FRONT ELEVATION

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

REAR ELEVATION

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

REVISIONS SCHEDULE	
PROPOSAL	Jan. 18th, 2024
REVISIONS	June 14th, 2024

CUSTOM HOME FOR:

BOOTLE RESIDENCE

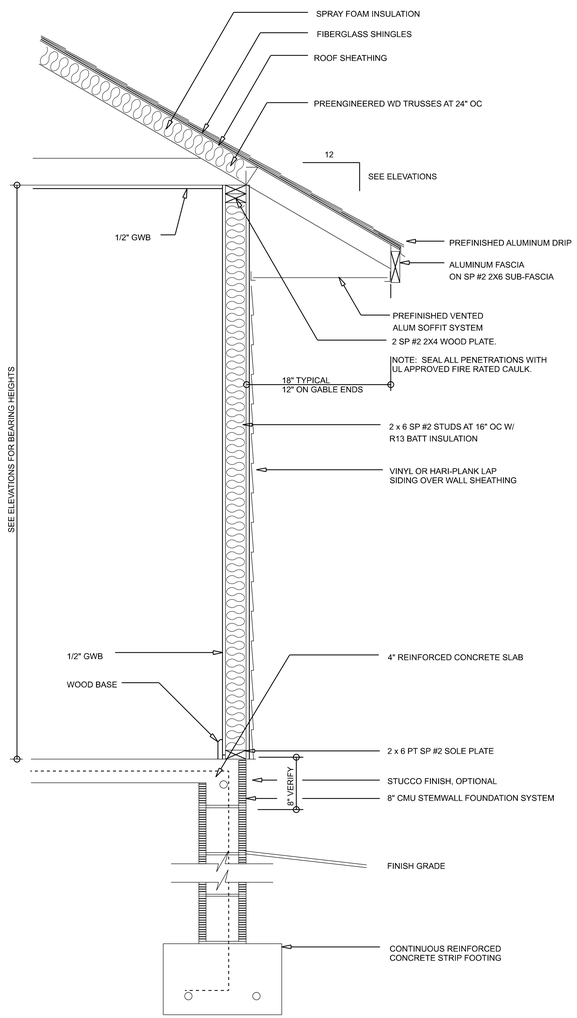
COLUMBIA COUNTY, FL

RIDGEPOINT DESIGN
560 SW ARLINGTON BLVD. STE. 101, LAKE CITY, FL 32025
P: 386-288-1158
E: RIDGEPOINTDESIGN@GMAIL.COM

SHEET NUMBER

A.1

OF 8 SHEETS

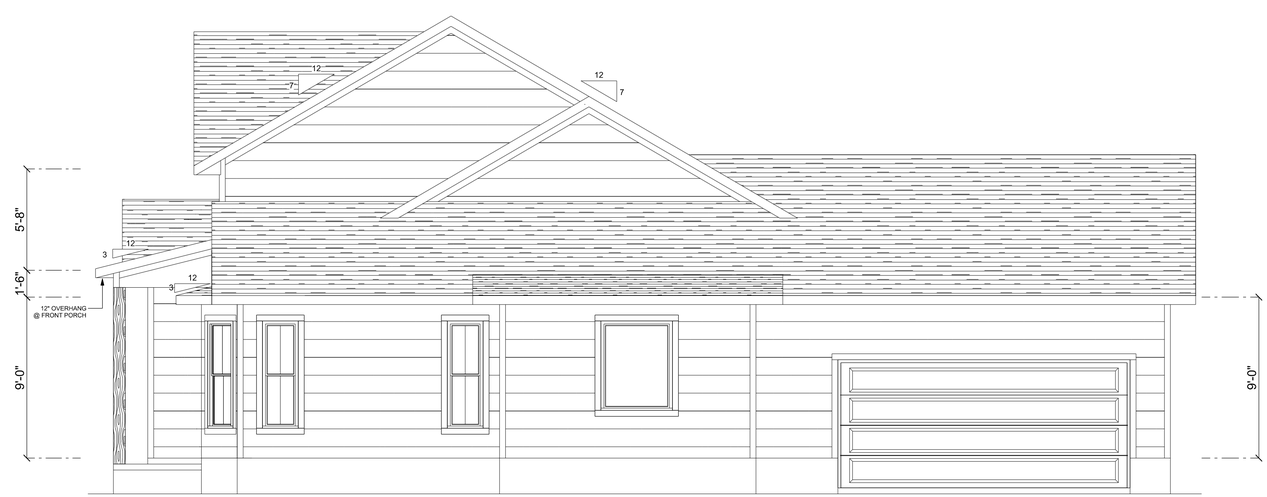


TYPICAL WALL SECTION

SCALE: 1" = 1'- 0"

LEFT ELEVATION

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



RIGHT ELEVATION

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

REVISIONS SCHEDULE

PROPOSAL	Jan. 18th, 2024
REVISIONS	June 14th, 2024

CUSTOM HOME FOR:

