

- DESIGN CODES:
2017 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
ASCE 7-10, 2005
NDS, ACI, ATIC, AWPA, APA, ICC 600-08

- 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

- MAXIMUM HEIGHT OF STRUCTURE: 28'-5"

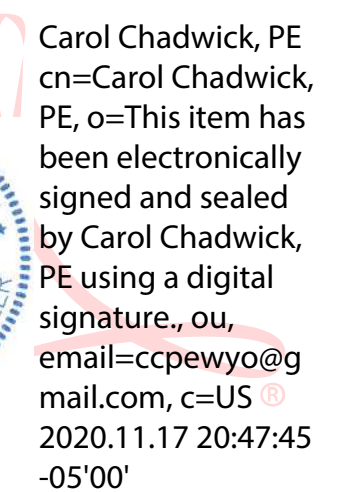
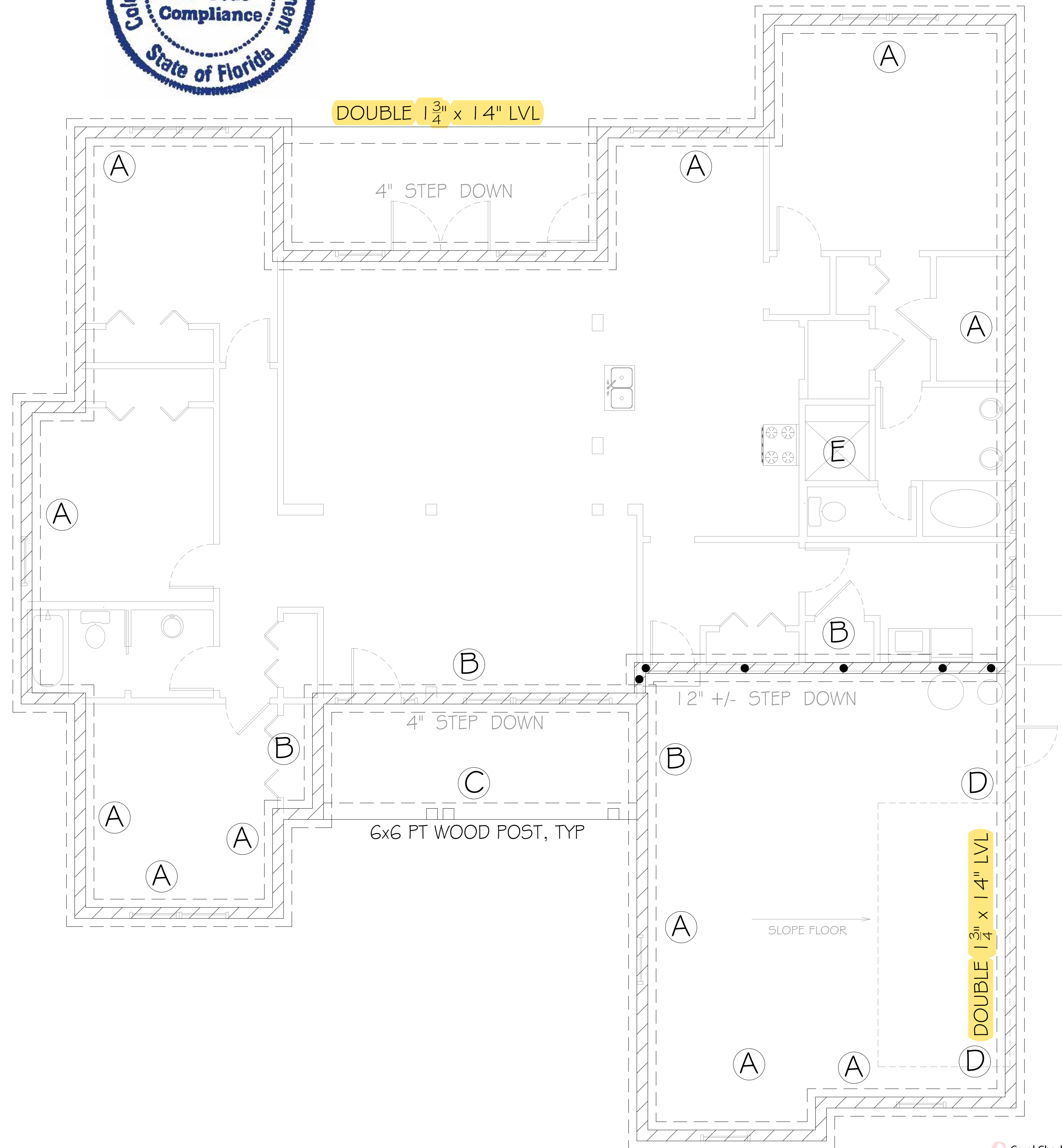
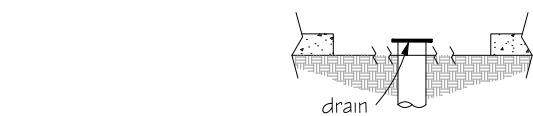
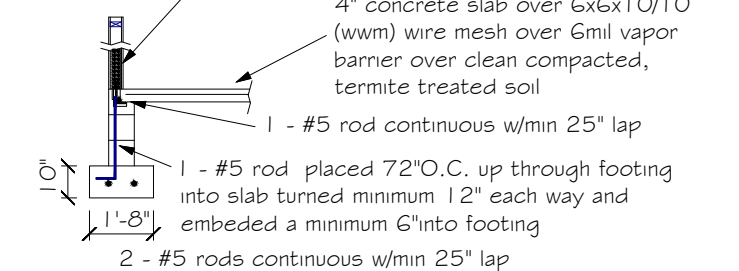
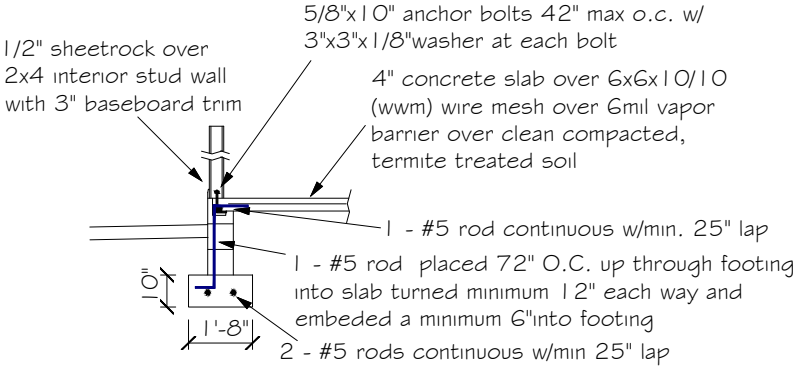
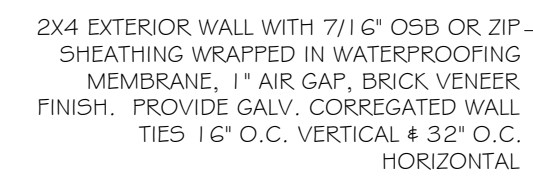
- NUMBER OF STORIES: 1

