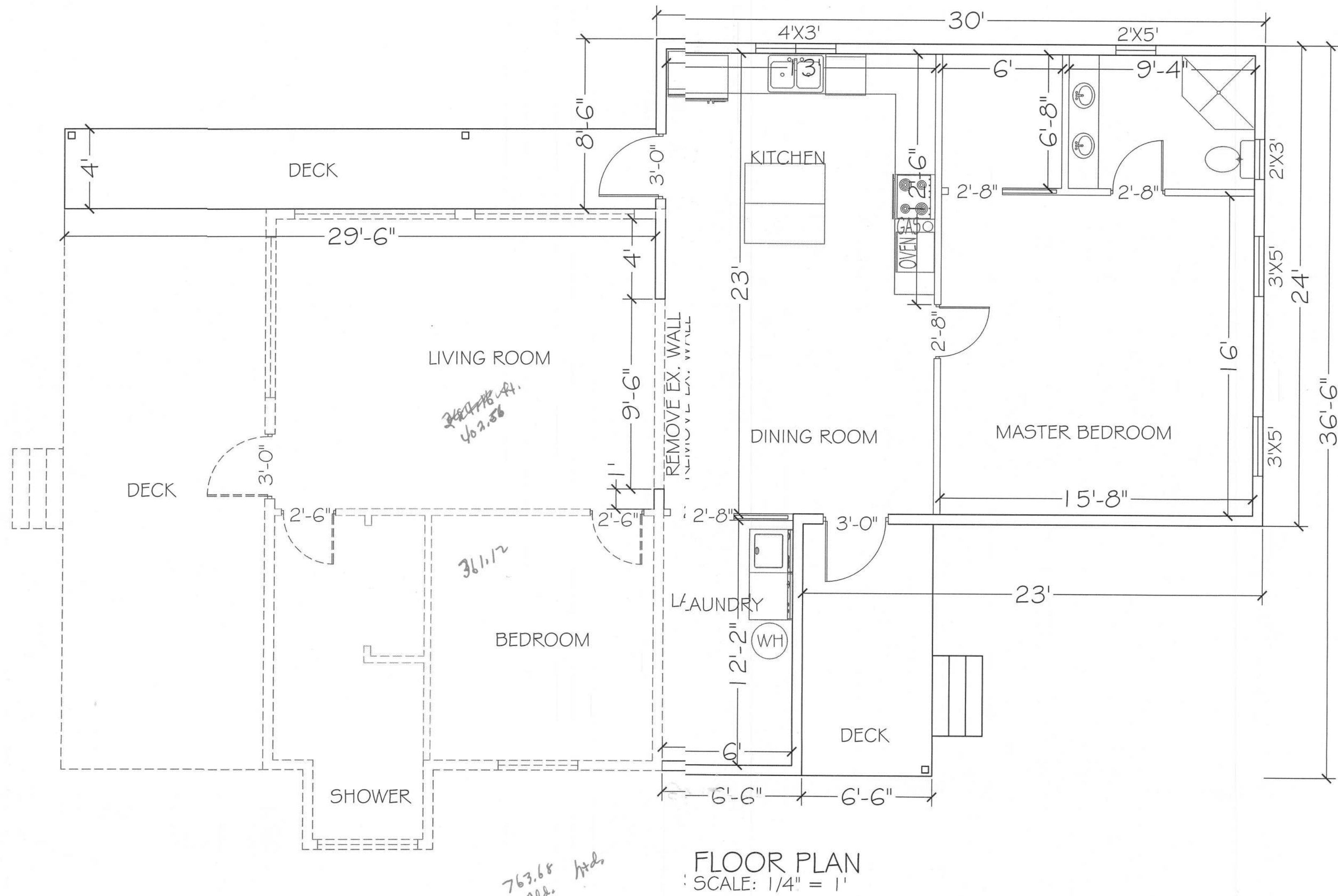


DESIGN SPECIFICATIONS

- DESIGN CODES:
2020 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
ASCE 7-10, 2005
NDS, ACI, ATIC, AWWA, APA, ICC 600-08
- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)
- DESIGN LOADS:
ROOF CONVENTIONAL FRAMING:
LL 20 PSF RAFTERS
LL 20 PSF CEILING JOISTS
DL 10 PSF RAFTERS
DL 10 PSF CEILING JOISTS
DL 30 PSF ATTICS WITH STORAGE
DL 10 PSF ATTICS W/O STORAGE
FLOORS:
LL 40 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 10 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD
- NUMBER OF STORIES: 1
- TYPE OF CONSTRUCTION: TYPE V-G, UNPROTECTED, UNSPRINKLERED
WIND ZONE INFORMATION
BUILDING: ENCLOSED STRUCTURE
ULTIMATE DESIGN WIND SPEED: 130 MPH
NOMINAL DESIGN WIND SPEED: 110 MPH
BUILDING RISK CATEGORY: II
WIND EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT: 0.18 CGpi ±

