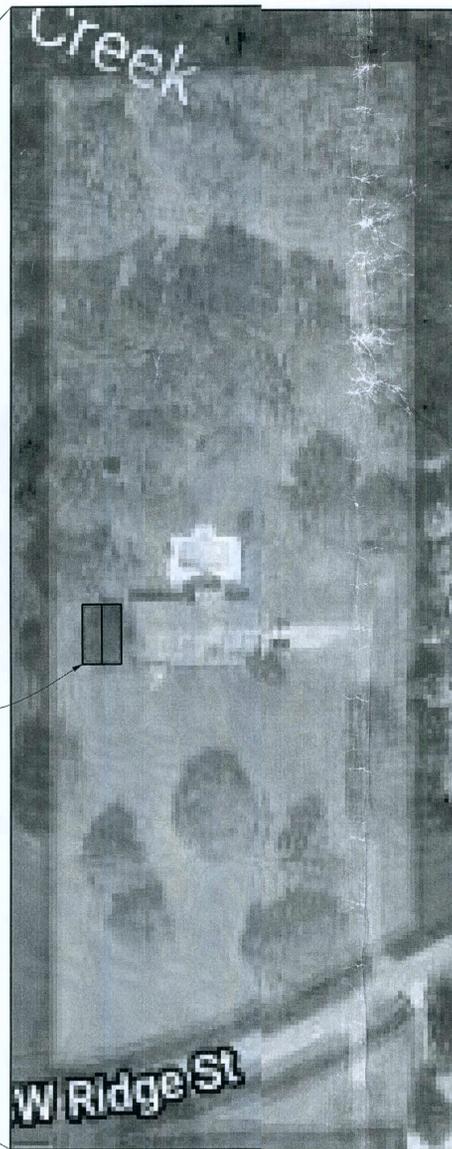
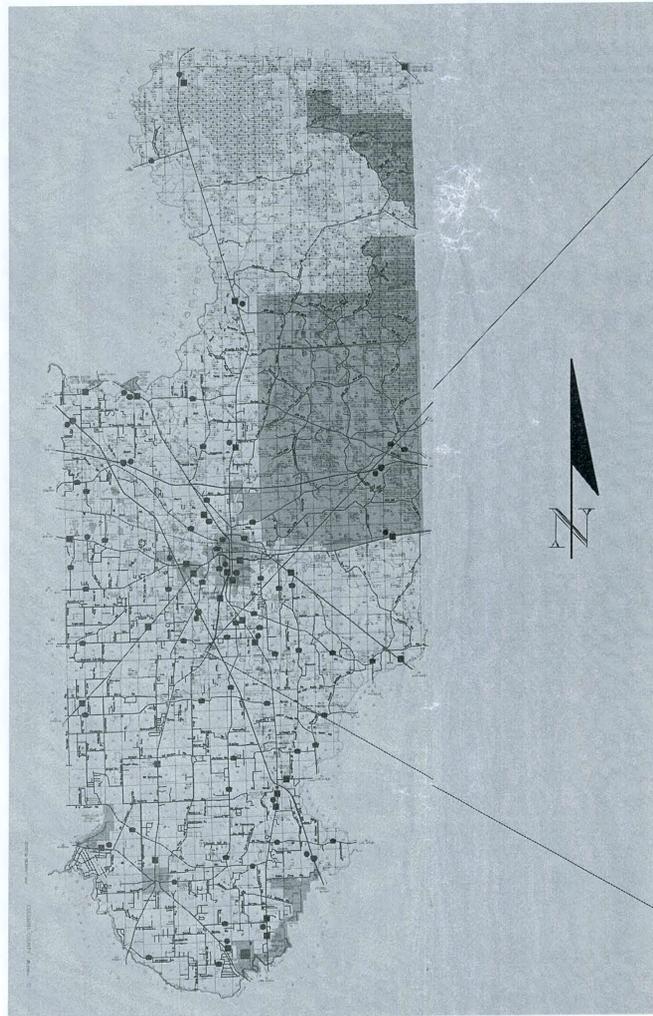


