

DESIGN SPECIFICATIONS

- DESIGN CODES:
2020 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
ASCE 7-10, 2005
NDS, ACI, ATC, AMFA, APA, ICC 600-08

- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)

DESIGN LOADS:

- ROOF TRUSS:
LL 20 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 7 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD

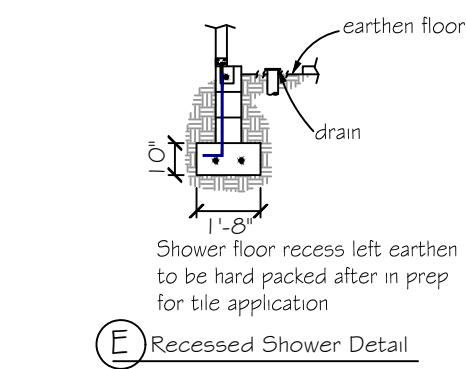
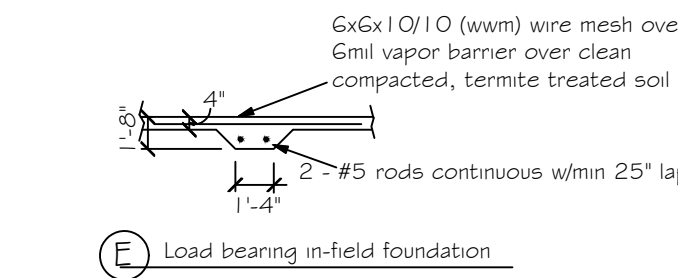
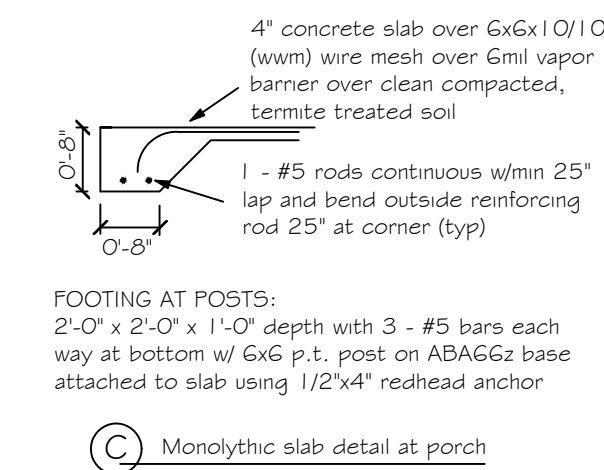
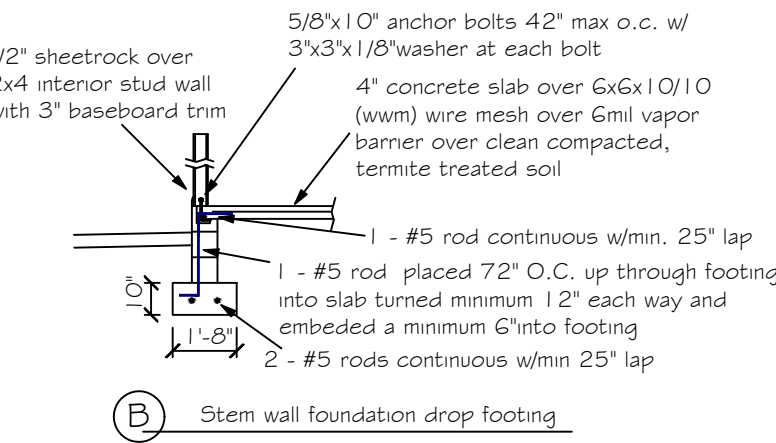
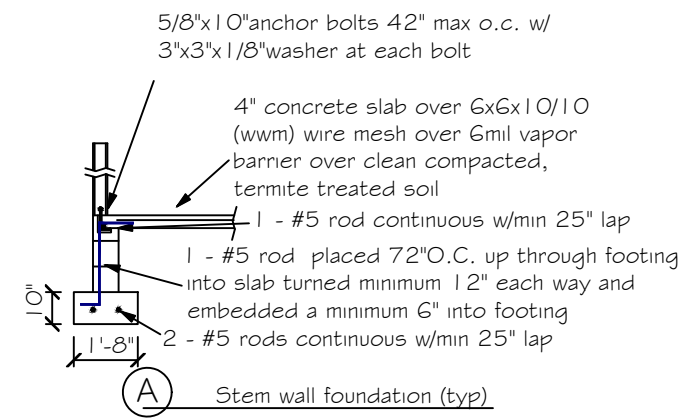
- ROOF CONVENTIONAL FRAMING:
LL 20 PSF RAFTERS
LL 20 PSF CEILING JOISTS
DL 10 PSF RAFTERS
DL 10 PSF CEILING JOISTS
DL 30 PSF ATTICS WITH STORAGE
DL 10 PSF ATTICS W/O STORAGE