BOOTLE RESIDENCE

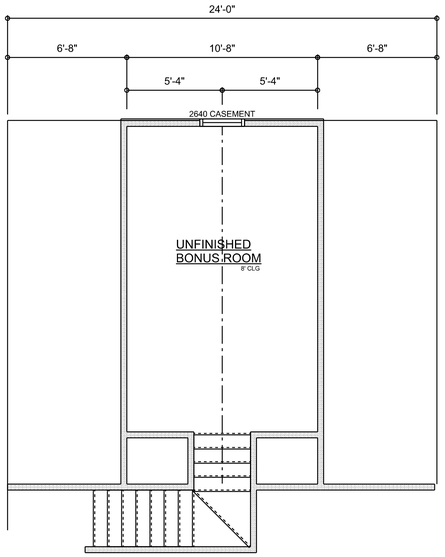
COLUMBIA COUNTY, FL

RIDGEPOINT DESIGN
564 SW ARLINGTON BLVD. STE. 101, LAKE CITY, FL 32025
P: 386-288-1168
E: RIDGEPOINTDESIGN@GMAIL.COM

SHEET NUMBER

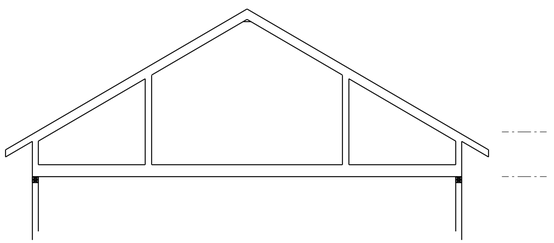
A.2

OF 8 SHEETS



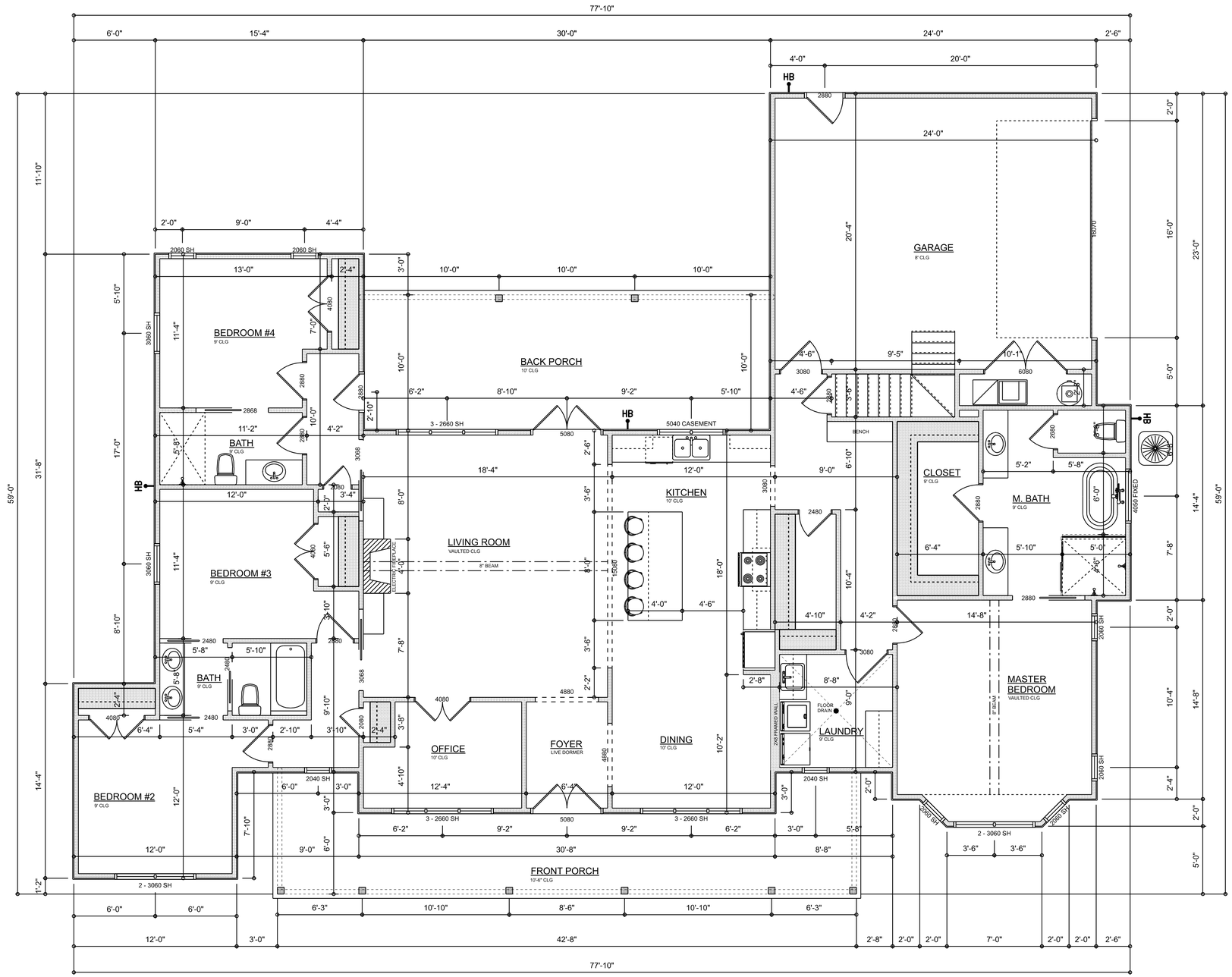
UNFINISHED BONUS ROOM

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



PROPOSED BONUS TRUSS

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



DIMENSIONED FLOOR PLAN

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

Garage fire separations shall comply with the following:

1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 1/2-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch Type X gypsum board or equivalent. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors, or solid or honeycomb core steel doors not less than 13/8 inches (34.9 mm) thick, or doors in compliance with Section 715.3.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.

2. Ducts in a private garage and ducts penetrating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a minimum 0.019-inch (0.48 mm) sheet steel and shall have no openings into the garage.

3. A separation is not required between a Group R-3 and U carport provided the carport is entirely open on two or more sides and there are not enclosed areas above.

4. When installing an attic access and/or pull-down stair unit in the garage, devise shall have a minimum 20 min. fire rating.

AREA SUMMARY

LIVING	2,328	S.F.
ENTRY PORCH	274	S.F.
REAR PORCH	298	S.F.
GARAGE	525	S.F.
TOTAL AREA	3,425	S.F.

REVISIONS SCHEDULE	
PROPOSAL	Jan. 18th, 2024
REVISIONS	June 14th, 2024

CUSTOM HOME FOR:
BOOTLE RESIDENCE
COLUMBIA COUNTY, FL

RIDGEPOINT DESIGN
560 SW ARLINGTON BLVD. STE 101, LAKE CITY, FL 32025
P: 386-288-1188
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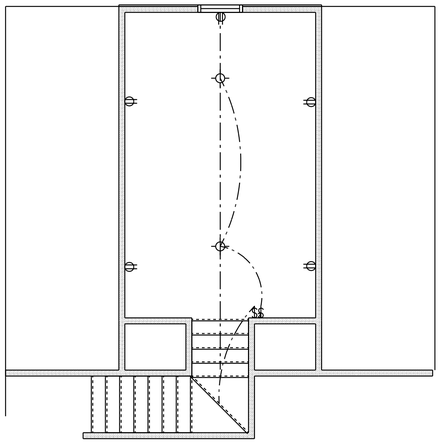
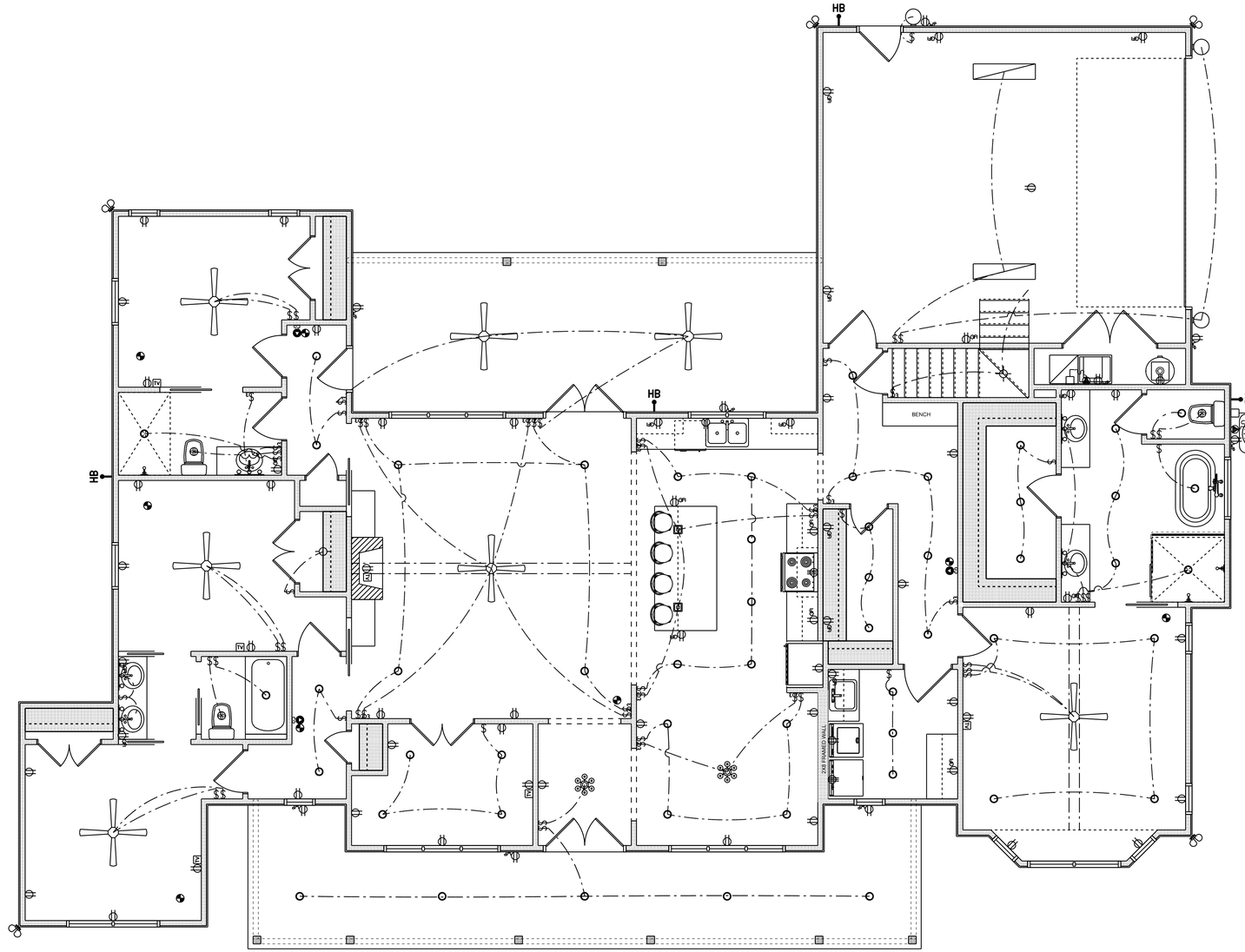
SHEET NUMBER
A.3
OF 8 SHEETS





ELECTRICAL LEGEND

ELECTRICAL	COUNT	SYMBOL
CEILING FAN	7	
CAN LIGHT 6inch	53	
CHANDELIER	2	
LED CEILING LIGHT 1x4	2	
PENDANT LIGHT	2	
EXTERIOR SCONCE	3	
MOTION SECURITY LIGHT	5	
AC DISCONNECT	2	
CABLE TV OUTLET	6	
CARBON DETECTOR	3	
EXHAUST FAN	3	
OUTLET	49	
OUTLET 220v	3	
OUTLET GFI	20	
OUTLET WP	9	
SMOKE DETECTOR	8	
STANDARD LIGHT	4	
SWITCH	33	
SWITCH 3 WAY	27	
VANITY BAR LIGHT - SMALL	5	

ELECTRICAL PLAN NOTES:

INSTALLATION SHALL BE PER LATEST NAT'L ELECTRIC CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS

CONSULT WITH THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED

ALL SMOKE DETECTORS SHALL BE 120v W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr. DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE

LOCATIONS/ROUTING / DEPTH, RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.

CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY ALL RECEPTICALS, NOT OTHERWISE NOTED, SHALL BE ARC FAULT INTERRUPTER TYPE, EXCEPT DEDICATED OUTLETS

ALL RECEPTICALS IN WET AREAS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI)

ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUD FAULT INTERRUPTER TYPE (WP/GFI)

ELECTRICAL PLAN

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

REVISIONS SCHEDULE

PROPOSAL	Jan. 18th, 2024
REVISIONS	June 14th, 2024

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COLUMBIA COUNTY, FL

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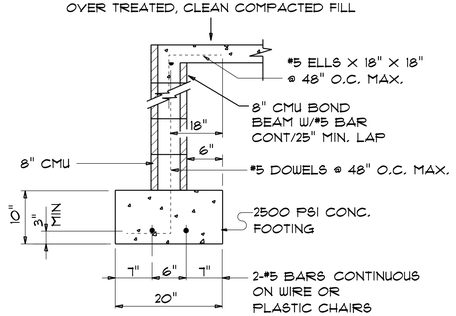
E: RIDGEPOINTDESIGN@GMAIL.COM

SHEET NUMBER
A.4
OF 8 SHEETS

CONCRETE / MASONRY / METALS GENERAL NOTES:

1. DESIGN SOIL BEARING PRESSURE: 1500 PSF.
2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PREFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS, BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 1500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 40 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YEILD STRESS = 85 KSI.
6. CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH, BOLTS SHALL BE ASTM A307 / GRADE 1 OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
11. 2x4 P/T WOOD SILL, CONT., ALL AROUND, W/ 5/8"~ A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 12-16" FROM EACH CORNER, EA. WAY, & WITHIN 8-12" FROM ALL WALL OPENINGS / ENDS - 1/2"~ A.B. W/ 2" SQ. WASHERS ALONG EACH RUN @ 48" O.C., MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.



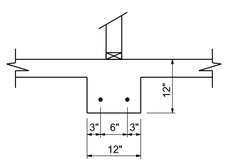
SECTION A
SCALE: 3/4" = 1'-0"
S.1

NOTE:
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - EA. LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

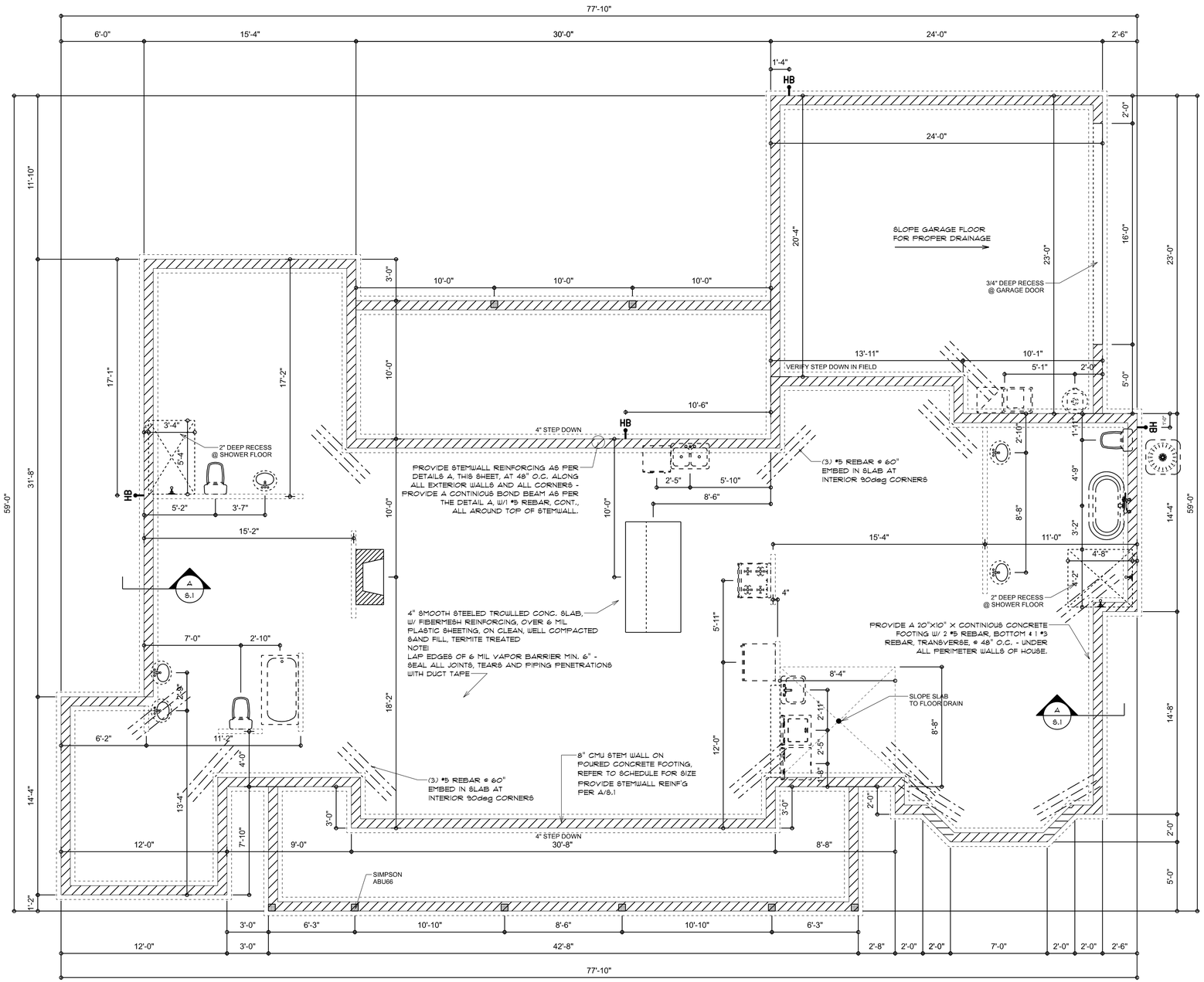
NOTE:
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING REPORT - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



INTERIOR BEARING FT'G
SCALE: 3/4" = 1'-0"
B
S.1

NOTE:
VERIFY INTERIOR BEARING WALLS WITH TRUSS MANUFACTURE DRAWINGS! USE DETAIL "B" THIS PAGE AT ALL INTERIOR BEARING LOC.



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

REVISIONS
June 14th, 2024

CUSTOM HOME FOR:
BOOTLE RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1756 NW Brown Rd.
Lake City, FL 32055

SHEET NUMBER
S.1
OF 4 SHEETS

AR0007005

WOOD STRUCTURAL NOTES

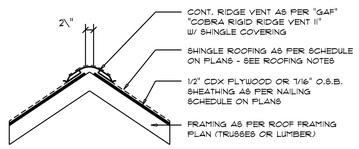
1. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY & PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".

2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER & SHALL BE SIGNED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".

3. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN Nr.2 HEM-FIR OR BETTER.

4. CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR BLACK METAL AS MANUFACTURED OR AS CALLED FOR IN THE PLANS AND BE OF A DESIGN SUITABLE FOR THE LOADS AND USE INTENDED. REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.

AREA OF ATTIC	REQ'D L.F. OF VENT	NET FREE AREA OF INTAKE
1600 SF	20 LF	410 SQ.IN.
1900 SF	24 LF	490 SQ.IN.
2200 SF	28 LF	570 SQ.IN.
2500 SF	32 LF	650 SQ.IN.
2800 SF	36 LF	730 SQ.IN.
3100 SF	40 LF	820 SQ.IN.
3600 SF	44 LF	900 SQ.IN.