TILLOTSON RESIDENCE

361 SW RIDGE STREET

COLUMBIA COUNTY, FL 32024



PROPOSED
STRUCTURE

PLAN SHEET INDEX

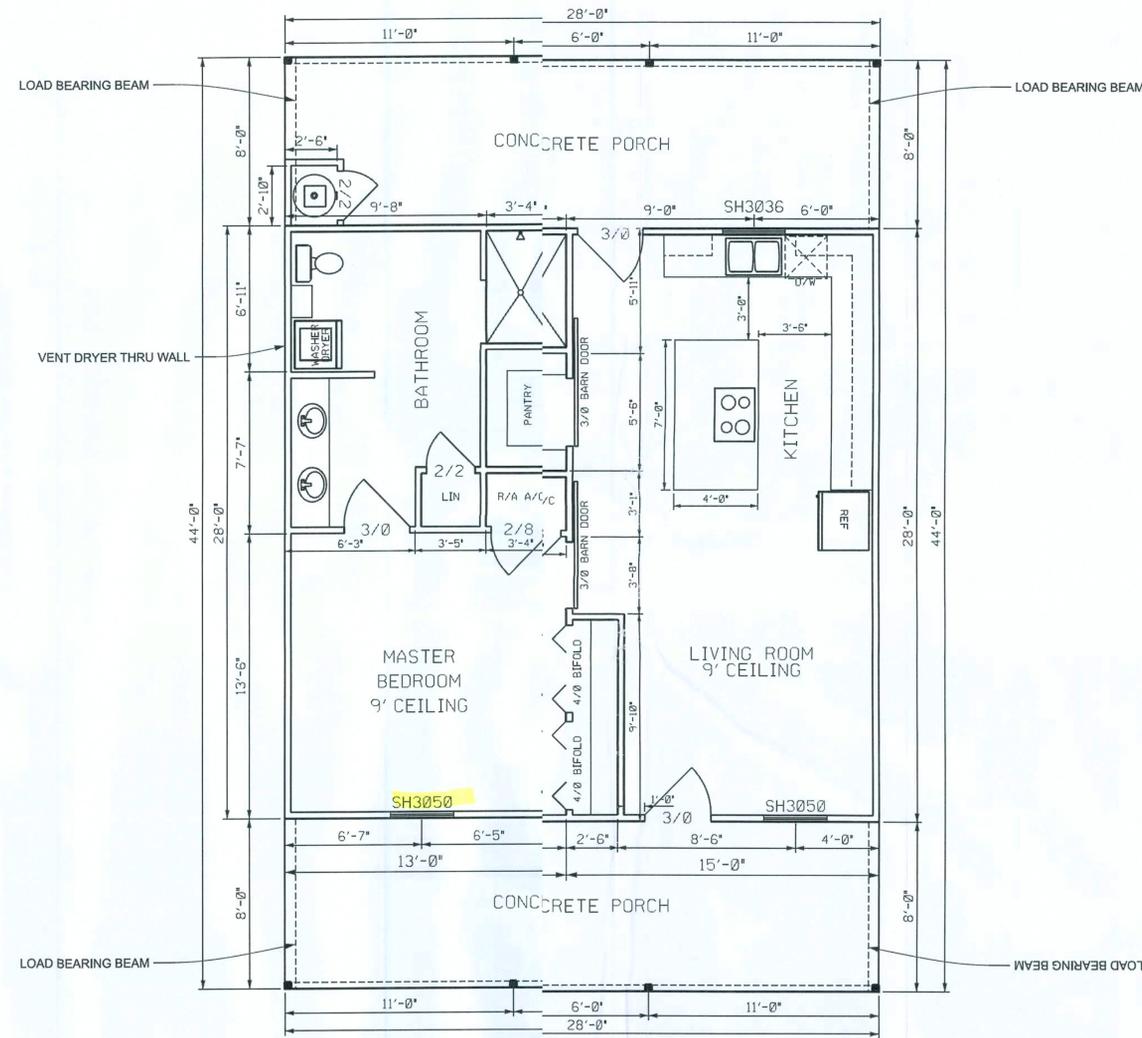
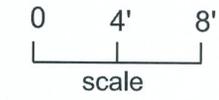
SHEET NO.	DESCRIPTION
1	TITLE / INDEX SHEET
2	FLOOR PLAN
3	LEFT / FRONT / REAR / RIGHT - ELEVATIONS
4	WALL TYPICAL SECTION
5	DESIGN CRITERIA / STRAPPING AND ANCHOR REQUIREMENTS
6	ROOF PLAN
7	FOUNDATION AND PLUMBING PLAN
8	ELECTRICAL PLAN

Christopher Q. Dicks
1 Jun 2021

PLANS PREPARED BY:
CHRISTOPHER Q. DICKS, P.E. 64766
4037 SE CR 252, LAKE CITY, FL 32025

TILLOTSON RESIDENCE
COLUMBIA COUNTY, FLORIDA

SHEET
1
OF
8



- NOTES:
 1. WALLS ARE DRAWN AS 3 1/2" WIDE.
 2. DOOR OPENINGS ARE DRAWN AS WIDTH + 2".

