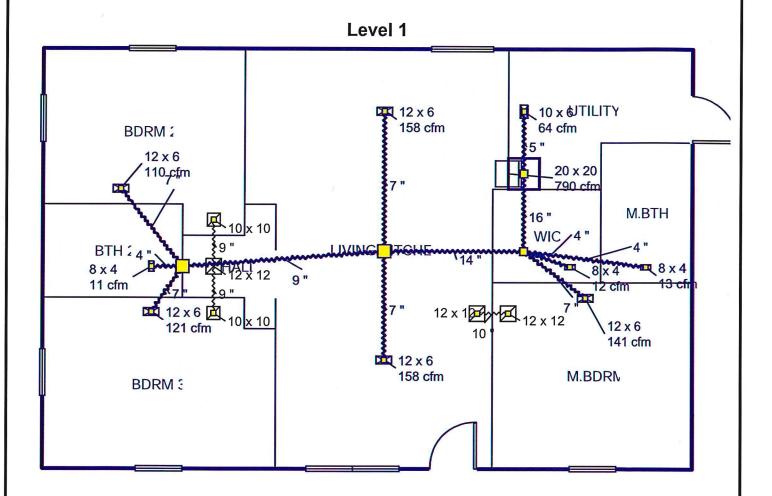
Btuh

Economic balance:

Meets all requirements of ACCA Manual S.

2024-Apr-05 11:51:51





# Job #: EC:9146868 Performed by Energycalcs.net for:

House 241 Locust Pass Ocala, FL 34472

#### **Habitat for Humanity**

Energycalcs.net 267 deleon road Debary, FL 32713 Phone: 386-775-0908 Info@energycalcs.net Scale: 1:71

Page 1 Right-Suite® Universal 2023 23.0.05 RSU15637 2024-Apr-05 11:51:57 ...ty House 241 TBD Locust Pass.rup



# wrightsoft Duct System Summary

Entire House

**Habitat for Humanity** 

Job: EC:9146868 Date: April 5th, 2024

Energycaics.net

Energycalcs.net 267 deleon road, Debary, FL 32713 Phone: 386-775-0908 Email: Info@energycalcs.net

#### **Project Information**

For:

House 241

Locust Pass, Ocala, FL 34472

External static pressure Pressure losses Available static pressure Supply / return available pressure Lowest friction rate Actual air flow Total effective length (TEL)

Heating 0.40 in H2O 0 in H2O 0.40 in H2O 0.200 / 0.200 in H2O 0.245 in/100ft 0 cfm

Cooling 0.40 in H2O 0 in H2O 0.40 in H2O 0.200 / 0.200 in H2O 0.245 in/100ft 790 cfm

163 ft

#### **Supply Branch Detail Table**

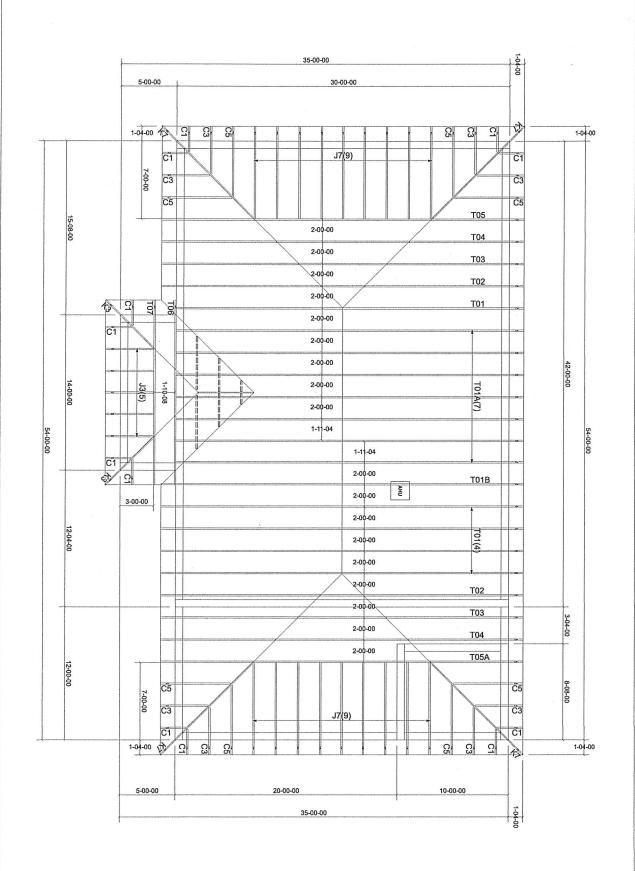
Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BDRM 2	С	2539	0	110	0.245	7.0	0x 0	VIFx	33.4	130.0	st3
BDRM 3	c	2792	0	121	0.249	7.0	0x 0	VIFx	30.6	130.0	st3
BTH 2	С	250	0	11	0.252	4.0	0x 0	VIFx	29.0	130.0	st3
LIVING/KITCHEN	c	3639	0	158	0.305	7.0	0x 0	VIFx	21.0	110.0	st2
LIVING/KITCHEN-A	C	3639	0	158	0.301	7.0	0x 0	VIFx	23.0	110.0	st2
M,BDRM	l c	3248	0	141	0.400	7.0	0x 0	VIFx	10.0	90.0	st1
M.BTH	l c	300	ol	13	0.388	4.0	0x 0	VIFx	13.1	90.0	st1
UTILITY	c	1474	ol	64	0.541	5.0	0x 0	VIFx	4.0	70.0	
WIC	С	287	0	12	0.407	4.0	0x 0	VIFx	8.2	90.0	st1