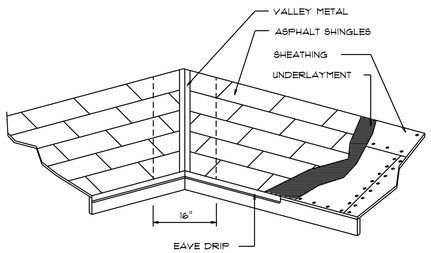


MIAMI/DADE PRODUCT APPROVAL REPORT: #98-0713.05

Ridge Vent DETAIL

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

B



VALLEY FLASHING

ROOFING METALS for FLASHING/ROOFING
MINIMUM THICKNESS REQUIREMENTS

MATERIAL	MINIMUM THICKNESS (In)	GAGE	WEIGHT (OZ.)
COPPER			16
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (ZINC COATED G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		40 20

Roofing/Flashing DETS.

SCALE: NONE

A

STANDARD HEADER SCHEDULE

0'-0" UP TO 6'-0" OPENINGS

DOUBLE 2x8 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON MSTA15 TOP AND 1 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 1 FULL HEIGHT STUDS EACH SIDE OF OPENING

6'-0" UP TO 9'-0" OPENINGS

DOUBLE 2x12 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON MSTA24 TOP AND 2 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 2 FULL HEIGHT STUDS EACH SIDE OF OPENING

9'-0" UP TO 16'-0" OPENINGS

DOUBLE 2x12 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON MSTA15 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

16'-0" GARAGE DOOR OPENINGS

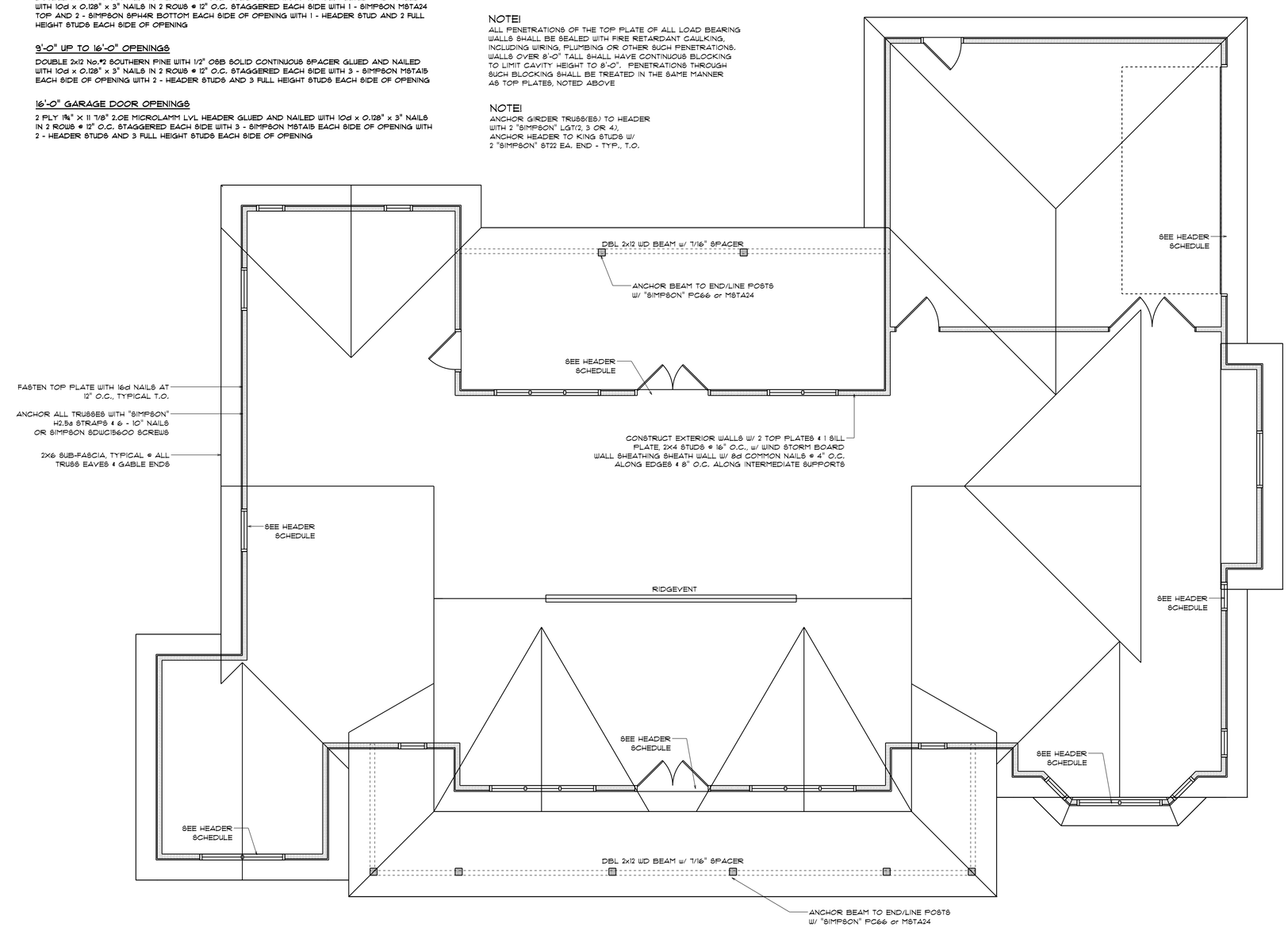
2 PLY 1¾" X 11 7/8" 2.0E MICRO=LAMM LVL HEADER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON MSTA15 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

NOTE!
SHEATH ROOF W/ PLYWOOD or OSB PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d NAILS - AS PER DETAIL ON SHEET S.4

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL PENETRATIONS OF THE TOP PLATE OF ALL LOAD BEARING WALLS SHALL BE SEALED WITH FIRE RETARDANT CAULKING, INCLUDING WIRING, PLUMBING OR OTHER SUCH PENETRATIONS. WALLS OVER 8'-0" TALL SHALL HAVE CONTINUOUS BLOCKING TO LIMIT CAVITY HEIGHT TO 8'-0". PENETRATIONS THROUGH SUCH BLOCKING SHALL BE TREATED IN THE SAME MANNER AS TOP PLATES, NOTED ABOVE

NOTE!
ANCHOR GIRDER TRUSS(ES) TO HEADER WITH 2 "SIMPSON" LGT(2, 3 OR 4); ANCHOR HEADER TO KING STUDS W/ 2 "SIMPSON" ST22 EA. END - TYP., T.O.



ROOF FRAMING PLAN

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

GENERAL TRUSS NOTES:

1. TRUSSES SHALL BE DESIGNED BY A LICENSED ENGINEER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NATIONAL FOREST PRODUCTS ASSOCIATION" MANUAL FOR "STRESS RATED LUMBER AND IT'S CONNECTIONS", LATEST Ed., ALONG W/ THE "TRUSS PLATE INSTITUTE" SUGGESTED GUIDELINES FOR TEMPORARY AND PERMANENT BRACING, AND HANDLING OF TRUSSES. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETS, & TRUSS TO TRUSS CONNECTIONS.

2. TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.

3. FOLLOWING DEVELOPMENT OF TRUSS SHOP DRAWINGS, ADJUSTMENTS TO THE ANCHOR REQUIRMENTS MAY BE REQUIRED DEPENDING ON THE ENGINEERED GRAVITY AND WIND UPLIFT REQUIREMENTS OF TRUSSES OR GIRDERS. THE CONTRACTOR SHALL MAKE AVAILABLE A COMPLETE SET OF TRUSS SHOP DRAWINGS TO THE ARCHITECT FOR THE PURPOSE OF REVIEW OF LOADS IMPOSED ON THE BALANCE OF THE STRUCTURE. ANY SUCH REQUIRED CHANGE SHALL BE INCORPORATED INTO THE CONSTRUCTION OF THIS STRUCTURE.

