

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

- DESIGN LOADS:

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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

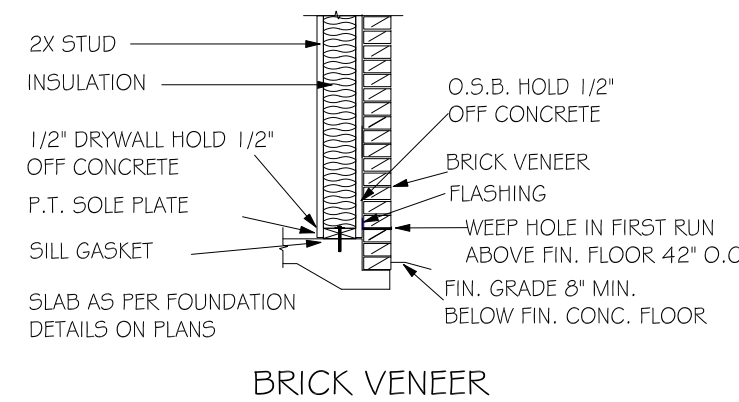
FLOORS:

LL 40 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 10 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD

- NUMBER OF STORIES:

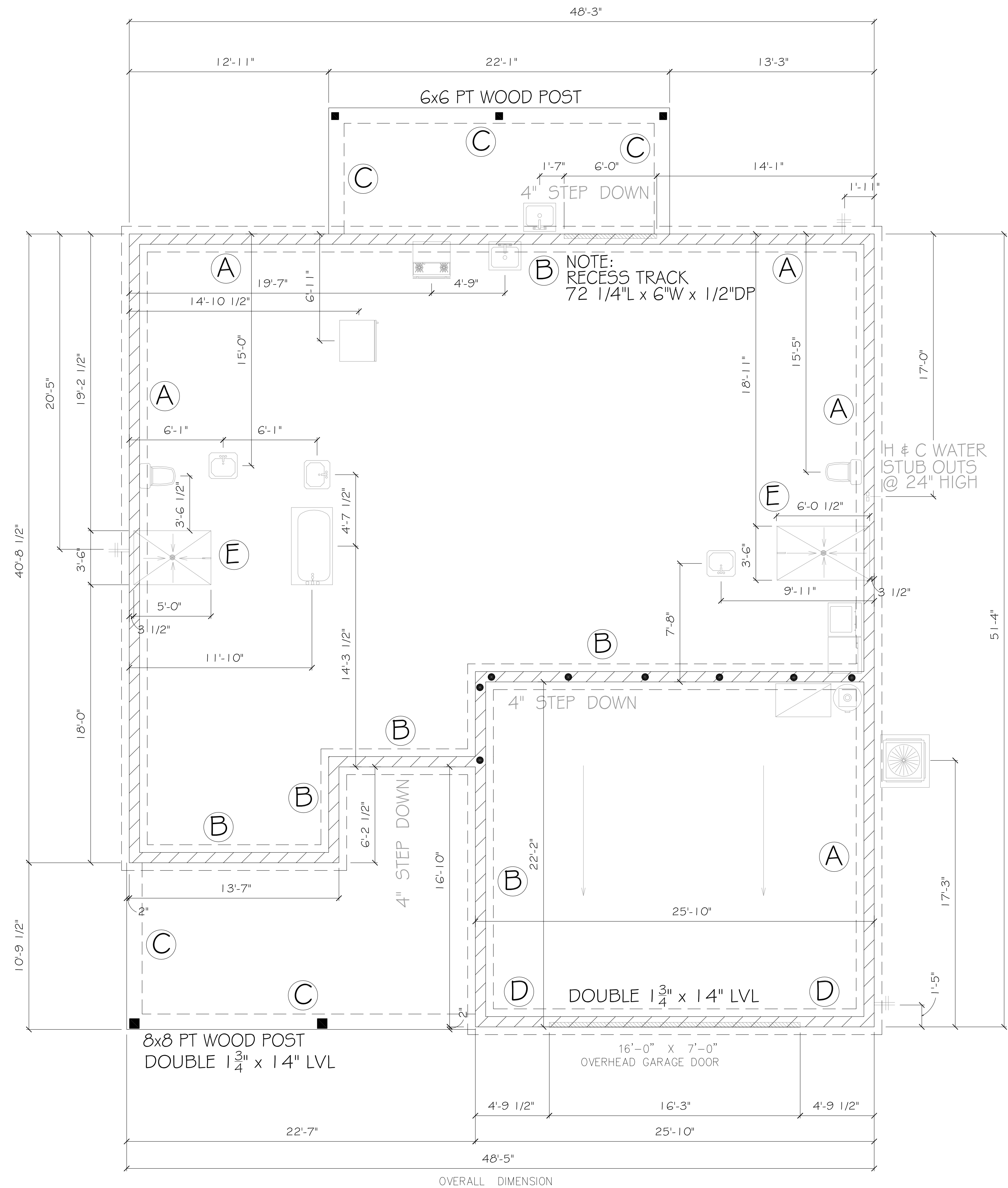
- TYPE OF CONSTRUCTION: TYPE V-6, UNPROTECTED, UNSPRINKLERED

- 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



1. REFER TO ARCHITECTURAL & BUILDING PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEPS, DOWNS, ETC.
2. CONTRACTOR SHALL VERIFY ALL ROUGH PLUMBING LOCATIONS WITH OWNER PRIOR TO POURING SLAB
3. THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED W/ GXG-1/4". A WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MI POLY W/ FIBER BARRIER W/ 6" LAPS 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 FDC-RES, SECTION RA03.1.4

● $\frac{3}{8}$ " A307 DIAMETER THREADED
ROD TERMINATES AT TOP
PLATE PER DETAIL ON S-2



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 .44 = BUILDING SQ IN