- 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 C

● 3/8" A307 DIAMETER THREADED ROD TERMINATES AT TOP PLATE PER DETAIL ON S-2

1. REFER TO ARCHITECTURAL & BUILDING PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC.
2. CONTRACTOR SHALL VERIFY ALL ROUGH FLOORING LOCATIONS WITH OWNER PRIOR TO POURING SLAB.
3. THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED W/ 6X6-1/4" I. 4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" GAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL.
4. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES. SECTION R403.1.4

[illegible]

ROOF VENT CALCULATION

FORMULA

1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING
(144 SQUARE INCHES = 1 SQUARE FOOT
BUILDING CEILING (SQ FT) X 1.44 = 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 FBC SECTION R803.2: 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 SQ IN (IN/VA) PER LINEAL FT

(b) SOFFIT VENTS - 1" T3-1/2" FULL VENT PERFORMED W/ 9.19 SQ IN (IN/VA) PER LINEAL FT

CALCULATED LINEAL FOOT OF SOFFIT VENT SHALL NOT INCLUDE
NON-VENTED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM
PROPERTY LINE

AREA (SQ FT)	REQUIRED VENTS	PROVIDED VENTS	LOW (SQ IN)	LOW (SQ IN)
ROOF 111'0" VENT = 214.5 SQ IN				
LOW (111'0" LINEAL FT = 31.9 SQ IN				