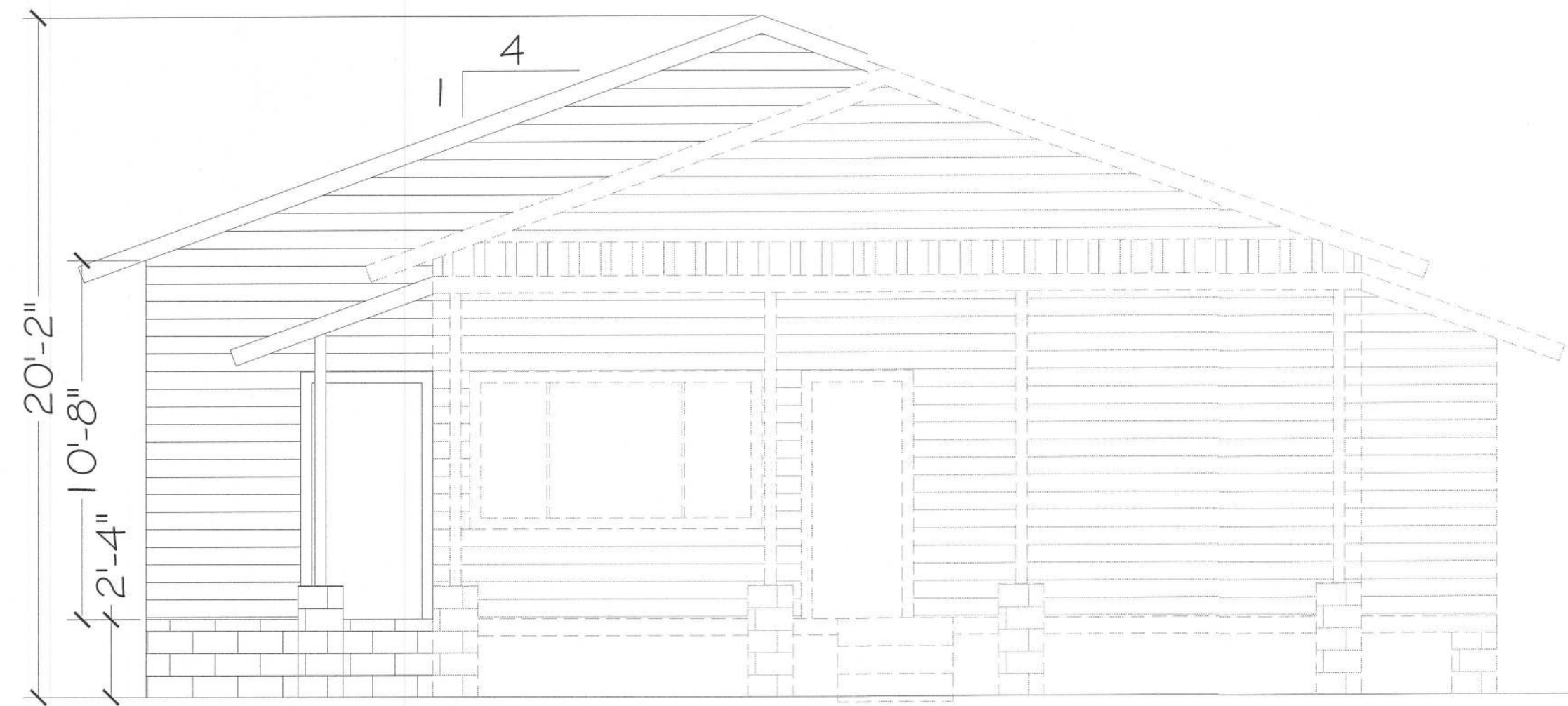


FLOOR PLAN
SCALE: 1/4" = 1'