- FLOORS:
LL 40 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 10 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD

- MAXIMUM HEIGHT OF STRUCTURE: 10'-11 1/2"
- NUMBER OF STORIES: 1

- TYPE OF CONSTRUCTION: TYPE V-G, UNPROTECTED, UNSPRINKLERED

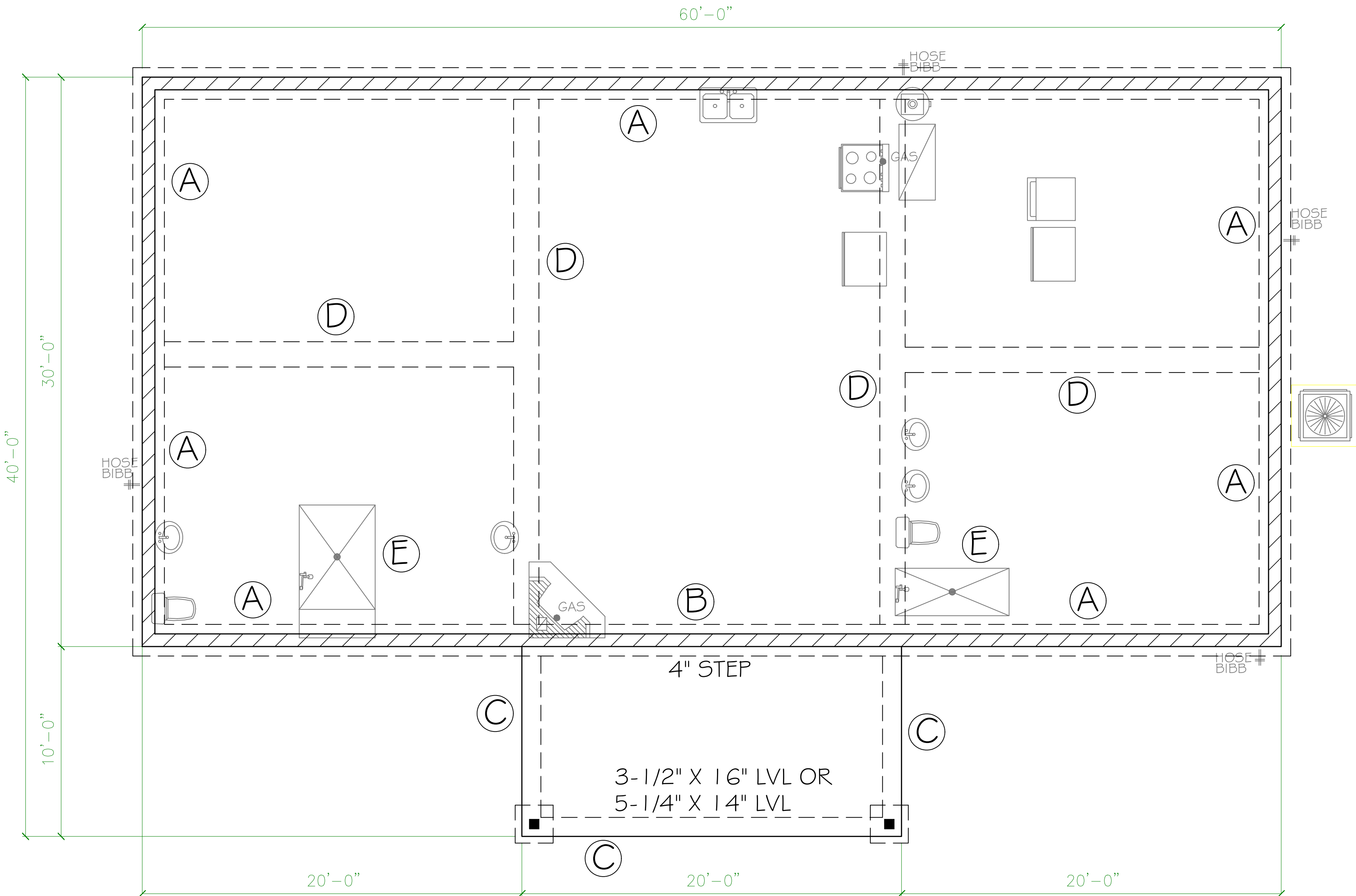
- WIND ZONE INFORMATION
BUILDING: ENCLOSED STRUCTURE
ULTIMATE DESIGN WIND SPEED: 130 MPH
NOMINAL DESIGN WIND SPEED: 110 MPH
BUILDING RISK CATEGORY: II
WIND EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT: 0.18 Cgpi ±