 BUILDING SQ IN / 300 = SQ IN OF VENT REQUIRED
 50 IN. OF VENT REQUIRED @ 2" = 50% AT HIGH AND 50% AT LOW
 PER IRC SECTION R803.2: 40% MIN. BUT NOT MORE THAN 50% OF
 VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A
 MIN 3' OF ABOVE EAVE

BASE OF CALCULATION:

(a) OFF RIDGE VENTS - STAMPCO W/ 3/8 SQ IN (INVA) PER LINEAL FT
 (b) SOFFIT VENTS - 6" T3-1/3" FULL VENT PERFORATED W/ 9.19 SQ IN
 (INVA) 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 HIGH	REQUIRED LOW	VENTS (SQ IN)	PROVIDED HIGH (SQ IN)	LINEAL FT	LOW (SQ IN)
ROOF 11 1/2' VENT = 214.5 SQ IN LOW (11 1/2' VENT) = 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 1.956 sq. inch/sq. foot rating
- Triple 4' full vent soffits has a 5.267 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
- Basketweave full vent has a 2.66 sq. inch/sq. foot rating
- Triple 3-1/3' 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 DEL. LAYER OF UNDERLAYMENT IS REQUIRED
OVERLAP ROOFING UNDERLAYMENT 4" MIN. OVER HIPPS AND RIDGES

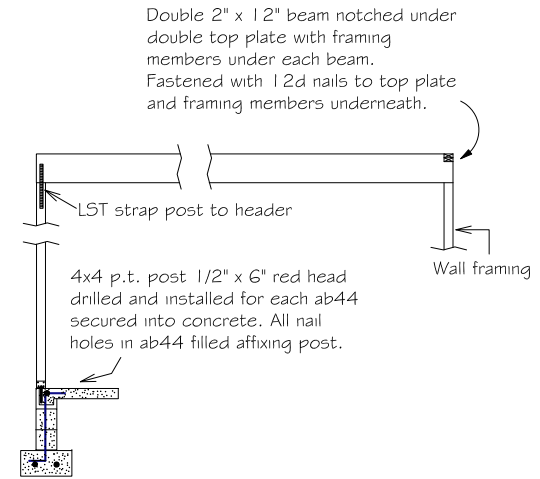
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