SQUARE FOOTAGE	
LIVING AREA	784 SF
PORCHES	448 SF
TOTAL	1232 SF

FLOOR PLAN

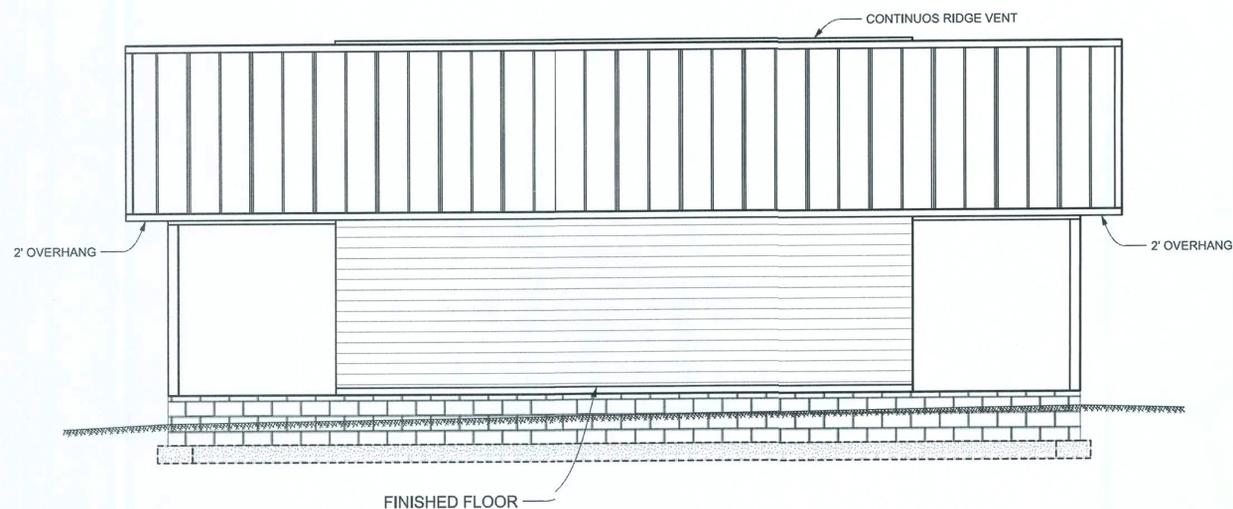
Christopher Q. Dicks
 1 JUN 2021

PLANS PREPARED BY:
 CHRISTOPHER Q. DICKS, P.E. 64766
 4037 SE CR 252, LAKE CITY, FL 32025

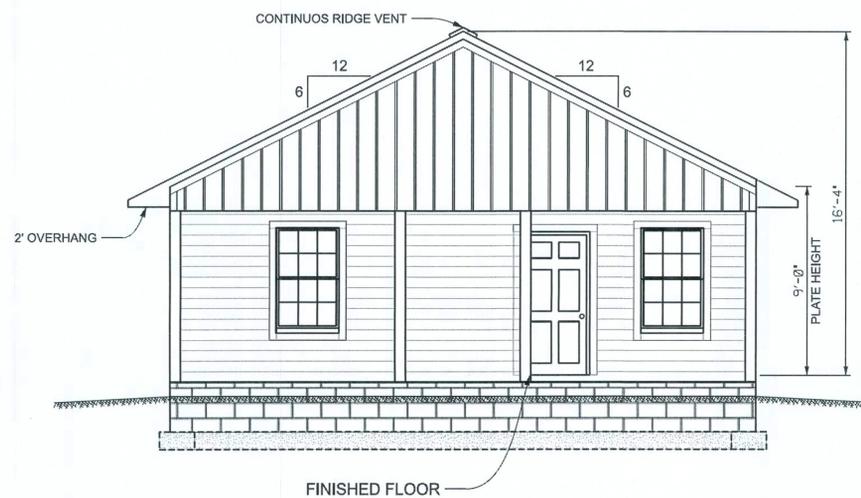
TILLOTSON RESIDENCE
 COLUMBIA COUNTY, FLORIDA