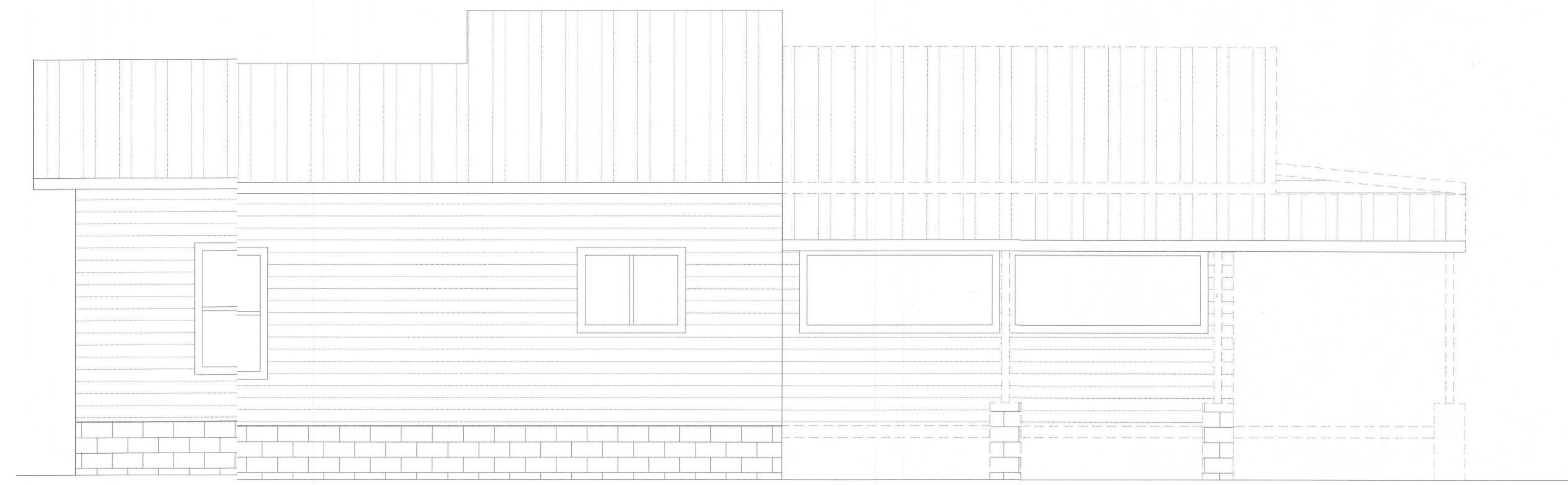


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Carol Chadwick
DN: cn=Carol Chadwick,
o=Florida,
ou=Professional Engineer,
c=US,
email=carol.chadwick@floridabuilding.com,
date=2022.02.04
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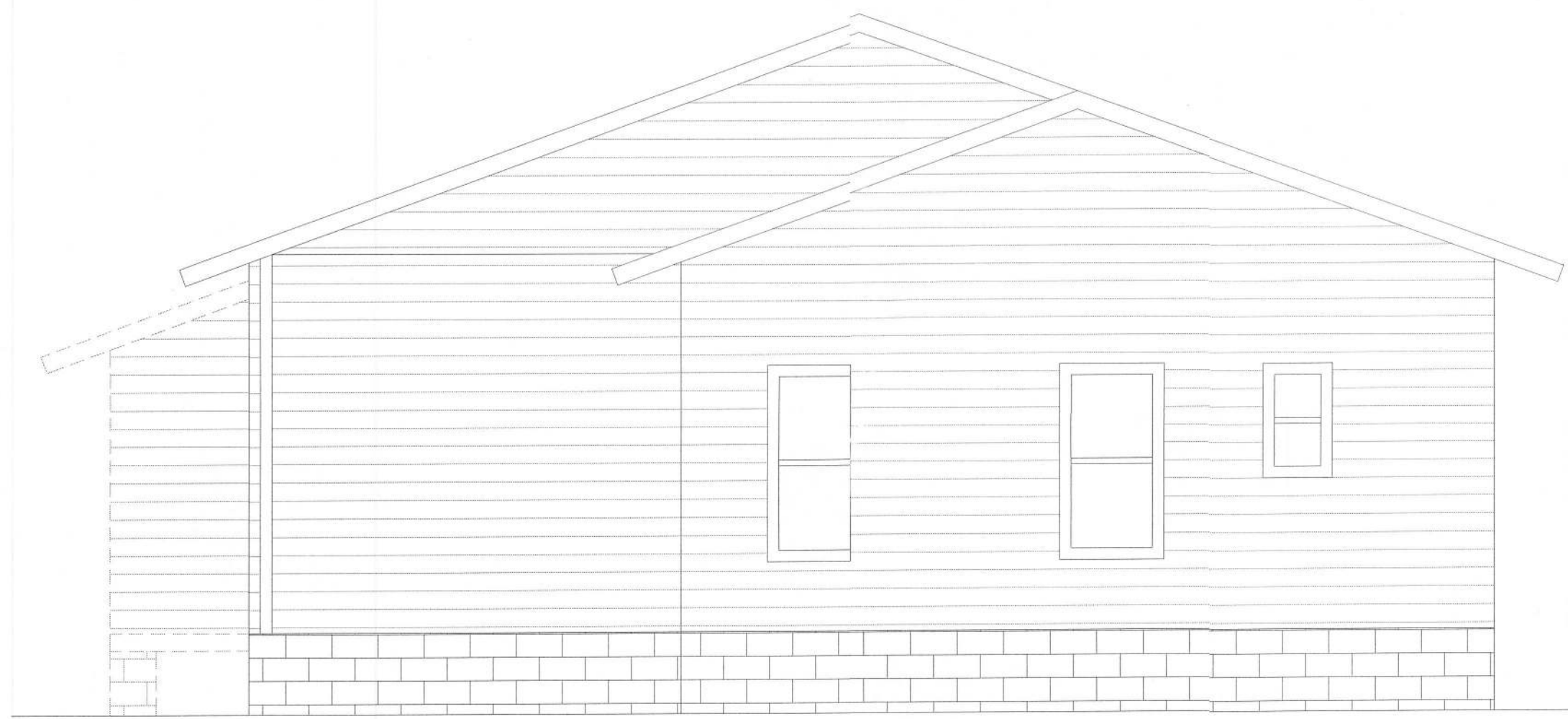
PROJECT: McKibbin Residence	
DATE: 2/4/22	
DRAWN BY: Carol Chadwick	
CHECKED BY: Carol Chadwick	
APPROVED BY: Carol Chadwick	
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SHEET: 5-1	



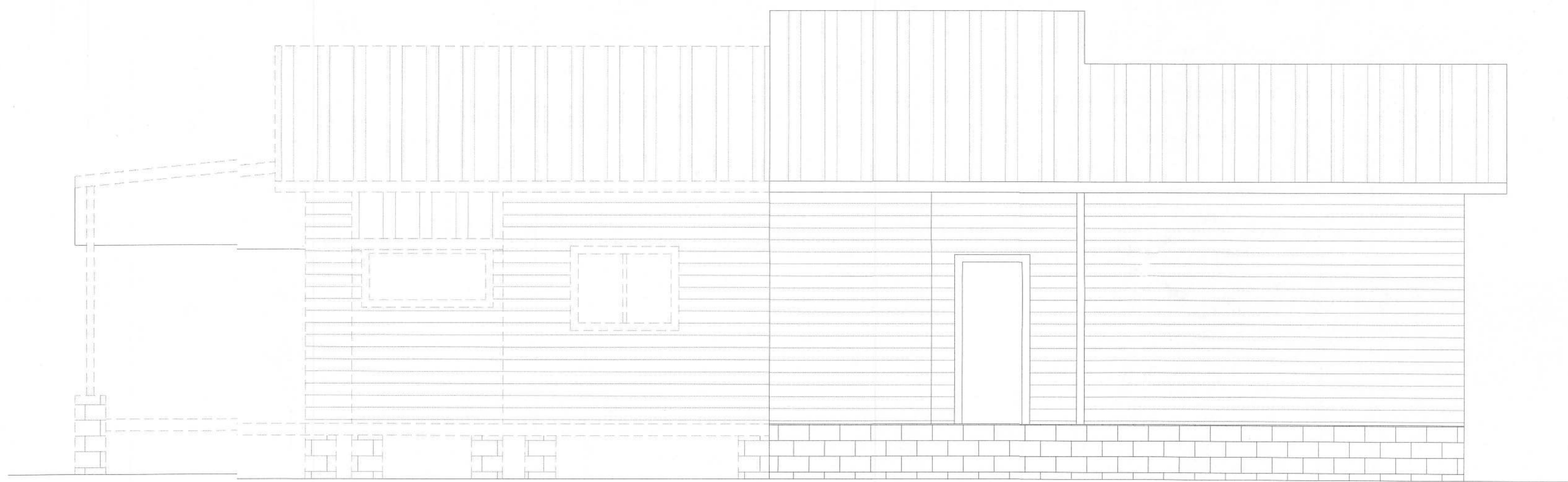
FRONT ELEVATION
SCALE: 1/4" = 1'