SOFFIT TABLE VENT SPECS

Double 5' perforated soffits have a 6.20 sq. inch/sq. foot rating

Triple 4' center vent soffits has a 1.95 sq. inch/sq. foot rating

Triple 4' full vent soffits has a 5.67 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 soffits has a 2.66 sq. inch/sq. foot rating

Triple 3-1/2" hidden vent soffits 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

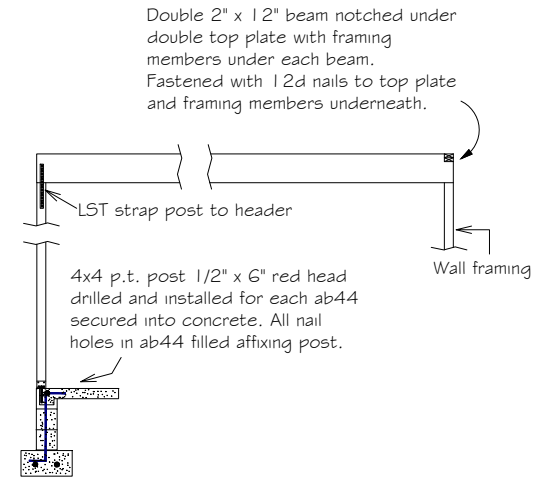
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

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

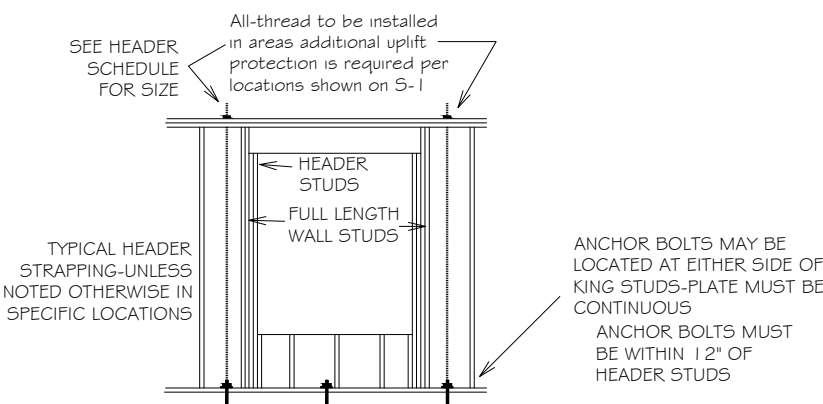
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

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

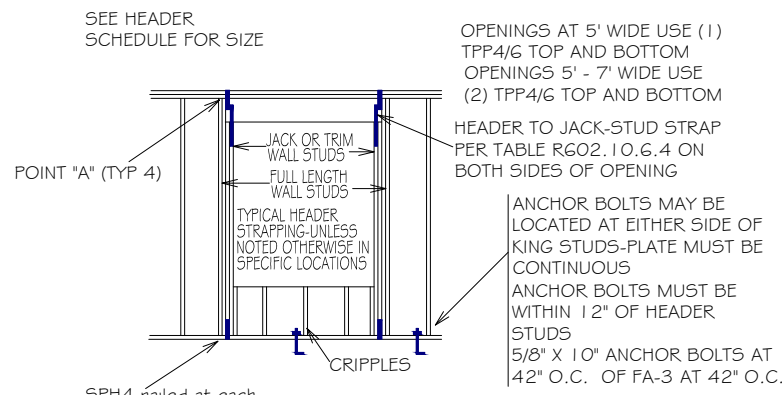
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