SHEET
 2
 OF
 8

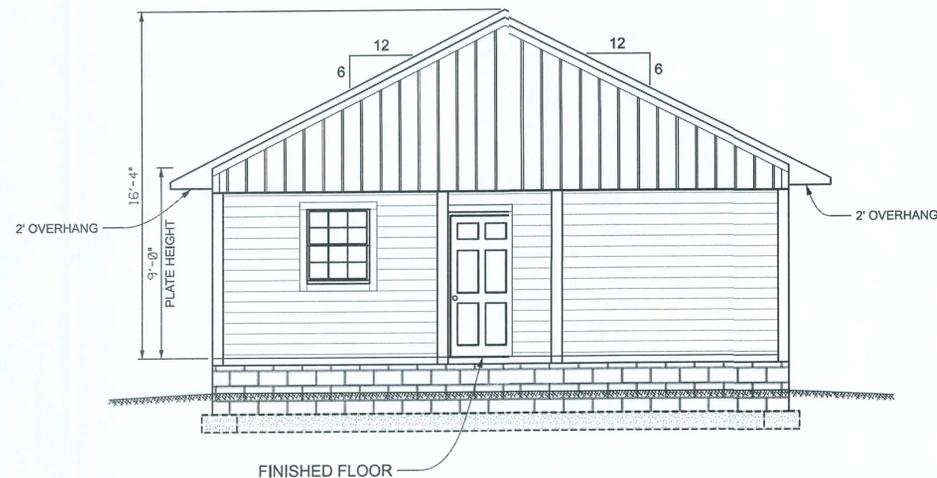
0 4' 8'
scale



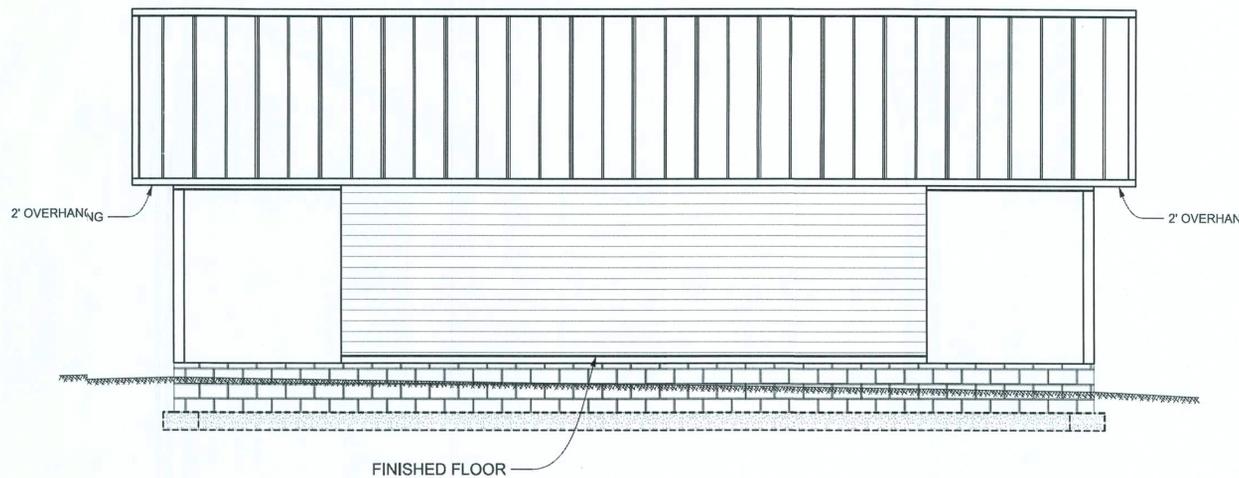
LEFT ELEVATION



FRONT ELEVATION



REAR ELEVATION



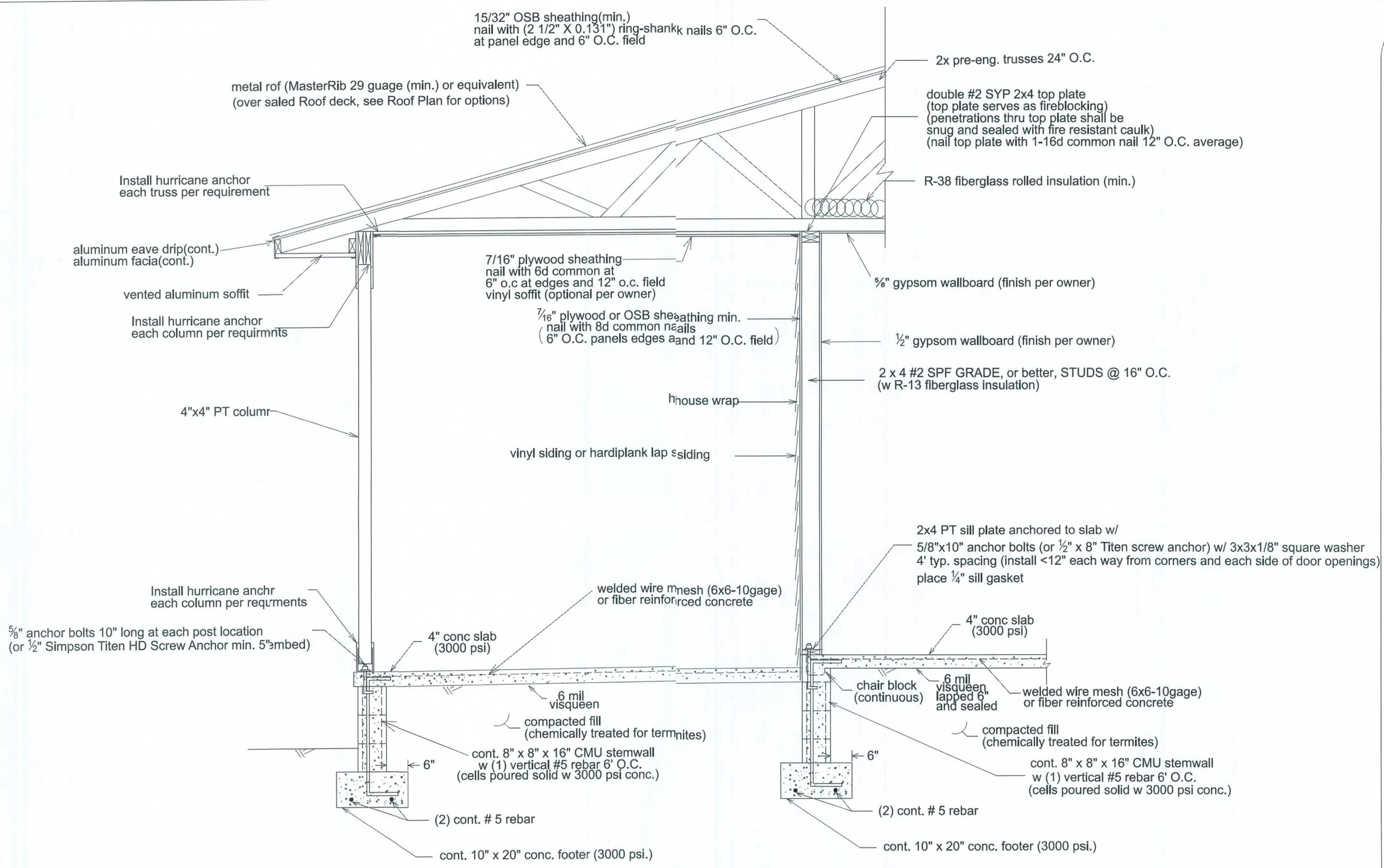
RIGHT ELEVATION

PLANS PREPARED BY:
CHRISTOPHER Q. DICKS, P.E. 64766
4037 SE CR 252, LAKE CITY, FL 32025

TILLOTSON RESIDENCE
COLUMBIA COUNTY, FLORIDA

SHEET
3
OF
8

Christopher Q. Dicks
1 JUN 2021



PLANS PREPARED BY:
CHRISTOPHER Q. DICKS, P.E. 64766
4037 SE CR 252, LAKE CITY, FL 32025

TILLOTSON RESIDENCE
COLUMBIA COUNTY, FLORIDA

TYPICAL WALL SECTION N.T.S.

Christopher Q. Dicks
1 Jun 2021

SHEET
4
OF
8

DESIGN CRITERIA

1. DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION(2020).

CODE REFERENCES:
 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
 SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-16)
 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)
 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION
 APA PLYWOOD DESIGN SPECIFICATION
 NATIONAL ELECTRICAL CODE, 2017

3. ALL COMPONENTS, SYSTEMS AND EQUIPMENT NOT SPECIFICALLY COVERED BY THESE PLANS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE CODE(S).

4. PROJECT INFORMATION
 OCCUPANCY GROUP: R-3
 MEAN ROOF HEIGHT: 13'
 ROOF CROSS SLOPE: 6:12 (see elevations)
 WALL HEIGHT: 9' above slab
 ROOF SNOW LOAD: ZERO psf
 SEISMIC DESIGN CATEGORY: A
 FLOOD DESIGN DATA: ZONE X (home to be located in this zone), ZONE AE on back of property Base Flood Elevation of 67.9'

5. WIND LOADS IN ACCORDANCE WITH ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7)

FLOOR AND ROOF LIVE LOADS
 UNINHABITABLE ATTICS: 20 psf
 HABITABLE ATTICS: 30 psf
 ALL OTHER ROOMS: 40 psf
 ROOFS: 20 psf