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

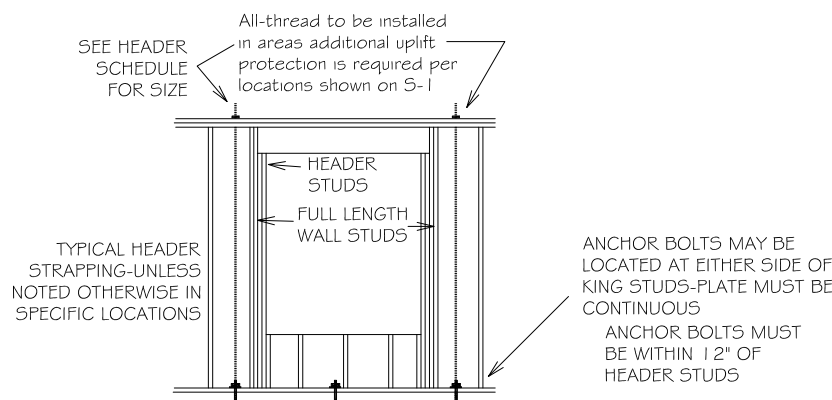
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

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

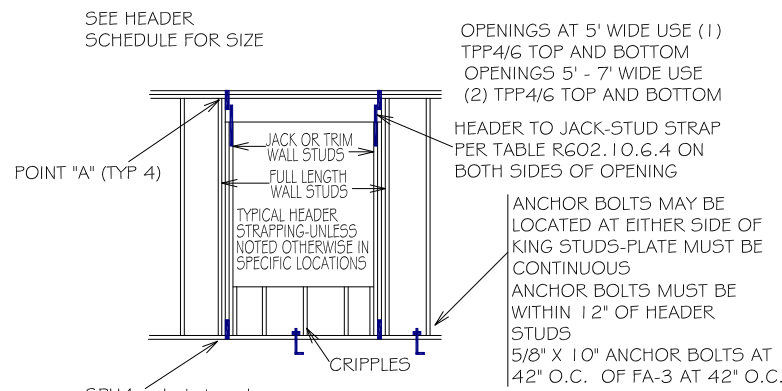
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