FOUNDATION NOTES

- REFER TO ARCHITECTURAL & BUILDING PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC.
- CONTRACTOR SHALL VERIFY ALL ROUGH PLUMBING LOCATIONS WITH OWNER PRIOR TO POURING SLAB
- THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED w/ 6x6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES, SECTION R403.1.4

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



FOUNDATION PLAN

SCALE: 1/4" = 1'



Digitally signed
by Carol
Chadwick
DN: cn=US
o=Florida,
stQualifier=A014
1820000017E86D
924CE000595AC,
c=US
Date: 2022.03.27
19:42:22 -0400

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

PROJECT: BELL RESIDENCE	
DESIGNER: REED ALMAREL CONSTRUCTION	
2220 DE LAVAL, SUITE 101	
TALLAHASSEE, FL 32305	
850.531.1133	
info@reedalmarel.com	
CONTRACT: 1. BELL RESIDENCE	
DATE: 03/27/2022	
REVISIONS:	
NO. DATE DESCRIPTION	
1 03/27/2022 FOUNDATION PLAN	
PROJECT: BELL RESIDENCE	
DESIGNER: REED ALMAREL CONSTRUCTION	
2220 DE LAVAL, SUITE 101	
TALLAHASSEE, FL 32305	
850.531.1133	
info@reedalmarel.com	
CONTRACT: 1. BELL RESIDENCE	
DATE: 03/27/2022	
REVISIONS:	
NO. DATE DESCRIPTION	
1 03/27/2022 FOUNDATION PLAN	
PROJECT: BELL RESIDENCE	
DESIGNER: REED ALMAREL CONSTRUCTION	
2220 DE LAVAL, SUITE 101	
TALLAHASSEE, FL 32305	
850.531.1133	
info@reedalmarel.com	
CONTRACT: 1. BELL RESIDENCE	
DATE: 03/27/2022	
REVISIONS:	
NO. DATE DESCRIPTION	
1 03/27/2022 FOUNDATION PLAN	

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 = SQ IN OF VENT REQUIRED SQ IN OF VENT REQUIRED / 2 = 50% AT HIGH AND 50% AT LOW PER IRC SECTION R806.2: 40% MIN, BUT NOT MORE THAN 50% OF VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A MIN 3'-0" ABOVE EAVE BASE OF CALCULATION: (a) OFF RIDGE VENTS - STAMPCO W/ 5G 50 IN (NVA) PER LINE FT (b) SOPRIT VENTS - 6" T3-1/3" FULL VENT PERFORMED W/ 9.19 SQ IN (NVA) PER LINE FT CALCULATED UNDER A FOOT OF SOPRIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED SOPRIT LOCATED LESS THAN 5' FROM PROPERTY LINE					
AREA (SQ FT)	REQUIRED	PROPOSED			
	HIGH	LOW	VENTS (SQ IN)	LINEAL FT	LOW (SQ IN)
RIDGE 117'0" VENT = 214 SQ IN LOW 117'0" LINEAL FT = 31.9 SQ IN					
SOPRIT TABLE VENT SPECS					
Double 5' perforated soffits have a 6.20 sq. inch/sq. foot rating					
Triple 4' center vent soffit has a 1.956 sq. inch/sq. foot rating					
Triple 4' full vent soffit has a 5.667 sq. inch/sq. foot rating					
Triple 4' basketweave full vent has a 14.34 sq. inch/sq. foot rating					
Triple 4' center vent has a 4.78 sq. inch/sq. foot rating					
Beaded hidden vent soffit has 2.66 sq. inch/sq. foot rating					
Triple 3-1/3" hidden vent soffit has a 9.19 sq. inch/sq. foot rating					

NOTE
7/16" O.S.B. NAILED WITH 8D 6" O.C. IN FIELD & 4" O.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 8", maximum spacing of 42" o.c., may be used in lieu of 5/8"x10" anchor bolts with 3"x3"x1/8" washer. 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