ROOF PLAN NOTES

R-1 SEE ELEVATIONS FOR ROOF PITCH

R-2 ALL OVERHANG 18" (12" on gables) UNLESS OTHERWISE NOTED

R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SCHEDULE ON SD.3

R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PLATE AND HEEL HEIGHTS

R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

REVISIONS
June 14th, 2024

CUSTOM HOME FOR:
BOOTLE RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
758 NW Brown Rd.
Lake City, FL. 32055

SHEET NUMBER
S.2
OF 4 SHEETS

AR0007005

General Roofing NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE I, OR ASTM D 4869, TYPE I.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE THE SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

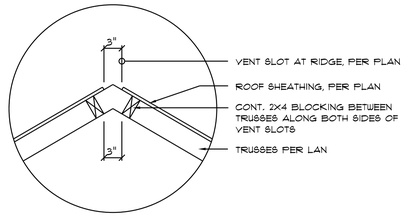
ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC P.A 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

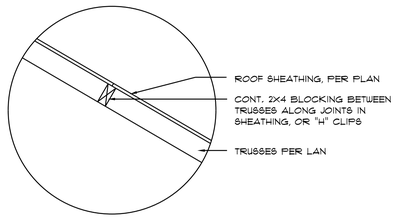
FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

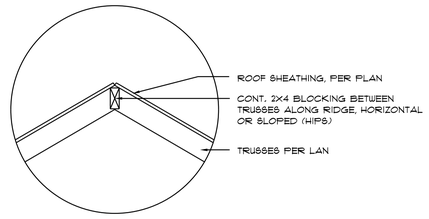
VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2.
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
   1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
   2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
   3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.



Vent DETAIL — A1
SCALE: NONE



Joint DETAIL — A2
SCALE: NONE



Ridge DETAIL — A3
SCALE: NONE

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUFR/MODEL	CAP.
TRUSS TO WALL:	SIMPSON H2.5a or SDWC15600	600#
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1785#
HEADER TO KING STUD(S):	SIMPSON ST22	1370#
PLATE TO STUD:	NO CONNECTION REQ. WHEN USING WINDSTORM BOARD	
STUD TO SILL:	NO CONNECTION REQ. WHEN USING WINDSTORM BOARD	
PORCH BEAM TO POST:	SIMPSON PC44 or (2) 5/8" LAG BOLTS EA. POST	1700#
PORCH POST TO FND.:	SIMPSON ABU44	2200#
MISC. JOINTS	SIMPSON A34	315#/240#

NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:
"SEMCO" PRODUCT APPROVAL:
MIAMI/DADE COUNTY REPORT #95-0818.15

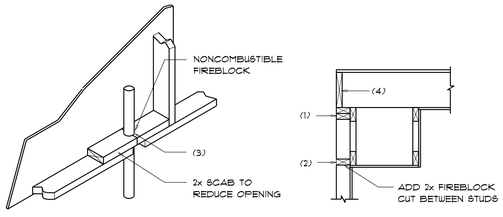
NOTE:
"SIMPSON" PRODUCT APPROVALS:
MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #99-0623.04
SBCCI NER-443, NER-393

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"
ROOF ANGLE 1° TO 27°

	ZONE	AREA	Vult 110 MPH	Vult 120 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 1° TO 27°	1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
	2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.7
	3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	3	20	11.4 /-47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
	3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 /-40.7	35.3 / -47.2
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	.82	1.21	1.47
20	.89	1.29	1.55
25	.94	1.35	1.61
30	1.00	1.40	1.66



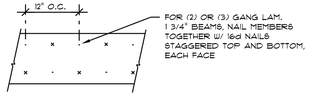
PENETRATIONS — SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

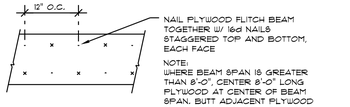
FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"
4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS — A
SCALE: NONE



MULTIPLE GANG LAM. DETAIL
NOT TO SCALE



PLYWOOD FLITCH BEAM DETAIL
NOT TO SCALE

B/U Beam DETAILS — B
SCALE: NONE

FLORIDA BUILDING CODE
Compliance Summary

TYPE OF CONSTRUCTION
Roof: Gable Construction, Wood Trusses @ 24" O.C.
Walls: 2x4 Wood Studs @ 16" O.C.
Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous Footer/Stem Wall

ROOF DECKING
Material: 1/2" CDX Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: .113 RING SHANKED Nails per schedule on sheet S.4

SHEARWALLS
Material: 7/16" O.S.B. WINDSTORM BOARD
Sheet Size: 48"x96" Sheets Placed Vertical
Fasteners: .113 COMMON Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstrut: Double Top Plate (S.Y.P.) W/16d Nails @ 12" O.C.
Wall Studs: 2x4 Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS
Truss Anchors: SIMPSON H2.5a @ Ea. Truss End (Typ. U.O.N.)
Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" O.C. Top & Bot.
Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bolt 6" from corner
Corner Hold-down Device: (1) HDSa @ each corner
Porch Column Base Connector: Simpson ABU66 @ each column
Porch Column to Beam Connector: Simpson MSTA20 (2 ea. side) or Simpson EPC66 or 2 - 5/8" thru bolts

FOOTINGS AND FOUNDATIONS
Footing: 20"x10" Cont. W/ 2 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.
Stemwall: 8" C.M.U. W/#5 Vertical Dowel @ 48" O.C.
Int. Footings: 12"x 12" x Cont. W/ 2 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2023 FLORIDA, 8th EDITION BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2. EXPOSURE: "B"

BASED ON ANSI/ASCE 7-22. 2023 FBC 1609-A WIND VELOCITY: V_{ult} = 130 MPH
V_{ASD} = 101 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . . 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
RESIDENTIAL . . . . . 40 PSF
BALCONIES . . . . . 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6",
EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3
8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4
9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6
12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY * LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

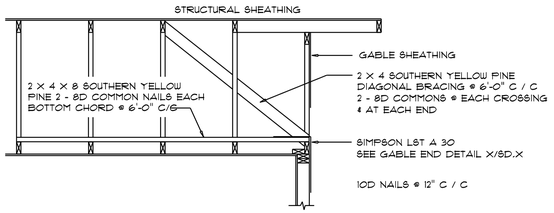
REVISIONS
June 14th, 2024

CUSTOM HOME FOR:
BOOTLE RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1356 NW Brown Rd.
Lake City, FL 32055

SHEET NUMBER
S.3
OF 4 SHEETS

AR0007005



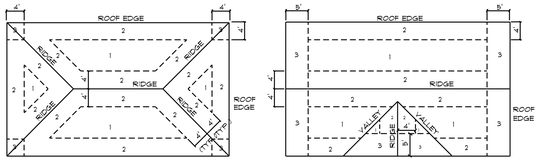
END WALL BRACING FOR CEILING DIAPHRAGM

NTS (ALTERNATIVE TO BALLOON FRAMING)

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

A

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/16 " O.S.B. OR 15/32 CDX	2 ½"x0.131" RING SHANK NAILS or 3"x0.120" RING SHANK NAILS	6 in. o.c. EDGE 6 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



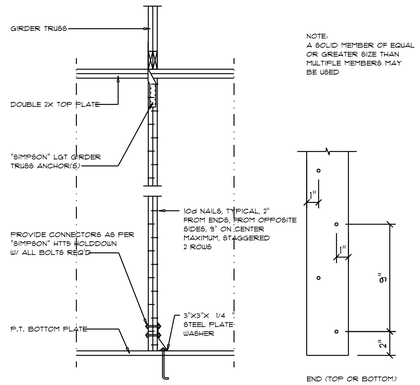
ROOF SHEATHING NAILING ZONES (HIP ROOF)

ROOF SHEATHING NAILING ZONES (GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

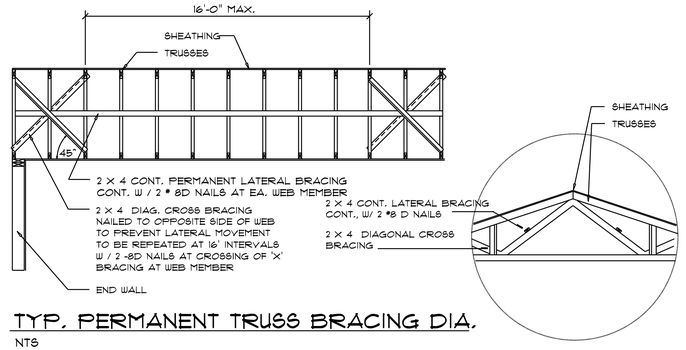
B



Girder Truss Column DET.