WIND DESIGN DATA
 ULTIMATE DESIGN WIND SPEED, Vult. (3-SECOND GUST): 120 mph
 NOMINAL DESIGN WIND SPEED, Vasd: 93 mph
 EXPOSURE CATEGORY: B
 IMPORTANCE FACTOR: 1.0
 RISK CATEGORY: II
 ENCLOSURE CLASSIFICATION: ENCLOSED
 INTERNAL PRESSURE COEFFICIENT: +/- 0.18

COMPONENT AND CLADDING DESIGN PRESSURES (psf)
 ROOF ZONE 1,2e: 9.6 -18.28
 ROOF ZONE 2r: 9.6 -25.74
 ROOF ZONE 2n: 11.13 -39.57
 ROOF ZONE 3e: 12.45 -45.78
 ROOF ZONE 3r: 12.45 -52.08
 WALL ZONE 4: 17.87 -19.74
 WALL ZONE 5: 20.18 -25.8

6. STRUCTURAL DESIGN CRITERIA

LIVE LOADS
 ROOF: 20 psf
 RESIDENTIAL FLOOR: 40 psf

WIND LOADS (BASED ON ASCE 7-16)
 VELOCITY: 120 mph, USE FACTR 1.0

CONCRETE STRENGTH @ 28 DAYS: 3000 psi

REINFORCING:
 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185
 ALL REINFORCING BARS ASTM A615-40 40,000PSI
 ALL STIRRUPS AND TIES ASTM A615-40 40,000PSI

CONCRETE MASONRY UNITS:
 ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 psi
 MORTAR TYPE "S" 1800 psi
 CONCRETE GROUT 3000 psi

STRUCTURAL STEEL:
 ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 psi, U.N.O.
 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

WOOD FRAMING:
 BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.
 NO. 2 SOUTHERN YELLOW PINE (19% M.C.)
 ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR OR OSB
 WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB

WOOD ROOF TRUSSES (DESIGN LOADS):
 TOP CHORD LIVE AND DEAD LOAD 30 psf
 BOTTOM CHORD DEAD LOAD 10 psf
 TOTAL 40 psf

SOIL BEARING VALUE:
 ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 300 psf

TRUSS ANCHORS:

Install the following Simpson anchor(s) at each truss to exterior wall/beam location(house, porches and garage).