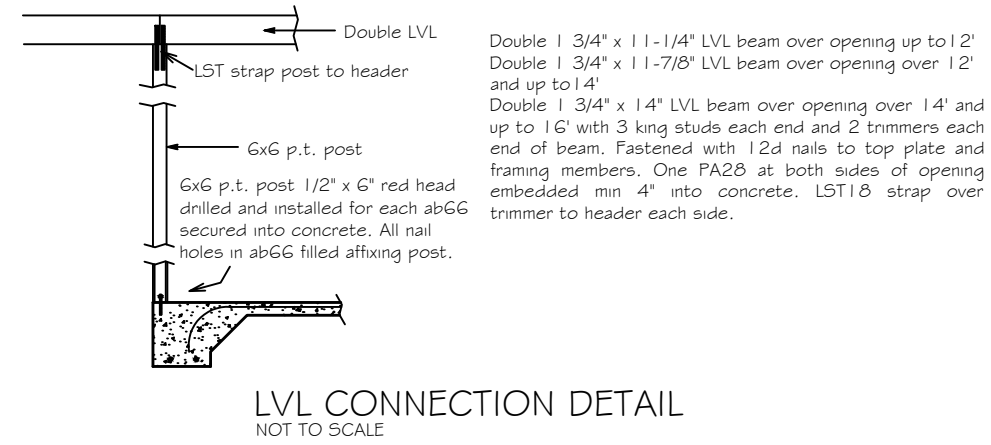
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

Drip Edge Installed Over the Underlayment at Rakes and Under the Underlayment at Eaves

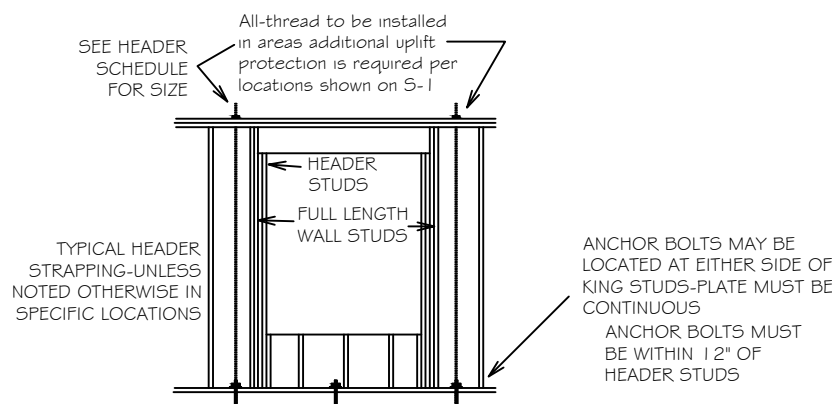
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURERS SPECS

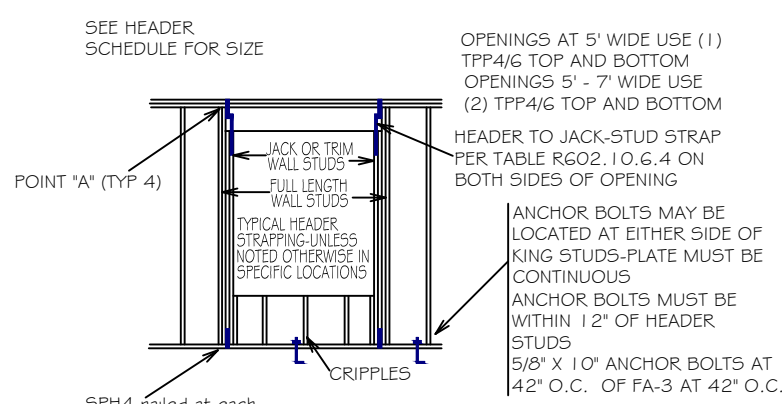
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