BEAM CONNECTION DETAIL
NOT TO SCALE

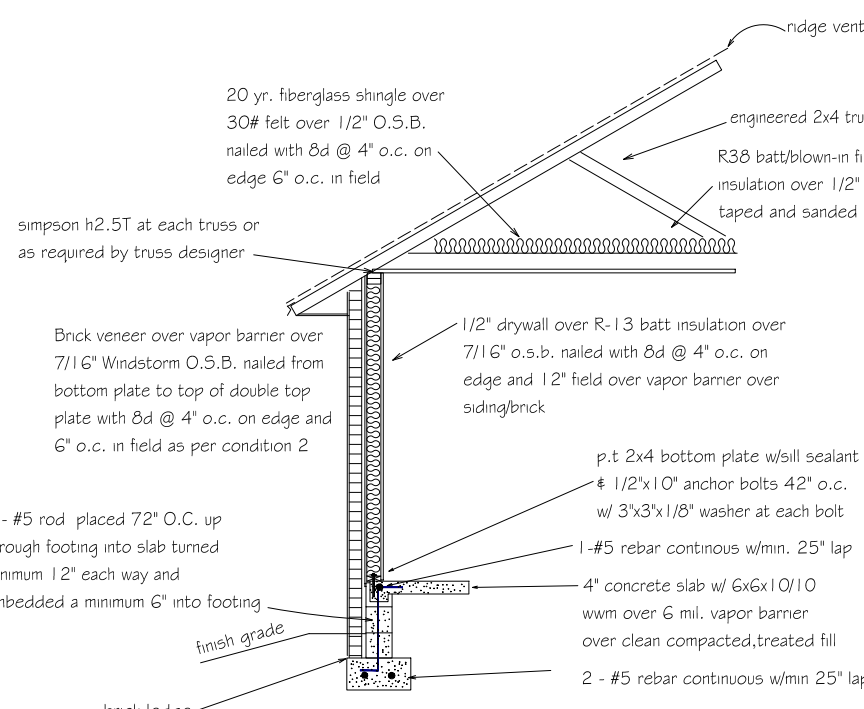


TYPICAL ALL THREAD DETAIL
NOT TO SCALE

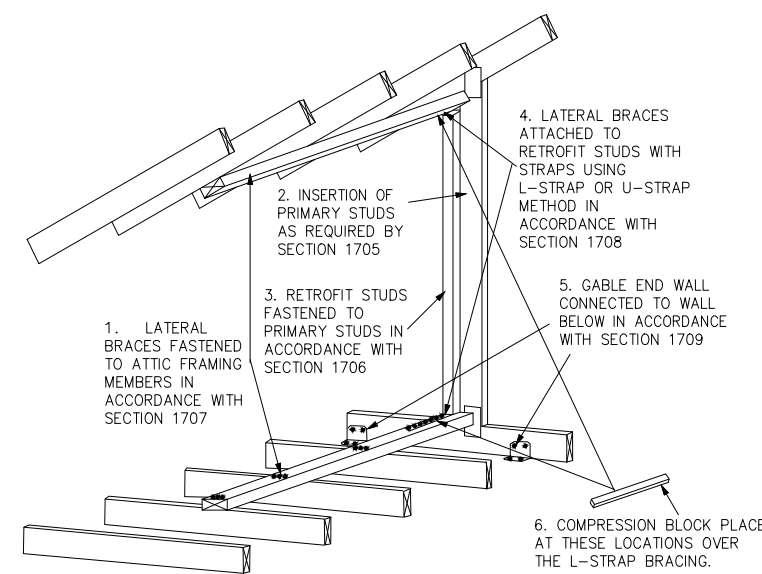


TYPICAL HEADER STRAPPING
NOT TO SCALE

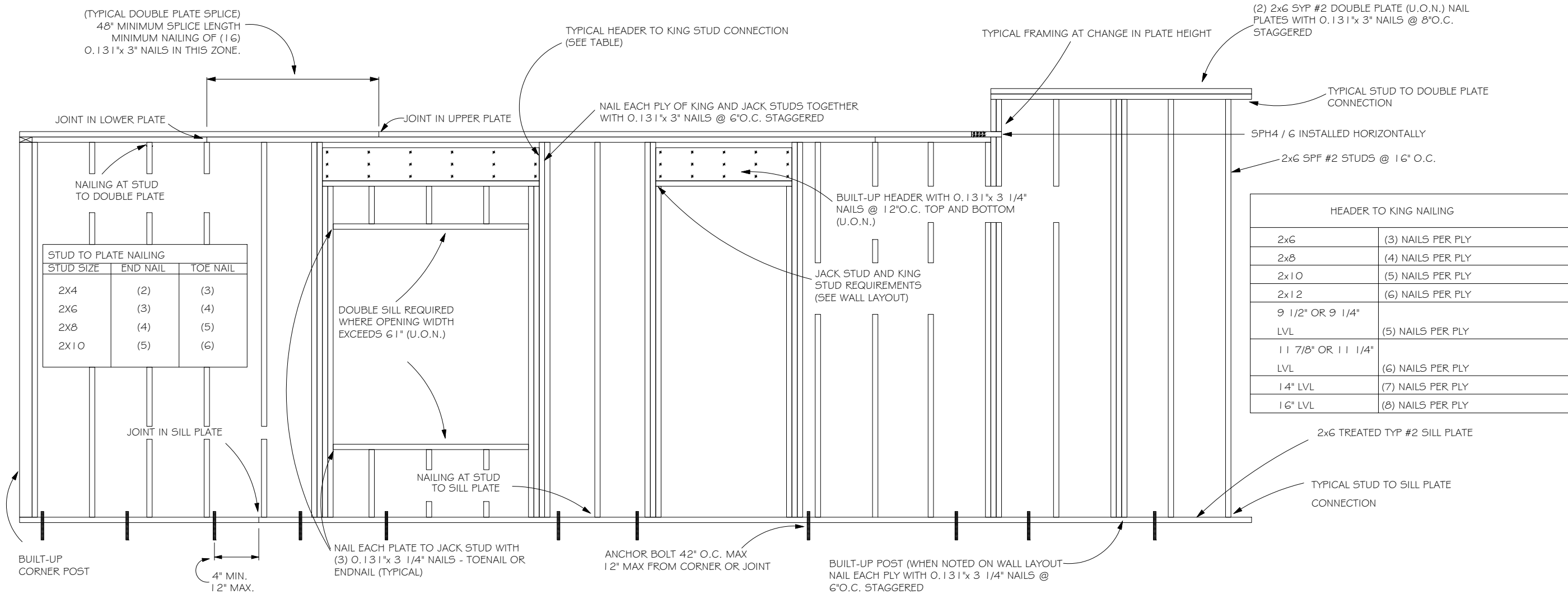
Double 1 3/4" x 9-1/4" LVL beam over opening up to 12' and up to 14'
Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'
Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One FA2B at both sides of opening embedded min 4" into concrete. LST1B strap over trimmer to header each side.



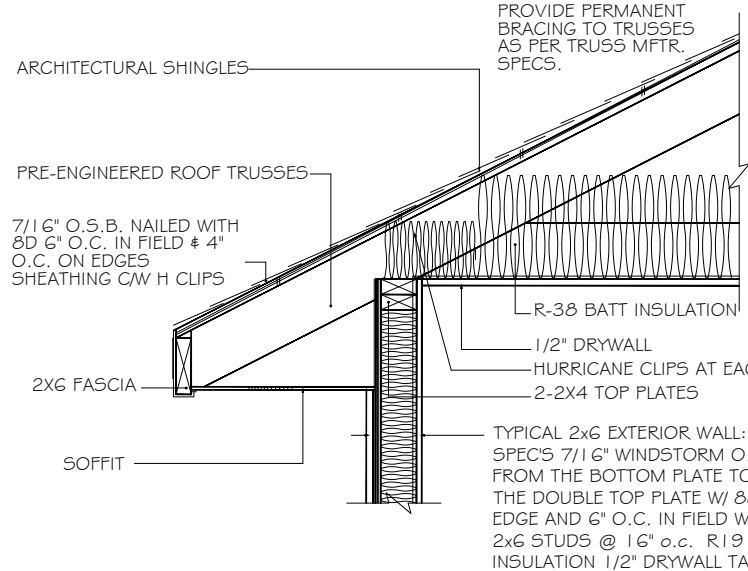
ONE STORY WALL SECTION



GABLE END BRACING
NOT TO SCALE



TYPICAL WALL FRAMING
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 CRIPPLES	
HEADER - CONTINUOUS				
2 - 2X STUDS UNDER UNITS WITH OPENINGS LARGER THEN 5'-0"				
MAXIMUM HEADER SPAN			NUMBER OF HEADER STUDS (JACKS) SUPPORTING END OF HEADER	
9' 0" 12' 0" 15' 0"			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS		
0'-0" TO 3'-0"	2-2x6s	2 - 2 x 4s		
3'-1" TO 5'-0"	2-2x10s	2 - 2 x 6s		
5'-1" TO 7'-0"	2-2x10s	2 - 2 x 8s		
7'-1" TO 10'-0"	2-2x10s	2 - 2 x 10s		



Carol Chadwick, PE
cnc=Carol Chadwick, PE, o=This Item has been electronically signed and sealed by Carol Chadwick, PE using a digital signature, ou, email=ccpewyo@gmail.com, c=US 2020.11.17 20:48:05 -0500