#### **Supply Trunk Detail Table**

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3 st2 st1	Peak AVF Peak AVF Peak AVF	0 0 0	243 559 726	0.245 0.245 0.245	549 523 520	9.0 14.0 16.0	0 x 0 0 x 0 0 x 0	VinIFIx VinIFIx VinIFIx	st2 st1

#### **Return Branch Detail Table**

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x 0	0	790	0	0	0	0	0x 0		VIFx	





200 East Main Street Leesburg, FL 34748 Ph: 352-787-5334

Fx: 352-326-2404

Habitat for Humanity of Marion Co

Habitat House 241 Carport Right CMU

Kala Edwards

<sup>J∞ #</sup> 240929

4/10/2024

# Ro-Mac Lumber & Supply Inc. 200 East Main Street

200 East Main Street Leesburg FL 34748 Business: (352) 787-5334 www.romaclumber.com

#### Quotation

Job# 240929 status Quote Quote 04/10/2024

Customer

Habitat for Humanity of Marion Co 1321 SE 25th Loop Ocala FL 34471 Project

Habitat House 241 Carport Right CMU Locust Pass

-

Ocala FL 34472

Sales Rep. Roger Sandor
Designer Kala Edwards

Roof Loading 20-7-0-10

		Qty	TC Pitch	Span	тс	L-OH	L-Cant	L-Heel	Wt.
Label	Profile	Ply	BC Pitch	Height	вс	R-OH	R-Cant	R-Heel	Tot. Wt.
Group	:								
Т06		1 1-ply	5 /12	14-00-00 2-10-13	2 x 4 2 x 4	1-04-00 1-04-00	-	4-01 4-01	59 59
C1		12 1-ply	5 /12	1-00-00 1-03-07	2 x 4 2 x 4	1-04-00 -	-	4-01 9-01	5 65
C3		8 1-ply	5 /12	3-00-00 2-01-07	2 x 4 2 x 4	1-04-00 -	-	4-01 1-07-01	12 93
T05A		1 1-ply	5 /12	30-00-00 3-09-07	2 x 4 2 x 6	1-04-00 1-04-00		4-01 4-01	161 161
T04		2 1-ply	5 /12	30-00-00 4-07-07	2 x 4 2 x 4	1-04-00 1-04-00		4-01 4-01	146 292
Т03		2 1-ply	5 /12	30-00-00 5-05-07	2 x 4 2 x 4	1-04-00 1-04-00	-	4-01 4-01	145 289
T02		2 1-ply	5 /12	30-00-00 6-03-07	2 x 4 2 x 4	1-04-00 1-04-00	-	4-01 4-01	150 299
K7		4 1-ply	3.54 /12	9-10-13 3-09-05	2 x 4 2 x 4	1-10-10 -	•	3-13 3-02-13	41 165
J7		18 1-ply	5 /12	7-00-00 3-09-07	2 x 4 2 x 4	1-04-00 -	-	4-01 3-03-01	24 432
C5		8 1-ply	5 /12	5-00-00 2-11-07	2 x 4 2 x 4	1-04-00 -	-	4-01 2-05-01	18 143
T05		1 1-ply	5 /12	30-00-00 3-09-07	2 x 4 2 x 6	1-04-00 1-04-00	-	4-01 4-01	161 161
T01		5 1-ply	5 /12	30-00-00 7-01-07	2 x 4 2 x 4	1-04-00 1-04-00	-	4-01 4-01	139 693
T01B		1 1-ply	5 /12	30-00-00 7-01-07	2 x 4 2 x 4	1-04-00 1-04-00	-	4-01 4-01	166 166
T01A		7 1-ply	5 /12	30-00-00 7-01-07	2 x 4 2 x 4	1-04-00 -	-	4-01 4-01	136 955

Reference

Habitat for Humanity of Marion Co

Project
Habitat House 241 Carport Right CMU

240929

1		Qty	TC Pitch	Span	TC	L-OH	L-Cant	L-Heel	Wt.
Label	Profile	Ply	BC Pitch	Height	ВС	R-OH	R-Cant	R-Heel	Tot. Wt.
Т07		1 1-ply	5 /12	14-00-00 2-01-07	2 x 4 2 x 4	1-04-00 1-04-00	-	4-01 4-01	63 63
К3		2 1-ply	3.54 /12	4-02-15 2-01-05	2 x 4 2 x 4	1-10-10 -	- -	3-13 1-06-13	16 32
J3		5 1-ply	5 /12	3-00-00 2-01-07	2 x 4 2 x 4	1-04-00 -	- -	4-01 1-07-01	12 58
	Roof Truss Totals:								

#### **Ancillary Items**

QTY	TYPE	DESCRIPTION	LENGTH	LABEL	
2	Dimension Lumber	2x6 SP No.2	16-00-00	2x6x16 SP No.2	
1	Dimension Lumber	2x8 SP No.2	16-00-00	2x8x16 SP No.2	