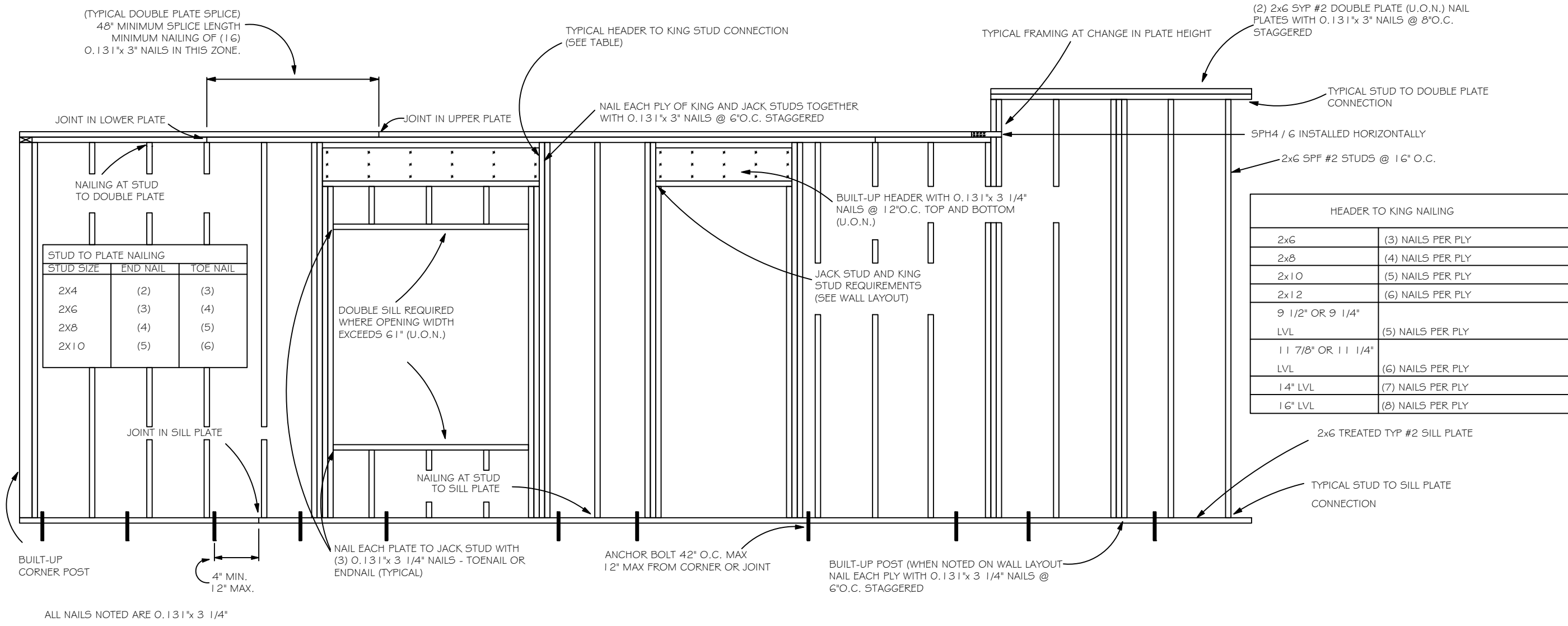
LVL CONNECTION DETAIL
NOT TO SCALE



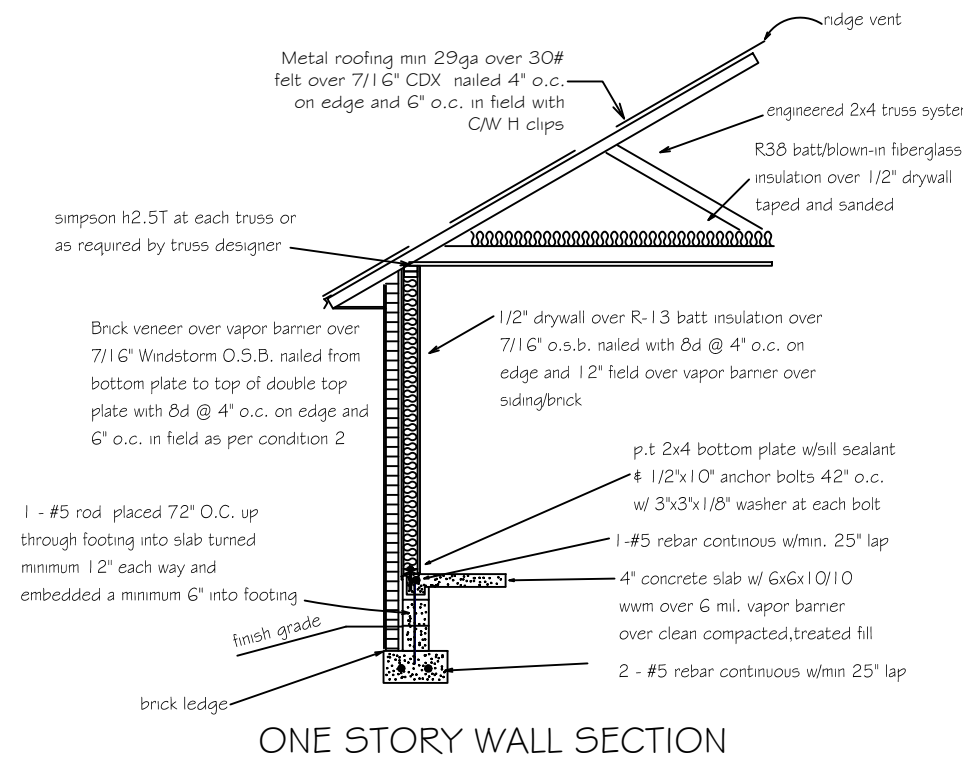
TYPICAL ALL THREAD DETAIL
NOT TO SCALE



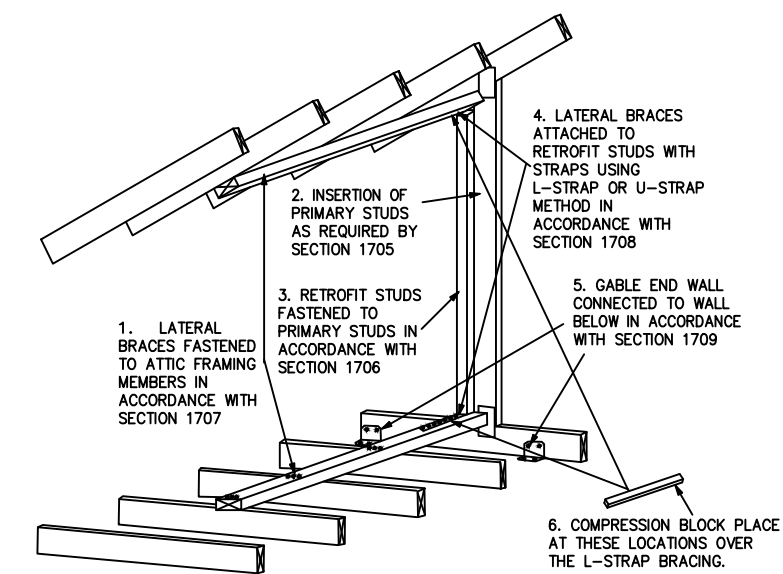
TYPICAL HEADER STRAPPING
NOT TO SCALE



TYPICAL WALL FRAMING
NOT TO SCALE