LEFT ELEVATION
SCALE: 1/4" = 1'



REAR ELEVATION
SCALE: 1/4" = 1'

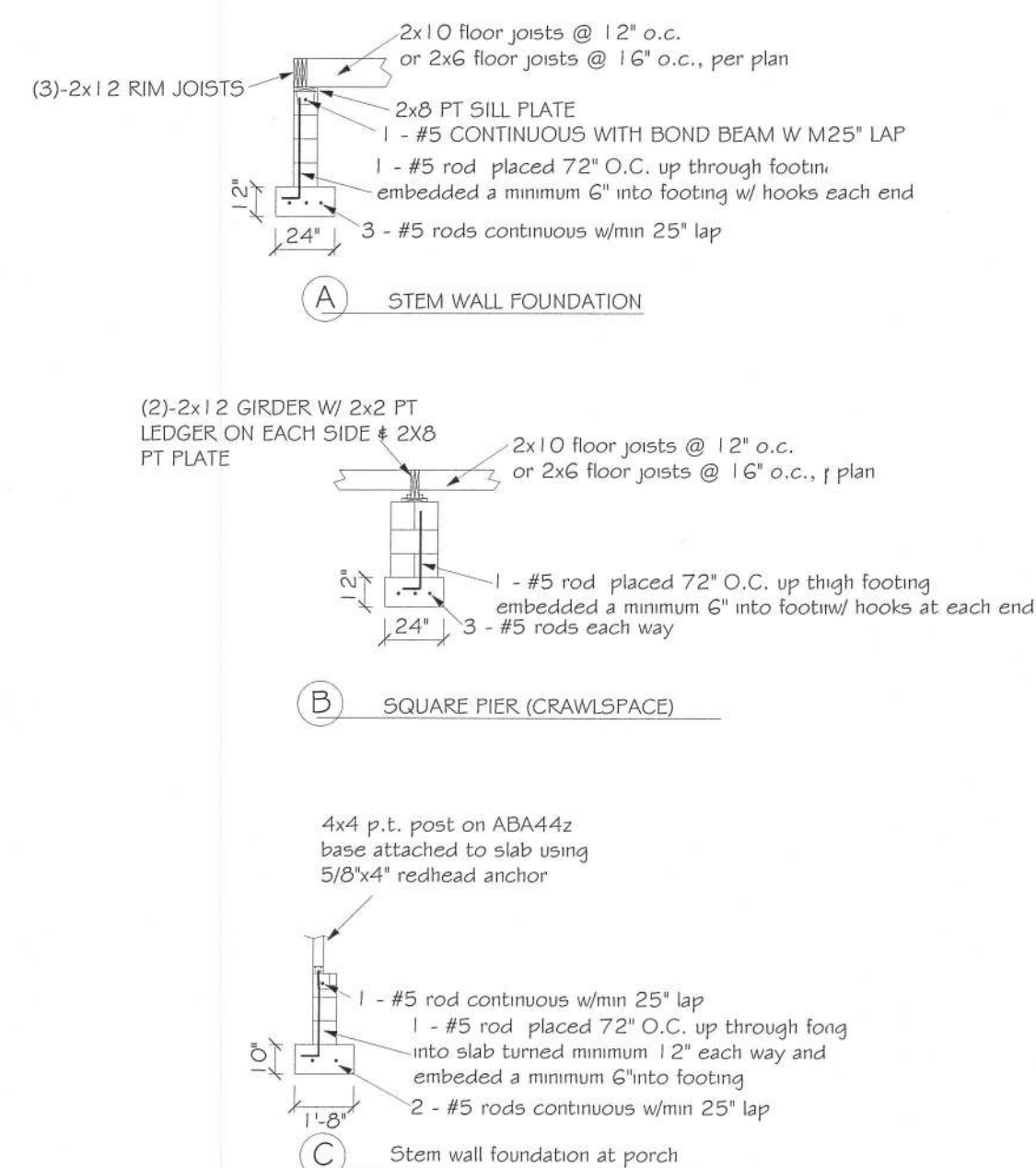


RIGHT ELEVATION
SCALE: 1/4" = 1'



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DN: cn=US, ou=Florida,
dnQualifier=A01410D00000178B6D
924CE000954C, cn=Carol
Chadwick
Date: 2022.02.04 11:41:05 -0500

PROJECT NO. H22026	
DATE FEB. 4, 2022	
REVISION DATE	
SHEET 32/62	
PREPARED FOR: MCKIBBIN RESIDENCE 3405 CLAMBERLAND ROAD FORT WHITE, FL 32939 941.323.3939 billymckibbin@gmail.com	
PREPARED BY: CAROL J. CHADWICK, P.E. License No. 82660 State of Florida PROFESSIONAL ENGINEER	
PERSONAL DESCRIPTION: DATE:	
MCKIBBIN RESIDENCE ELEVATIONS	