Single ply trusses - install Simpson H10A
 Single ply trusses to porch beam - install simpson H2.5

WALL STRAP TIES:

Install Simpson model SP4
 One in each wall corner(both ways) and 4' o.c. along wall
 For windows <= 4' install one each side
 for windows and doors 4' <= 6' install two each side

(5/8" threaded rod, embedded 10" into slab with Simpson epoxy or coupled with 5/8" Simpson Titen HD Screw Anchor, up thru double top plate with 3" square plate washer may be substituted for single and double SPs)

SHEATHING:

Wall sheathing shall be installed with long dimension vertical on exterior walls and full-depth blocking shall be required at horizontal joints in sheathing.

PORCH COLUMNS AND BEAMS:

Columns shall be 4"x4" PT.
 Load Bearing Beam(s): 2 - 1.75 x 9.25 LVL (1.9 x10*6 E min.)
 Gable beam(s): 2 - 1.75 x 9.25 LVL (1.9 x10*6 E min.) or 2 - 2x10s (#2 SYP) with 7/16" plywood between or 2x4 (#2 SPF) (if gable trusses are structurally end bearing / not full bearing)
 Install Simpson ABU44 for column connections to slab and for column top install Simpson AC4MAX at each column (ACE4MAX at end columns).
 Install Simpson HUCQ410-SDS at beam to exterior wall locations.

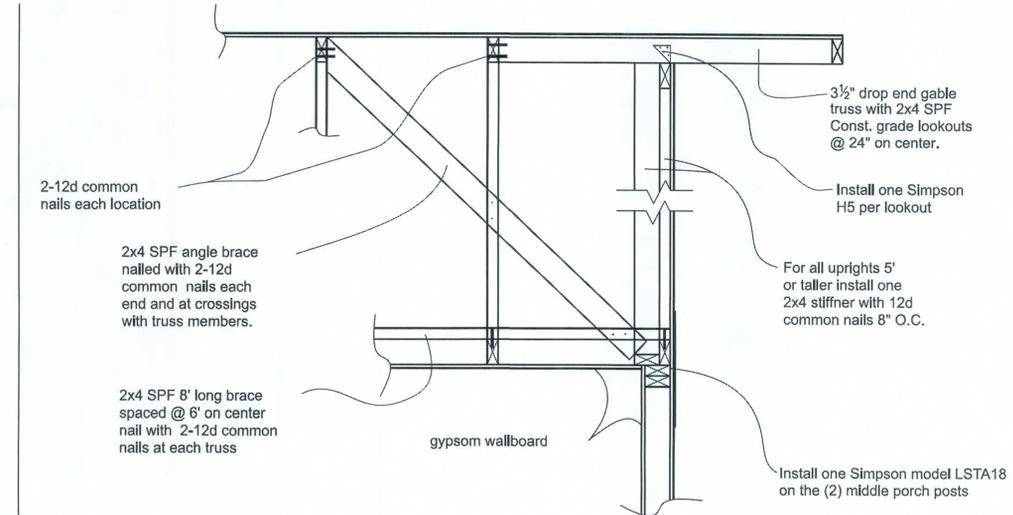
HEADER SCHEDULE:

LOCATION	HEADER
DOORS AND WINDOWS	2 - 2"x12" SYP w/ 7/16" PLYWOOD BETWEEN

GABLE ENDS:

At gable ends install one Simpson model H5 anchor where lookouts connect to end gable truss.

BRACING: At each gable end install one 2x4 SPF 8' stud spaced 6' on center horizontal along top of bottom chord of trusses, nail with 2-12d nails at each truss including end truss. In addition, install a 2x4 brace extending from this stud at the gable end truss 45 degrees to truss at roof sheathing, nail with 2-12d nails where it crosses truss members and at ends. Gable end truss shall be built to receive sheathing with vertical members 2' on center(see Detail).



GABLE END BRACING DETAIL (N.T.S.)

NOTE: Gable end trusses shall be dropped 3 1/2" for construction of lookouts & overhang.

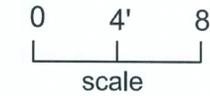
PLANS PREPARED BY:
 CHRISTOPHER Q. DICKS, P.E. 64766
 4037 SE CR 252, LAKE CITY, FL 32025

TILLOTSON RESIDENCE
 COLUMBIA COUNTY, FLORIDA

SHEET
 5
 OF
 8

Christopher Q. Dicks
 1 JUN 2021

DESIGN CRITERIA / STRAPPING AND ANCHOR REQUIREMENTS



SEALED ROOF PLAN OPTIONS:

OPTION I

A layer of self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 applied over the entire roof

OPTION II

Either
 (A min. 4-inch wide strip of self-adhering polymer-modified bitumen complying with ASTM D1970
 or
 A min. 3 3/4 - inch wide strip of self adhering flexible flashing tape complying with AAMA 711)
 applied over all joints in the roofing deck.
 with

One layer of 30# felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D6757, or a synthetic underlayment complying with ASTM D226 Type II (min. tear strength 15 lbf ASTM D453, min. tensile strength 20 lbf/in ASTM D5035)