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

C



TYP. PERMANENT TRUSS BRACING DIA.

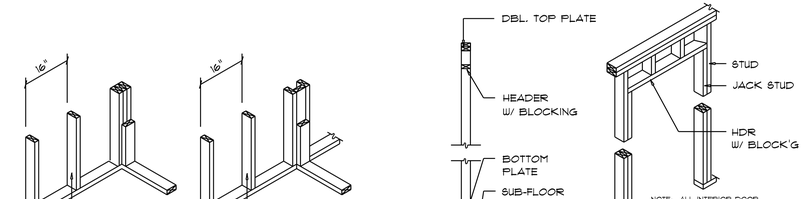
NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS

SCALE: AS NOTED

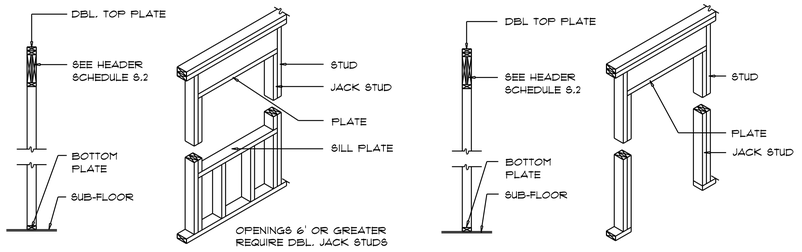
D



WALL CORNER

WALL INTERSECTION

NON-BEARING WALL HEADER



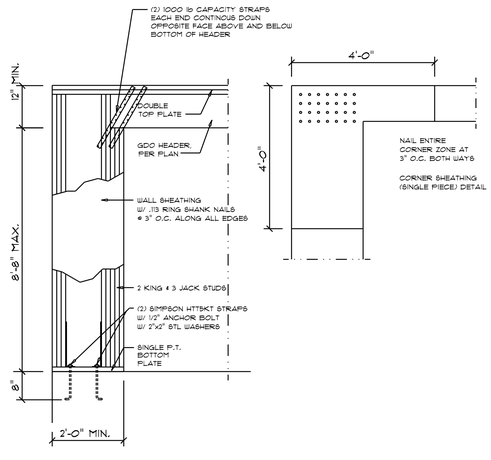
TYPICAL WINDOW HEADER

BEARING WALL HEADER

Wall Framing/Header DETAILS

SCALE: NONE

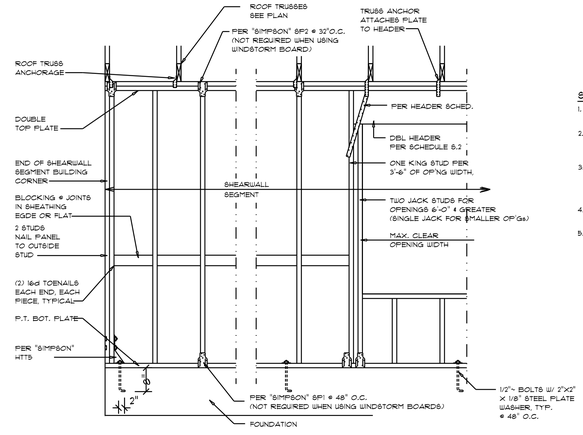
F



Garage End Wall DETAILS

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

G



SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" WINDSTORM BD INCLUDING AREAS ABOVE AND BELOW OPENINGS
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 4" O.C. EDGES AND 8" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 FOR 8'-0" WALLS (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3

Shear Wall DETAILS

SCALE: NONE

E

REVISIONS
June 14th, 2024

CUSTOM HOME FOR:
BOOTLE RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
M.C.A.R.B. Certified
1758 NW Brown Rd
Lake City, FL 32055

SHEET NUMBER
S.4
OF 4 SHEETS

AR0007005

FORM R405-2023

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 76

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

,,FL,

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		4
5. Is this a worst case?		No
6. Conditioned floor area above grade (ft²)		2328
Conditioned floor area below grade (ft²)		0

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.26	304.00 ft²
SHGC:	SHGC=0.20	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
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 ft²
SHGC(AVG):	N/A	

9. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R= 0.0	2328.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(2626.7 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	2350.00 ft²
b. Frame - Wood, Adjacent	R=13.0	276.67 ft²
c. N/A		
d. N/A		

11. Ceiling Types(2328.0 sqft.)	Insulation	Area
a. Single assembly, no ai (Unvented)	R=30.0	2328.00 ft²
b. N/A		
c. N/A		

12. Roof(Comp. Shingles, Unvent)	Deck	R=30.0	2695 ft²

13. Ducts, location & insulation level	R	ft²
a. Sup: Main, Ret: Main, AH: Garage	6	454
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	42.0	SEER2:14.30

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	42.0	HSPF2:7.50

16. Hot Water Systems	
a. Electric	Cap: 50 gallons
	EF: 0.920
b. Conservation features	
	None
17. Credits	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.

Builder Signature: _____ Date: _____

Address of New Home: City/FL Zip: ,FL,

*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.

Residential System Sizing Calculation

Summary

Project Title:
Bootle Residence

, FL

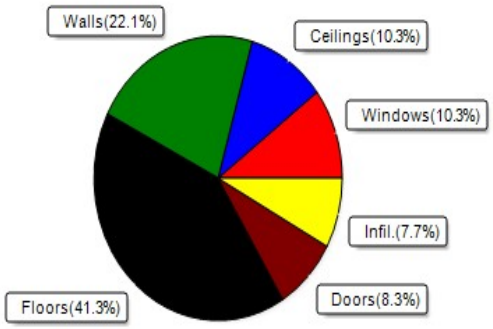
6/21/2024

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(100 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	**30760**	**Btuh**	**Total cooling load calculation**	**20966**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	136.5	42000	Sensible (SHR = 0.85)	198.7	35700
Heat Pump + Auxiliary(0.0kW)	136.5	42000	Latent	209.8	6300
			Total (Electric Heat Pump)	200.3	42000

WINTER CALCULATIONS

Winter Heating Load (for 2328 sqft)

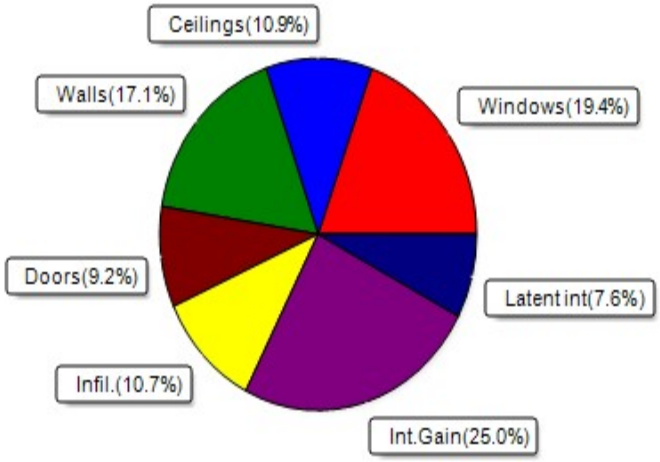
Load component			Load	
Window total	304	sqft	3162	Btuh
Wall total	2163	sqft	6801	Btuh
Door total	160	sqft	2560	Btuh
Ceiling total	2328	sqft	3166	Btuh
Floor total	2328	sqft	12697	Btuh
Infiltration	54	cfm	2374	Btuh
Duct loss			0	Btuh
Subtotal			**30760**	**Btuh**
Ventilation	Ex:0 cfm; Sup:0 cfm		0	Btuh
TOTAL HEAT LOSS			**30760**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2328 sqft)

Load component			Load	
Window total	304	sqft	4077	Btuh
Wall total	2163	sqft	3585	Btuh
Door total	160	sqft	1920	Btuh
Ceiling total	2328	sqft	2296	Btuh
Floor total			0	Btuh
Infiltration	41	cfm	846	Btuh
Internal gain			5240	Btuh
Duct gain			0	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0 cfm		0	Btuh
Blower Load			0	Btuh
Total sensible gain			**17963**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			1403	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**3003**	**Btuh**
TOTAL HEAT GAIN			**20966**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 6-21-24

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Bootle Residence

, FL

6/21/2024

Reference City: Gainesville, FL (Defaults)
Humidity difference: 51gr.