FOUNDATION NOTES

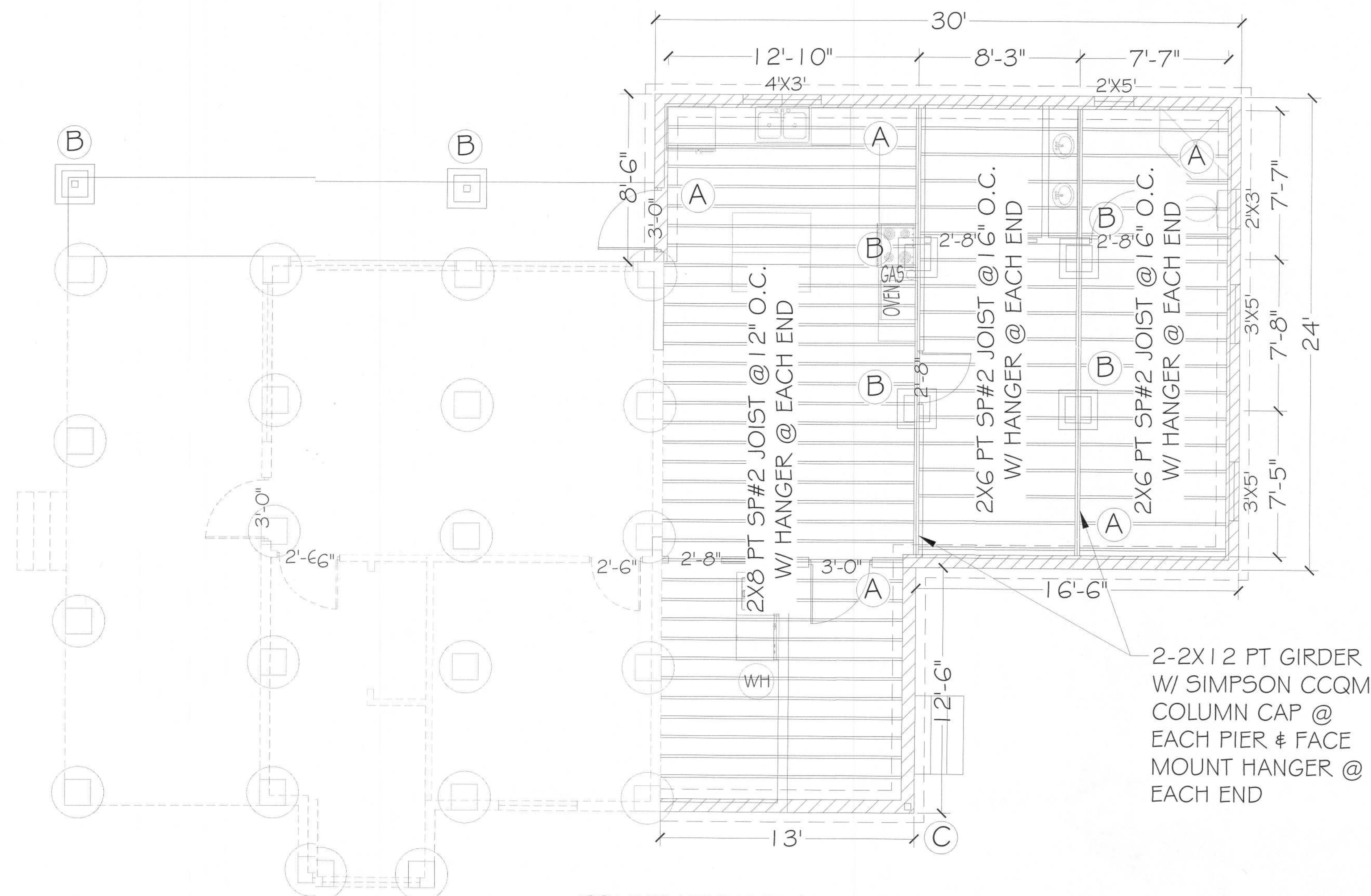
- CRAWLSPACE SHALL HAVE 6-MIL POLY VAPOR BARRIER w/ LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED SOIL
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM (12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBCSS, SECTION R403.1.4