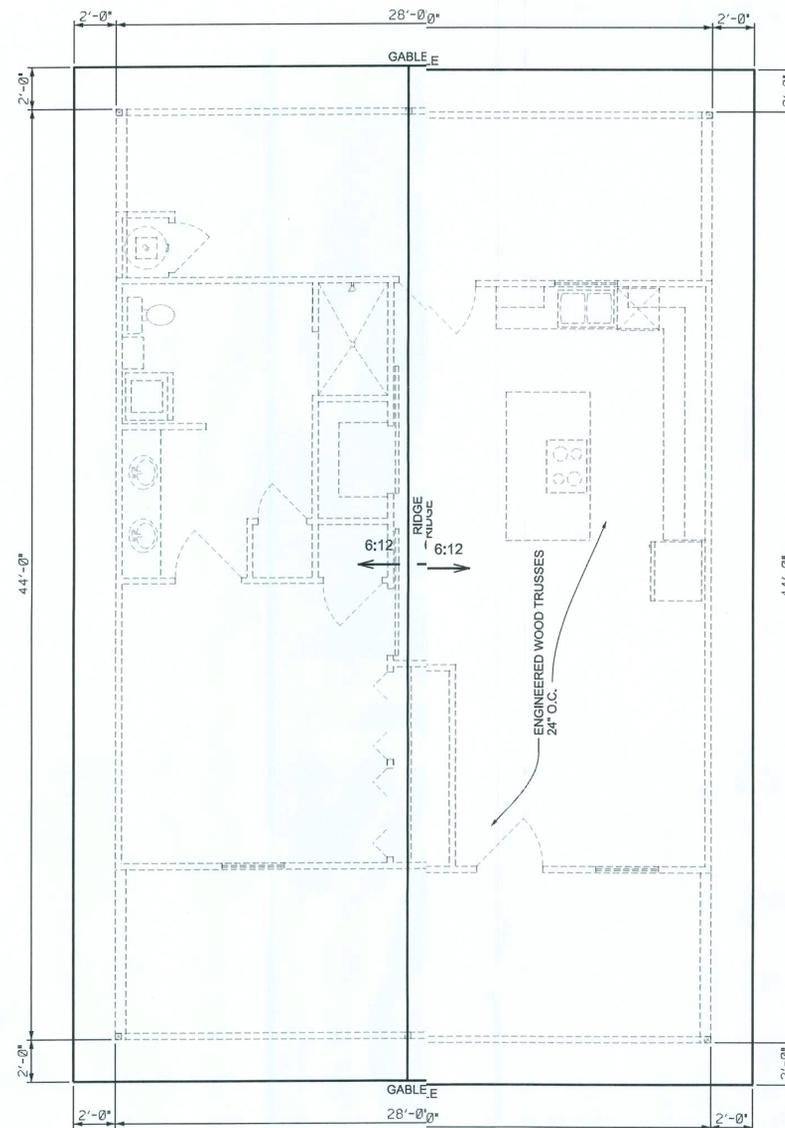
See installation below:

OPTION III

Two layers of 30# felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D6757, or a synthetic underlayment complying with ASTM D226 Type II (min. tear strength 15 lbf ASTM D453, min. tensile strength 20 lbf/in ASTM D5035)

See Installation below:

Installation:
 Apply a 19-inch strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave apply 36-inch-wide sheets of underlayment, overlapping successive sheets 9 inches; end laps shall be 6 inches and shall be offset by 6 feet.
 The underlayment shall be attached to a nailable deck with corrosion-resistant fasteners with one row centered in the field of the sheet with a maximum fastener spacing of 12 inches o.c., and one row at the end and side laps fastened 6 inches o.c. Underlayment shall be attached using annular ring or deformed shank nails with metal or plastic caps with a nominal cap diameter of not less than 1 inch. Metal caps shall have a thickness of not less than 32-gauge sheet metal. Powerdriven metal caps shall have a minimum thickness of 0.010 inch. The minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails. The cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than 3/4 inch into the roof sheathing.



ROOF SHEATHING FASTENERS			
PRESSURE ZONE	SHEATHING TYPE	FASTNER	SPACING
ALL ZONES	15/32" OSB	(2 1/2" x 0.131") RING SHANK NAILS	6" O.C. EDGE 6" O.C. FIELD

3e	2e	3e
2n	1	2n
3r	2r	3r
3r	2r	3r
2n	1	2n
3e	2e	3e

ROOF COMPONENT AND CLADDING PRESSURE ZONES (GABLE ROOF) (7 TO <= 45 DEGREES)