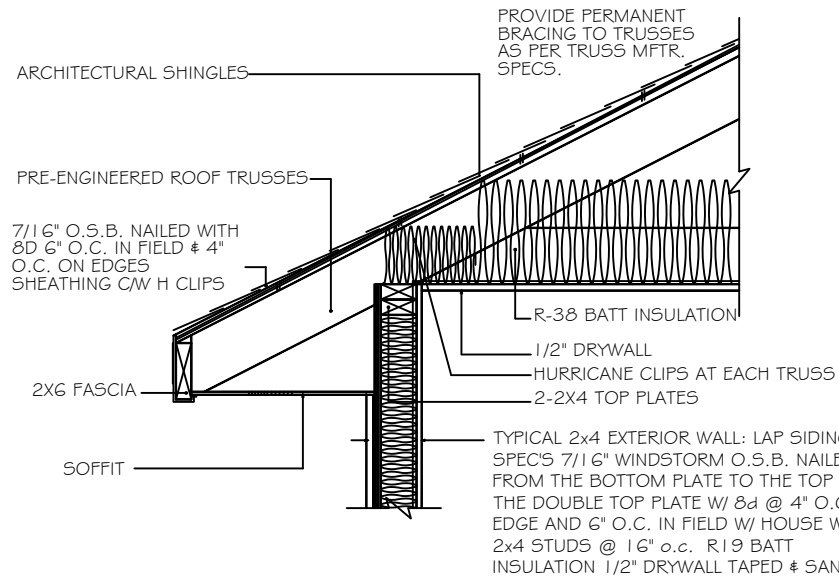


ONE STORY WALL SECTION



THIS FIGURE SHOWS A TRUSS GABLE END USING THE L-BENT STRAP METHOD IN ORDER TO SHOW STRAPS, COMPRESSION BLOCKS ARE NOT SHOWN. THE METHODOLOGY FOR A CONVENTIONALLY FRAMED GABLE END IS SIMILAR. NOT ALL DETAILS ARE SHOWN.