NOTE:
SOIL UNDER FOOTING SHALL BE COMPRESSED TO 2000 PSF AT 95% DENSITY. CONCRETE STRENGTH SHALL BE 2500 PSI

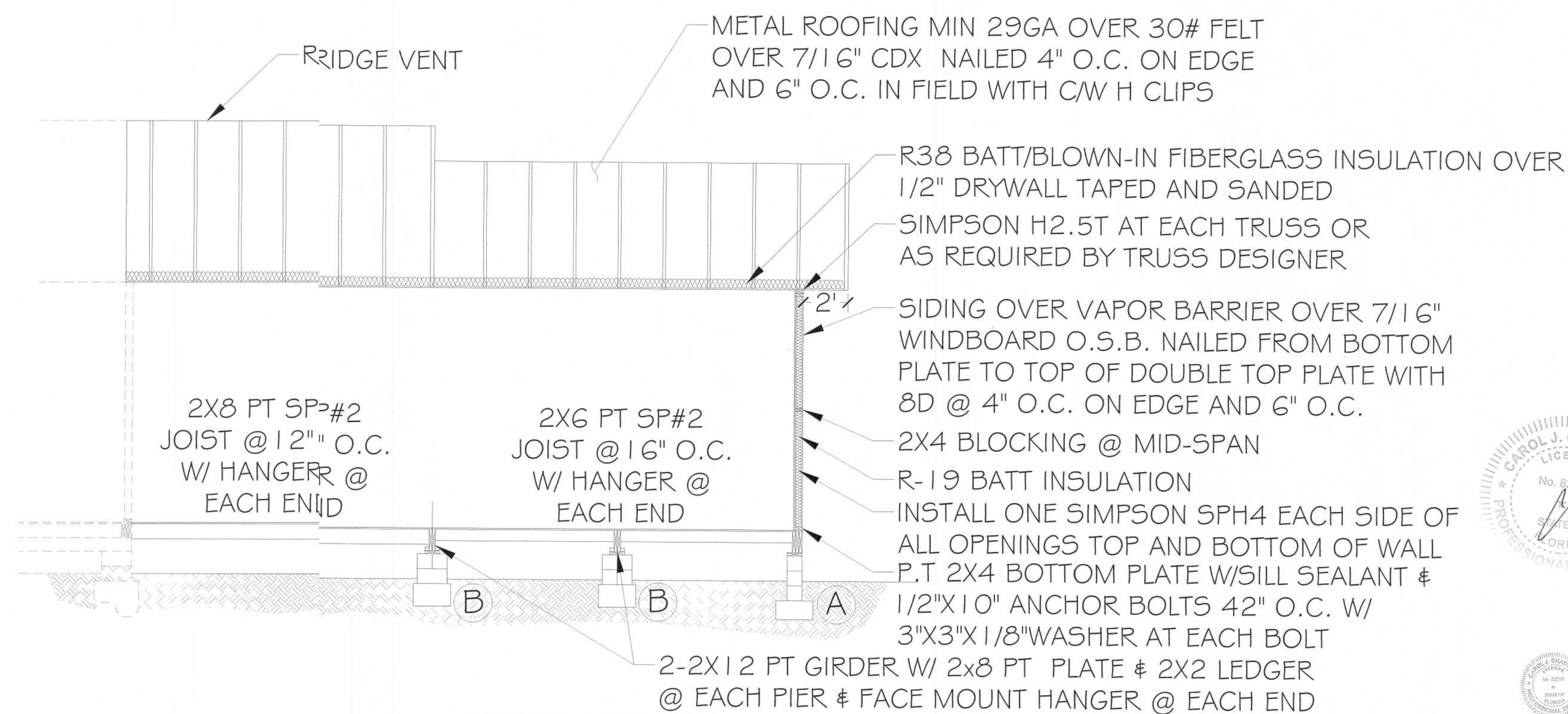
ROOF FRAMING NOTE

In lieu of engineered trusses the roof can be constructed using the following framing members for a live load of 20 psf and a dead load of 10 psf:

- Rafters: 2x10 SP#1 @ 2' o.c.
- Ridge beam: 2x12 SP#1
- Collar tie: 2x6 SP#1 @ 1:1 H from top
- Fasteners per Table R02.5.1, 2020 FBC, 7th edition Simpson H2.5 clip @ each rafter
- Ceiling joists: 2x10 SS @ 2" o.c.



FOUNDATION PLAN
SCALE: 1/4" = 1'



CROSS-SECTION
SCALE: 1/4" = 1'



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Carol Chadwick
DN: cn=US,
o=Florida,
dnQualifier=A014
1000000017E8D
94CE000594C,
cn=Carol
Chadwick
Date: 2022.02.04
11:41:18 -0500

ROOF VENT CALCULATION					
FORMULA					
1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING					
144 SQUARE INCHES = 1 SQUARE FOOT					
BUILDING CEILING (SQ. FT.) ÷ 144 = BUILDING (SQ. IN)					
BUILDING (SQ. IN) ÷ 300 = IN. OF VENT REQUIRED					
SQ. IN. OF VENT REQUIRED ÷ 50% AT HIGH AND 50% AT LOW					
PER FDC SECTION R405.4.05 MIN. BUT NOT MORE THAN 50% OF VENTILATION MUST BE VENTED BY VENTILATORS LOCATED A MIN. 3'-0" ABOVE EAVE					
BASE OF CALCULATION					
(a) OFF RIDGE VENTS - MIN. 50 SQ. IN. (INVA) PER LINEAL FT.					
(b) RIDGE VENTS - 1" DIA. FULL VENT PERFORATED W/ 8-19 SQ. IN. (INVA) PER LINEAL FT.					
CALCULATED UNILA ROOF SOFFIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED ROOF LOCATED LESS THAN 5' FROM PROPERTY LINE					
AREA (SQ. FT.)	REQD. HIGH (SQ. IN.)	VENTS (SQ. IN.)	PROVIDED (SQ. IN.)	UNILA (SQ. IN.)	LOW (SQ. IN.)
HIGH: 2 VENTS = 216 SQ. IN.					
LOW: UNILA FT. = 9.19 SQ. IN.					
SOFFIT VENT SPEC.					
Double 5" perforated soffits x 6.20 sq. inchsq. foot rating					
Triple 4" center vent soffits x 1.25 sq. inchsq. foot rating					
Triple 4" full vent soffits x 2.67 sq. inchsq. foot rating					
Triple 4" basketweave full vent x 14.34 sq. inchsq. foot rating					
Triple 4" center vent has x 4 sq. inchsq. foot rating					
Double hidden vent soffits x 6.66 sq. inchsq. foot rating					
Triple 3-1/2" hidden vent soffit x 9.19 sq. inchsq. foot rating					

NOTE
7/16" O.S.B. NAD WITH 8D 6"
O.C. IN FIELD & 4" C. ON EDGES

NOTE
Simpson Strong-Tie Co. Strong-Drive SDWC TRUSS Screws may be used for uplift connection in lieu of straps. Strong-Drive SDWC TRUSS Screws to be installed per manufacturer's specifications.

Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 6", maximum spacing of 42" o.c., may be used in lieu of 5/8" x 10" anchor bolts with 3/4" x 1/8" washers. Titen HD Heavy-Duty Screw Anchors shall be installed per manufacturer's specifications.