ROOF PLAN

PLANS PREPARED BY:
 CHRISTOPHER Q. DICKS, P.E. 64766
 4037 SE CR 252, LAKE CITY, FL 32025

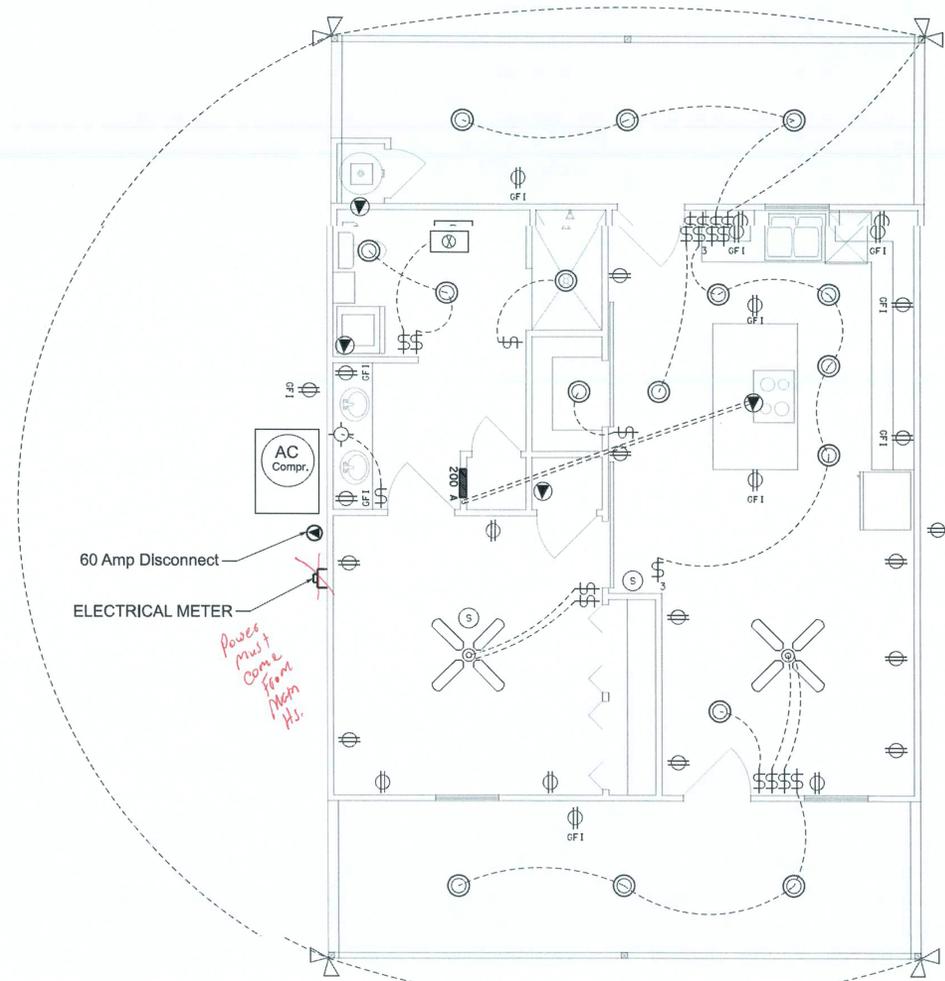
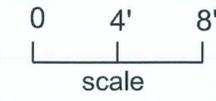
**TILLOTSON RESIDENCE
 COLUMBIA COUNTY, FLORIDA**

Christopher Q. Dicks
 1 JUN 2021

SHEET
 6
 OF
 8

ELECTRICAL LEGEND

-  - CEILING FAN w LIGHTS
-  - LIGHT FIXTURE
-  - RECESSED CAN LIGHT FIXTURE
-  - FLOURESCENT LIGHT FIXTURE
-  - SINGLE POLE SWITCH
-  - THREE-WAY SWITCH
-  - RECEPT.
-  - GFI RECEPT OR PART OF A GFI CIRCUIT.
-  - SECURITY LIGHT
-  - EXHAUST (minimum 50 cfm)
-  - 220 V.
-  - SMOKE DETECTOR (AC/DC and interconnected)



NOTES:

1. ALL ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS SHALL COMPLY WITH THE PROVISIONS OF NFPA 70, NATIONAL ELECTRICAL CODE (LATEST EDITION) AND THE FLORIDA BUILDING CODE (LATEST EDITION).
2. INSTALL A CONCRETE ENCASED ELECTRODE WITHIN THE FOUNDATION (see Foundation Plan) PER THE N.E.C.
3. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF.
4. ALL BEDROOM RECEPTACLES SHALL BE PART OF AN AFCI CIRCUIT. EACH BEDROOM SHALL BE ON AN INDIVIDUAL AFC CIRCUIT.
5. ALL RECEPTACLES SHALL BE CHILD RESISTANT.
6. CONSULT THE OWNER FOR THE LOCATION OF TELEPHONE AND CABLE LINE(S) TO BE INSTALLED.
7. ALL SMOKE DETECTORS SHALL BE 120V W/BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERCONNECTED.

ELECTRICAL PLAN

PLANS PREPARED BY:
CHRISTOPHER Q. DICKS, P.E. 64766
4037 SE CR 2552, LAKE CITY, FL 32025

TILLOTSON RESIDENCE
COLUMBIA COUNTY, FLORIDA

SHEET
8
OF
8

Christopher Q. Dicks
1 JUN 2021