GABLE END BRACING
NOT TO SCALE

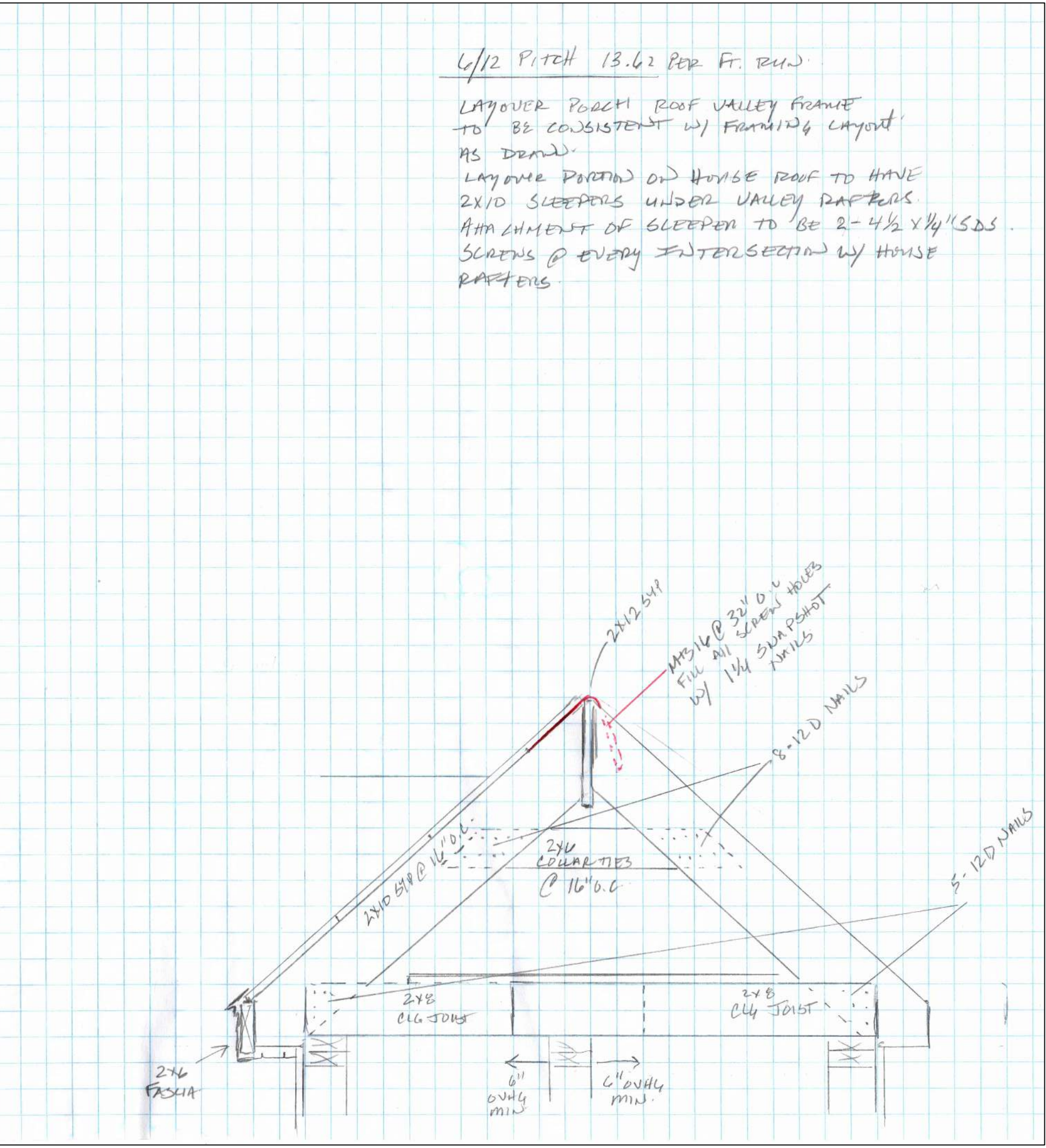
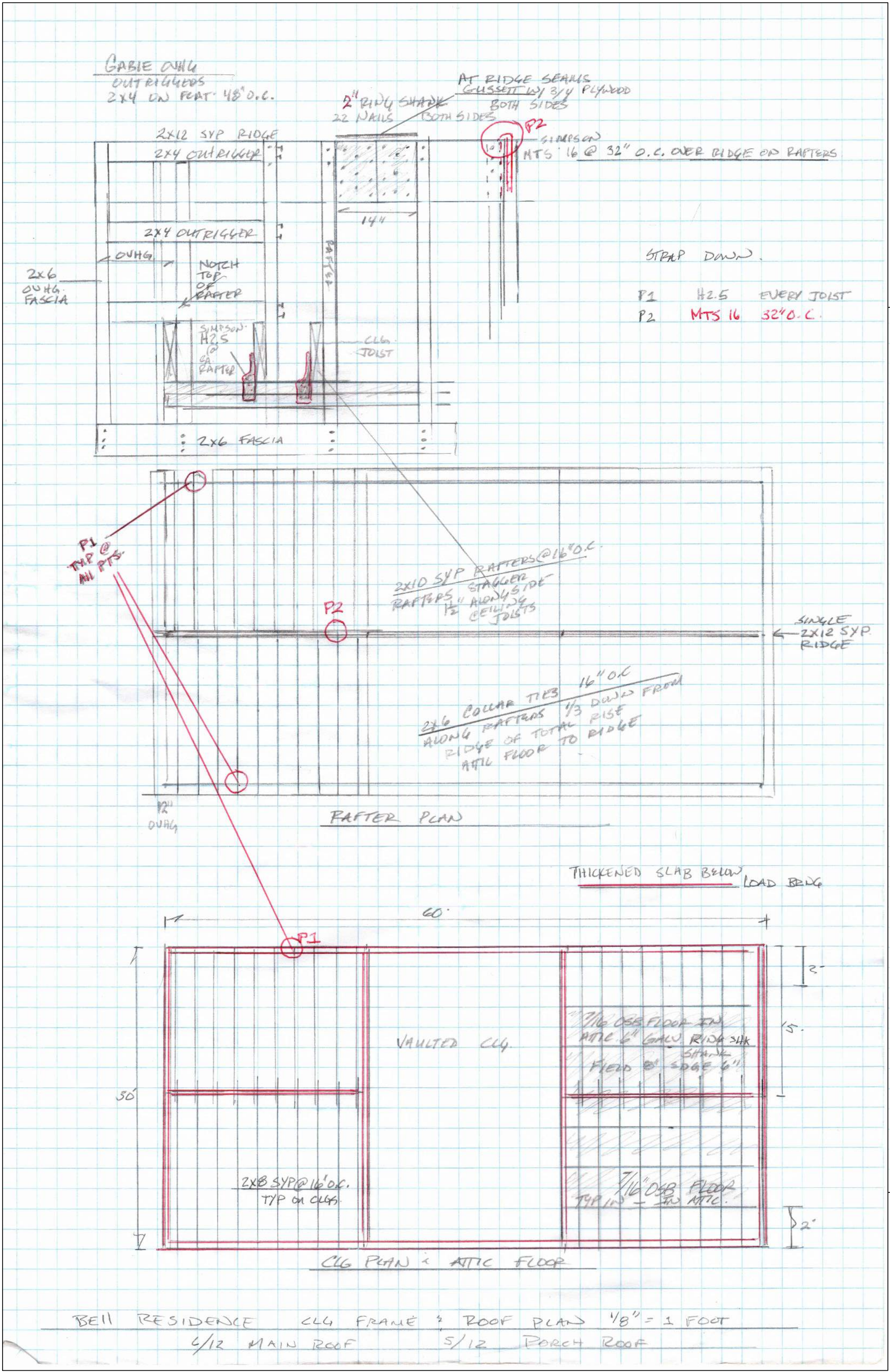