ROOF SHEATHING FASTENING

- 4" O.C. GABLE END
- 6" O.C. EDGES (ALL ZONES)
- 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
- 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)

SEE FIGURE R803.2.3.1, SECTION R803.1, 2017 FLORIDA BUILDING CODE - RESIDENTIAL, SIXTH EDITION FOR ROOF SHEATHING NAILING ZONES

ROOF NOTES

ROOF PITCH LESS THAN 4/12 DBL. LAYER OF UNDERLAYMENT IS REQUIRED

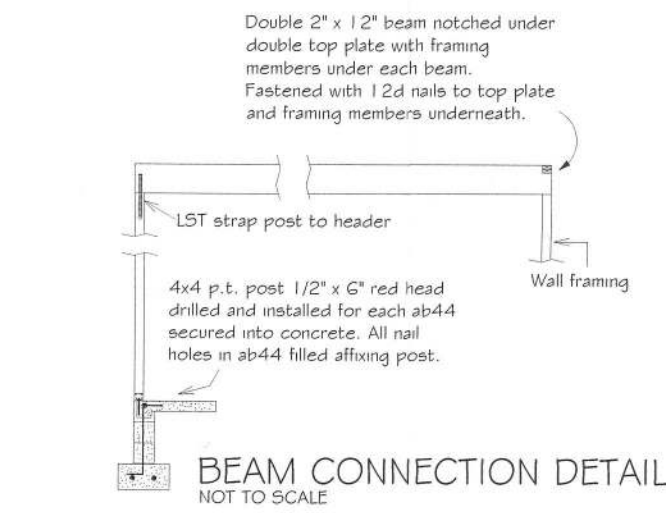
OVERLAP ROOFING UNDERLAYMENT 4" MIN. OVER HIPPS AND RIDGES

BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK. WHEN SHINGLES NOT INSTALLED SAME DAY