Temperature Difference: 19.0F(TMY3 99%)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Whole House

	Type*					Overhang		Window Area(sqft)			HTM		Load	
Window	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.20, 0.26		No	No	N	1.5ft	2.3ft	12.0	0.0	12.0	9	9	110	Btuh
2	2 NFRC	0.20, 0.26		No	No	N	1.5ft	2.3ft	8.0	0.0	8.0	9	9	73	Btuh
3	2 NFRC	0.20, 0.26		No	No	E	1.5ft	2.3ft	20.0	0.0	20.0	9	24	484	Btuh
4	2 NFRC	0.20, 0.26		No	No	E	1.5ft	2.3ft	30.0	0.0	30.0	9	24	727	Btuh
5	2 NFRC	0.20, 0.26		No	No	S	1.5ft	2.3ft	36.0	36.0	0.0	9	11	329	Btuh
6	2 NFRC	0.20, 0.26		No	No	S	1.5ft	2.3ft	8.0	8.0	0.0	9	11	73	Btuh
7	2 NFRC	0.20, 0.26		No	No	S	1.5ft	2.3ft	90.0	90.0	0.0	9	11	823	Btuh
8	2 NFRC	0.20, 0.26		No	No	S	1.5ft	2.3ft	8.0	8.0	0.0	9	11	73	Btuh
9	2 NFRC	0.20, 0.26		No	No	S	1.5ft	2.3ft	36.0	36.0	0.0	9	11	329	Btuh
10	2 NFRC	0.20, 0.26		No	No	W	1.5ft	2.3ft	36.0	0.0	36.0	9	24	872	Btuh
11	2 NFRC	0.20, 0.26		No	No	N	1.5ft	1.3ft	20.0	0.0	20.0	9	9	183	Btuh
	Window Total								304 (sqft)					4077	Btuh

Walls	Type	U-Value	R-Value	Area(sqft)	HTM	Load	
			Cav/Sheath				
1	Frame - Wood - Ext	0.08	19.0/0.0	136.7	1.7	226	Btuh
2	Frame - Wood - Ext	0.08	19.0/0.0	130.0	1.7	215	Btuh
3	Frame - Wood - Ext	0.08	19.0/0.0	180.7	1.7	299	Btuh
4	Frame - Wood - Adj	0.09	13.0/0.0	252.7	1.7	426	Btuh
5	Frame - Wood - Ext	0.08	19.0/0.0	241.7	1.7	400	Btuh
6	Frame - Wood - Ext	0.08	19.0/0.0	112.3	1.7	186	Btuh
7	Frame - Wood - Ext	0.08	19.0/0.0	20.0	1.7	33	Btuh
8	Frame - Wood - Ext	0.08	19.0/0.0	75.3	1.7	125	Btuh
9	Frame - Wood - Ext	0.08	19.0/0.0	70.0	1.7	116	Btuh
10	Frame - Wood - Ext	0.08	19.0/0.0	180.0	1.7	298	Btuh
11	Frame - Wood - Ext	0.08	19.0/0.0	30.0	1.7	50	Btuh
12	Frame - Wood - Ext	0.08	19.0/0.0	80.3	1.7	133	Btuh
13	Frame - Wood - Ext	0.08	19.0/0.0	78.3	1.7	130	Btuh
14	Frame - Wood - Ext	0.08	19.0/0.0	87.3	1.7	144	Btuh
15	Frame - Wood - Ext	0.08	19.0/0.0	146.7	1.7	243	Btuh
16	Frame - Wood - Ext	0.08	19.0/0.0	60.0	1.7	99	Btuh
17	Frame - Wood - Ext	0.08	19.0/0.0	280.7	1.7	464	Btuh
	Wall Total			2163 (sqft)		3585	Btuh

Doors	Type	Area (sqft)	HTM	Load	
1	Insulated - Exterior	96.0	12.0	1152	Btuh
2	Wood - Garage	24.0	12.0	288	Btuh
3	Insulated - Exterior	40.0	12.0	480	Btuh
	Door Total	160 (sqft)		1920	Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load	
1	SnglAsmb no airsp/DarkShingle	0.034	30.0/0.0	2328.0	0.99	2296	Btuh
	Ceiling Total			2328 (sqft)		2296	Btuh

Floors	Type	R-Value	Size	HTM	Load	
1	Slab On Grade	0.0	2328 (ft-perimeter)	0.0	0	Btuh
	Floor Total		2328.0 (sqft)		0	Btuh

	Envelope Subtotal:	11877 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Bootle Residence

Climate:FL_GAINESVILLE_REGIONAL_A

, FL

6/21/2024

Infiltration	Type		Average ACH		Volume(cuft)		Wall Ratio		CFM=	Load
	Natural		0.12		20952		1		40.6	846 Btuh
Internal gain		Occupants		Btuh/occupant				Appliance		Load
		8	X	230	+			3400		5240 Btuh
							Sensible Envelope Load:			17963 Btuh
Duct load	Extremely sealed, Supply(R6.0-Condi), Return(R6.0-Condi)						(DGM of 0.000)			0 Btuh
							Sensible Load All Zones			**17963 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Bootle Residence
Climate:FL_GAINESVILLE_REGIONAL_A

, FL

6/21/2024

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**17963 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**17963 Btuh**
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**17963 Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	1403 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3003 Btuh**
	TOTAL GAIN	**20966 Btuh**

EQUIPMENT

1. Central Unit	#	42000 Btuh

*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)

Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Bootle Residence
, FL Building Type: User

6/21/2024

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 °F (TMY3 99%)
Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Vinyl	0.26	N	12.0	10.4	125 Btuh
2	2, NFRC 0.20	Vinyl	0.26	N	8.0	10.4	83 Btuh
3	2, NFRC 0.20	Vinyl	0.26	E	20.0	10.4	208 Btuh
4	2, NFRC 0.20	Vinyl	0.26	E	30.0	10.4	312 Btuh
5	2, NFRC 0.20	Vinyl	0.26	S	36.0	10.4	374 Btuh
6	2, NFRC 0.20	Vinyl	0.26	S	8.0	10.4	83 Btuh
7	2, NFRC 0.20	Vinyl	0.26	S	90.0	10.4	936 Btuh
8	2, NFRC 0.20	Vinyl	0.26	S	8.0	10.4	83 Btuh
9	2, NFRC 0.20	Vinyl	0.26	S	36.0	10.4	374 Btuh
10	2, NFRC 0.20	Vinyl	0.26	W	36.0	10.4	374 Btuh
11	2, NFRC 0.20	Vinyl	0.26	N	20.0	10.4	208 Btuh
	Window Total				304.0(sqft)		3162 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	137	3.09	422 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	130	3.09	402 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	181	3.09	558 Btuh
4	Frame - Wood	- Adj	(0.089)	13.0/0.0	253	3.55	897 Btuh
5	Frame - Wood	- Ext	(0.077)	19.0/0.0	242	3.09	747 Btuh
6	Frame - Wood	- Ext	(0.077)	19.0/0.0	112	3.09	347 Btuh
7	Frame - Wood	- Ext	(0.077)	19.0/0.0	20	3.09	62 Btuh
8	Frame - Wood	- Ext	(0.077)	19.0/0.0	75	3.09	233 Btuh
9	Frame - Wood	- Ext	(0.077)	19.0/0.0	70	3.09	216 Btuh
10	Frame - Wood	- Ext	(0.077)	19.0/0.0	180	3.09	556 Btuh
11	Frame - Wood	- Ext	(0.077)	19.0/0.0	30	3.09	93 Btuh
12	Frame - Wood	- Ext	(0.077)	19.0/0.0	80	3.09	248 Btuh
13	Frame - Wood	- Ext	(0.077)	19.0/0.0	78	3.09	242 Btuh
14	Frame - Wood	- Ext	(0.077)	19.0/0.0	87	3.09	270 Btuh
15	Frame - Wood	- Ext	(0.077)	19.0/0.0	147	3.09	453 Btuh
16	Frame - Wood	- Ext	(0.077)	19.0/0.0	60	3.09	185 Btuh
17	Frame - Wood	- Ext	(0.077)	19.0/0.0	281	3.09	868 Btuh
	Wall Total				2163(sqft)		6801 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)		96	16.0	1536 Btuh
2	Wood - Garage,	n	(0.400)		24	16.0	384 Btuh
3	Insulated - Exterior,	n	(0.400)		40	16.0	640 Btuh
	Door Total				160(sqft)		2560Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Single as/D/Shing		(0.034)	30.0/0.0	2328	1.4	3166 Btuh
	Ceiling Total				2328(sqft)		3166Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Bootle Residence
, FL Building Type: User