4" STUD EAVE

HEADER SCHEDULE			NOTE:	
2X STUD CONTINUOUS TO TOP PLATE			UPLIFT CONNECTION IS REQUIRED AT EACH END OF HEADER AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS AND AT TOP AND BOTTOM OF CHIFFERS	
2 - 2X STUDS UNDER UNITS WITH OPENINGS LARGER THEN 5'-0"				
OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS	MAXIMUM HEADER SPAN	
0'-0" TO 3'-0"	2 - 2 X 6's	2 - 2 x 4's	2	6
3'-1" TO 5'-0"	2 - 2 x 10's	2 - 2 x 6's	12	15
5'-1" TO 7'-0"	2 - 2 x 10's	2 - 2 x 8's	2	2
7'-1" TO 10'-0"	2 - 2 x 10's	2 - 2 x 10's	2	2
			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
			2	



Digitally signed by Carol Chadwick
DN: cn=US, o=Florida,
dnQualifier=A01410D0000017E86,
D924CE0005954C, cn=Carol
Chadwick
Date: 2022.03.27 19:42:59 -0400



Digitally signed by
Carol Chadwick
DN: cn=US,
o=Florida,
dnQualifier=A014
10000000176860
924CE0005554C,
cn=Carol
Chadwick
Date: 2022.03.27
1943:16-04'00'

Professional Engineer
State of Florida
No. 10000000176860
Exp. 12/31/2025
Carol Chadwick
carol@chadwick.com
407-271-1000

BELL RESIDENCE
ROOF FRAMING PLAN

1/22/2024
MAR 27 2022
CAROL CHADWICK

5-3