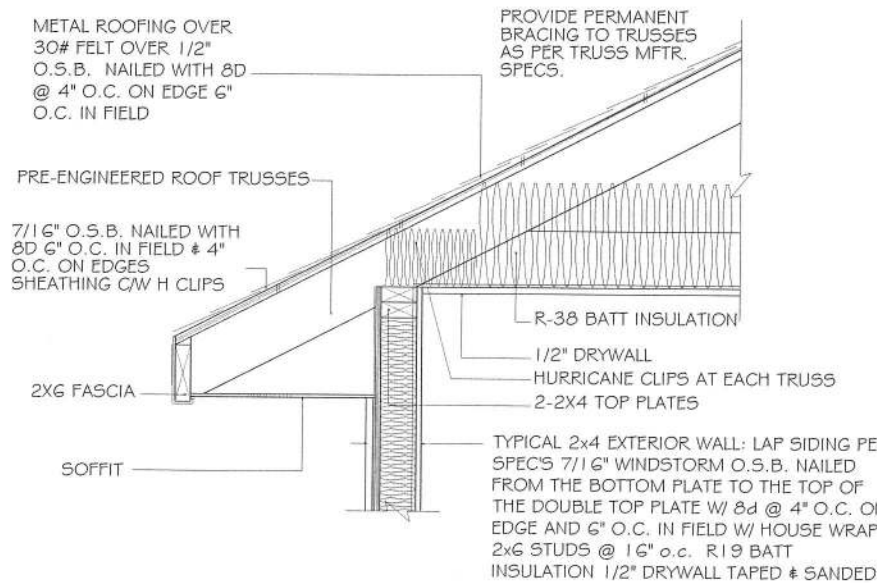
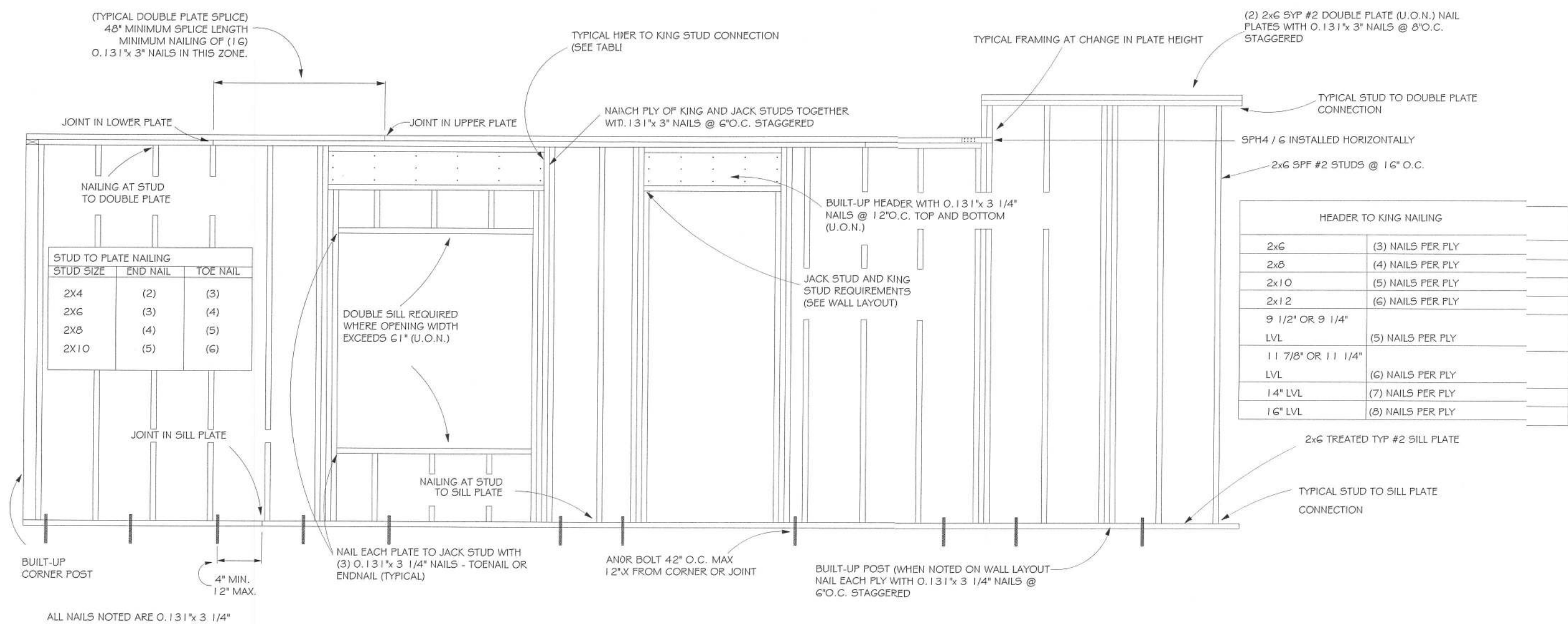
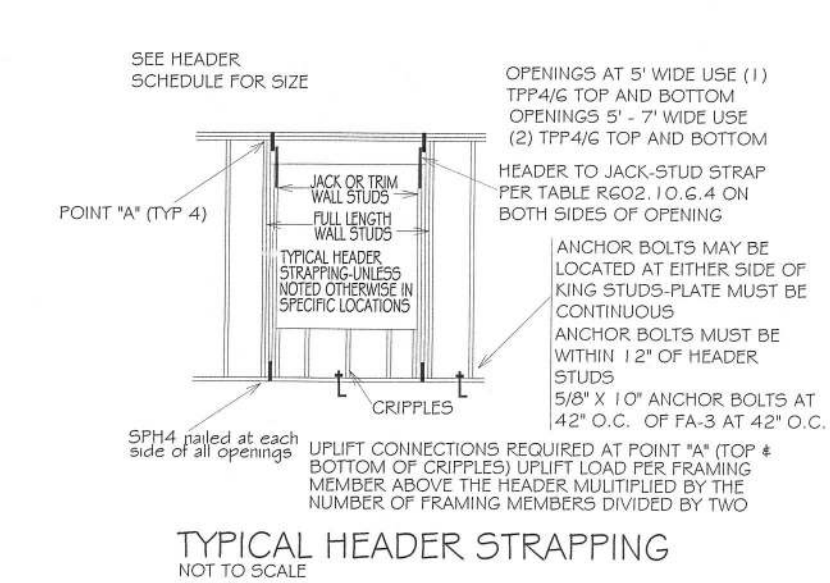
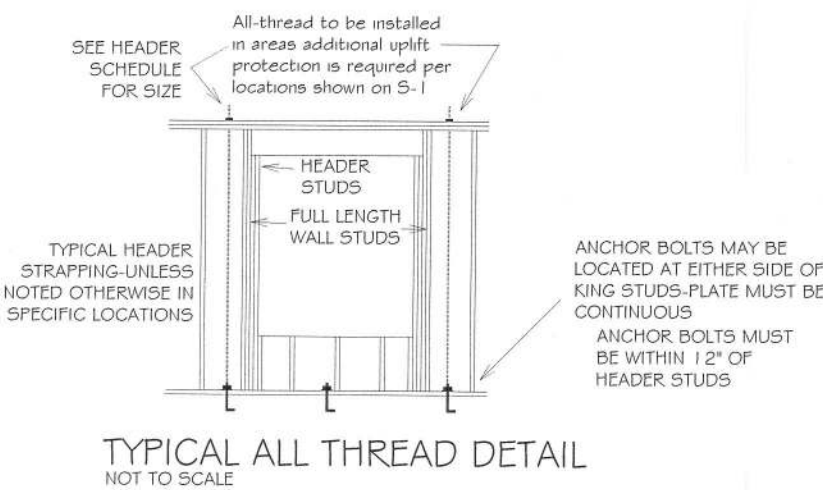
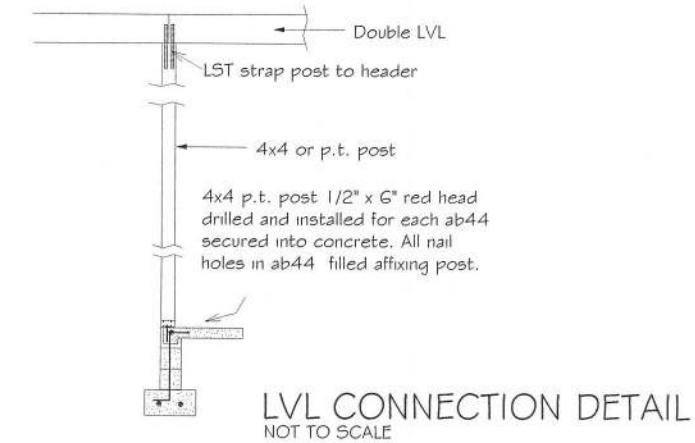
DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT AT EAVES

METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURER'S SPECS

1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



Double 1 3/4" x 11-1/4" LVL beam over opening up to 12'
Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'
Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 long studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One #425 at both ends of opening embedded min. 4" into concrete. LST18 strap over trimmer to header each side.



HEADER SCHEDULE			
2x STUD CONTINUOUS TO TOP PLATE			
HEADER - CONTINUOUS			
2-2x STUDS UNDER ENTIRE WITH OPENINGS LARGER THAN 5'-0"			
OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS	
0'-0" TO 3'-0"	2 - 2x 6s	2 - 2x 4s	
3'-1" TO 5'-0"	2 - 2x 10s	2 - 2x 6s	
5'-1" TO 7'-0"	2 - 2x 10s	2 - 2x 8s	
7'-1" TO 10'-0"	2 - 2x 10s	2 - 2x 10s	



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D924CE0005954C, cn=Carol Chadwick
Date: 2022.02.04 11:41:32 -05'00'

CAROL CHADWICK
Professional Engineer
State of Florida
License No. 82580
2/4/22

McKIBBIN RESIDENCE
FRAMING DETAILS

PROJECT NO. 122026
DATE FEB. 4, 2022
REVISION DATE
SHEET 3-4