6/21/2024

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	269.0 ft(perim.)	47.2	12697 Btuh
	Floor Total			2328 sqft		12697 Btuh
				Envelope Subtotal:		28385 Btuh
Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.16	20952	1.00	54.1	2374 Btuh
Duct load	Extremely sealed, R6.0, Supply(Con), Return(Con)			(DLM of 0.000)		0 Btuh
All Zones			**Sensible Subtotal All Zones**			**30760 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss		30760 Btuh
	Ventilation Sens. Heat Loss	(Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss		30760 Btuh

EQUIPMENT

1. Electric Heat Pump	#	42000 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)

Version 8

FORM R405-2023

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Bootle Residence	Builder Name:	
Street:		Permit Office:	
City, State, Zip:	, FL,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

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	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	2328
Conditioned floor area below grade (ft²)	0

7. Windows(304.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.26	304.00 ft²
SHGC:	SHGC=0.20	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
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 ft²
SHGC(AVG):	N/A	

9. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R= 0.0	2328.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(2626.7 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	2350.00 ft²
b. Frame - Wood, Adjacent	R=13.0	276.67 ft²
c. N/A		
d. N/A		

11. Ceiling Types(2328.0 sqft.)	Insulation	Area
a. Single assembly, no ai (Unvented)	R=30.0	2328.00 ft²
b. N/A		
c. N/A		

12. Roof(Comp. Shingles, Unvent) Deck	R=30.0	2695 ft²

13. Ducts, location & insulation level	R	ft²
a. Sup: Main, Ret: Main, AH: Garage	6	454
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	42.0	SEER2:14.30

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	42.0	HSPF2:7.50

16. Hot Water Systems	
a. Electric	Cap: 50 gallons
	EF: 0.920
b. Conservation features	None
17. Credits	Pstat

Glass/Floor Area: 0.131

Total Proposed Modified Loads: 48.05

Total Baseline Loads: 63.39

PASS

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: 6-21-24

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: _____

- 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.

- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

- 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 4.72 ACH50 (R402.4.1.2).

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Bootle Residence			Address type:	Street Address
Building Type:	User	Bedrooms:	4	Lot #:	---
Owner:		Conditioned Area:	2328	Block/SubDivision:	---
Builder Home ID:		Total Stories:	1	PlatBook:	---
Builder Name:		Worst Case:	No	Street:	
Permit Office:		Rotate Angle:	0	County:	Columbia
Jurisdiction:		Cross Ventilation:		City, State, Zip:	,
Family Type:	Detached	Whole House Fan:			FL,
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2024	Shielding:	Moderate/Rural		
Comment:					

CLIMATE

√	Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp Summer	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	2328	20952 cu ft

SPACES

√	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___	1	Main	2328	20952	Yes	8	4	Yes	Yes	Yes

FLOORS (Total Exposed Area = 2328 sq.ft.)

√	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	R-Value Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___	1	Slab-On-Grade Edge Ins	Main	269	2328 sqft	0	---	0.563	2 (ft)/0 (ft)	0.20	0.60	0.20

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	2695 ft²	680 ft²	Dark	N	0.92	No	0.9	No	30	30.26

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___	1	No attic	Unvented	0	2328 ft²	N	N

CEILING (Total Exposed Area = 2328 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	2328.0ft²	0.032	0.11	Wood

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 2627 sq.ft.)

√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Main	19.0	15.0	8	10.0	0	156.7	0.071		0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	19.0	13.0	0	10.0	0	130.0	0.071		0.23	0.75	0 %
___ 3	N	Exterior	Frame - Wood	Main	19.0	29.0	8	10.0	0	296.7	0.071		0.23	0.75	0 %
___ 4	N	Garage	Frame - Wood	Main	13.0	27.0	8	10.0	0	276.7	0.094		0.23	0.75	0 %
___ 5	E	Exterior	Frame - Wood	Main	19.0	29.0	2	10.0	0	291.7	0.071		0.23	0.75	0 %
___ 6	S	Exterior	Frame - Wood	Main	19.0	14.0	10	10.0	0	148.3	0.071		0.23	0.75	0 %
___ 7	W	Exterior	Frame - Wood	Main	19.0	2.0	0	10.0	0	20.0	0.071		0.23	0.75	0 %
___ 8	S	Exterior	Frame - Wood	Main	19.0	8.0	4	10.0	0	83.3	0.071		0.23	0.75	0 %
___ 9	E	Exterior	Frame - Wood	Main	19.0	7.0	0	10.0	0	70.0	0.071		0.23	0.75	0 %
___ 10	S	Exterior	Frame - Wood	Main	19.0	31.0	0	10.0	0	310.0	0.071		0.23	0.75	0 %
___ 11	W	Exterior	Frame - Wood	Main	19.0	3.0	0	10.0	0	30.0	0.071		0.23	0.75	0 %
___ 12	S	Exterior	Frame - Wood	Main	19.0	8.0	10	10.0	0	88.3	0.071		0.23	0.75	0 %
___ 13	E	Exterior	Frame - Wood	Main	19.0	7.0	10	10.0	0	78.3	0.071		0.23	0.75	0 %
___ 14	S	Exterior	Frame - Wood	Main	19.0	12.0	4	10.0	0	123.3	0.071		0.23	0.75	0 %
___ 15	W	Exterior	Frame - Wood	Main	19.0	14.0	8	10.0	0	146.7	0.071		0.23	0.75	0 %
___ 16	N	Exterior	Frame - Wood	Main	19.0	6.0	0	10.0	0	60.0	0.071		0.23	0.75	0 %
___ 17	W	Exterior	Frame - Wood	Main	19.0	31.0	8	10.0	0	316.7	0.071		0.23	0.75	0 %

DOORS (Total Exposed Area = 160 sq.ft.)

√ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	N	Exterior	Insulated	Main	None	0.40	12.00	0	8.00	0	96.0ft²
___ 2	N	Garage	Wood	Main	None	0.40	3.00	0	8.00	0	24.0ft²
___ 3	S	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²

WINDOWS (Total Exposed Area = 304 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	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	12.0	1	3.00	4.00	1.5	2.3	None	None
___ 2	N	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	2	1.00	4.00	1.5	2.3	None	None
___ 3	E	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	1	4.00	5.00	1.5	2.3	None	None
___ 4	E	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None
___ 5	S	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	2.3	None	None
___ 6	S	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	2.3	None	None
___ 7	S	10	Vinyl	Low-E Double	Y	0.26	0.20	N	N	90.0	6	2.50	6.00	1.5	2.3	None	None
___ 8	S	12	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	2.3	None	None
___ 9	S	14	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	2.3	None	None
___ 10	W	17	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	2.3	None	None
___ 11	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	2	2.00	5.00	1.5	1.3	None	None

INFILTRATION

√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00027	1647	90.36	169.64	0.0969	4.7	All	20952 cu ft

GARAGE

√ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	495 ft²	495 ft²	64 ft	9 ft	1

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INPUT SUMMARY CHECKLIST REPORT

MASS

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

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: 7.50	42.0		0.00	0.00	0.00	sys#1	1

COOLING SYSTEM

√	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___	1	Central Unit	None/Single		SEER2:14.3	42.0	1260	0.85	sys#1	1

HOT WATER SYSTEM

√	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___	1	Electric	None	Garage	0.92 (0.92)	50.00 gal	70 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

DUCTS

√	Duct #	Supply Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat	HVAC # Cool
___	1	Main	6.0	454 ft²	Main	6.0	114 ft²	Prop. Leak Free	Garage	---	---	0.030	0.50	1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans: N

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

√	Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours 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