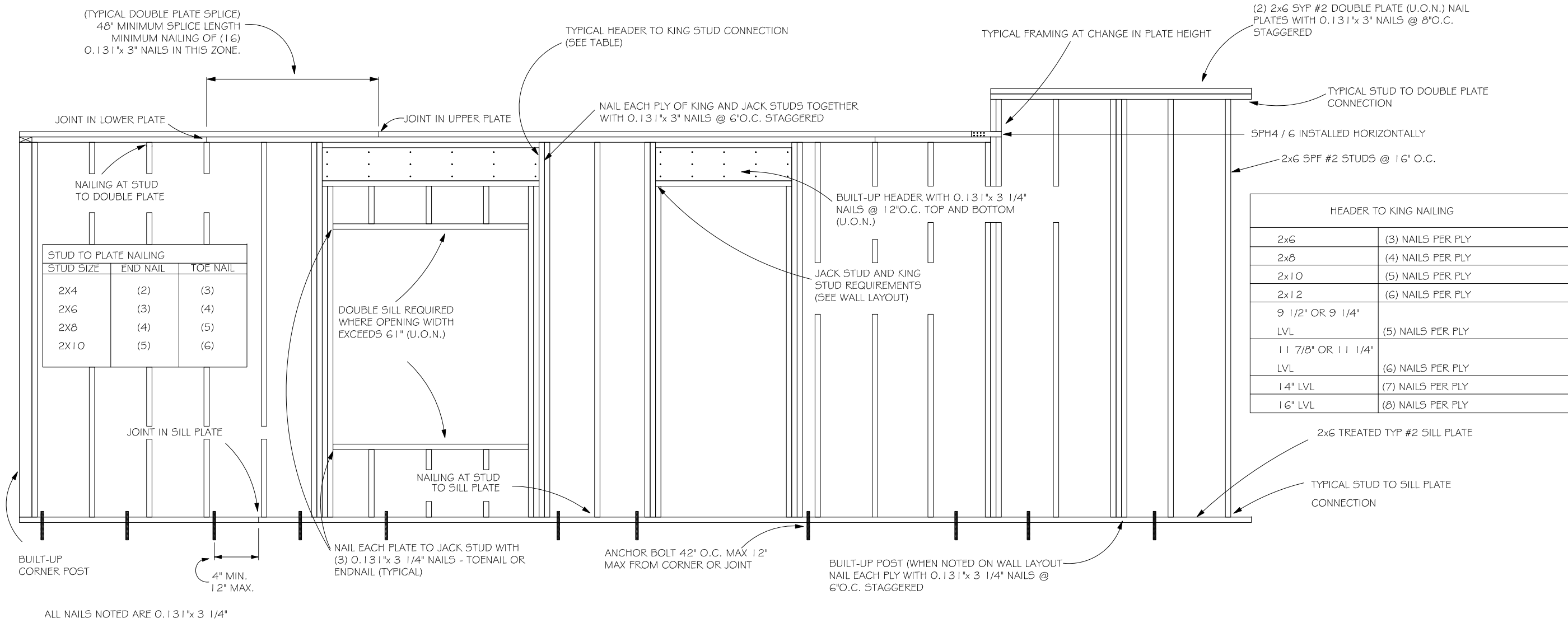
BEAM CONNECTION DETAIL
NOT TO SCALE



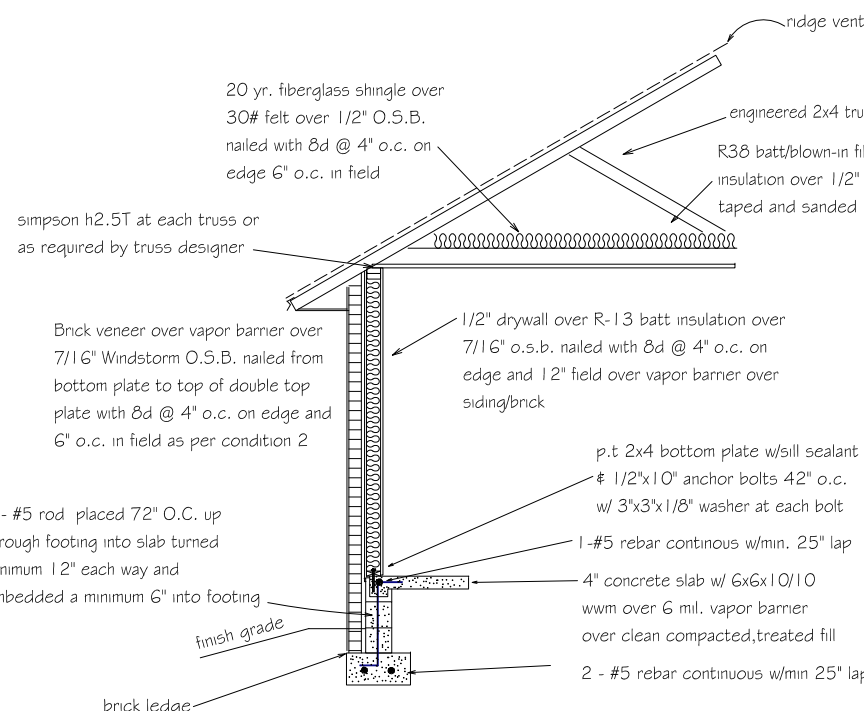
TYPICAL ALL THREAD DETAIL
NOT TO SCALE



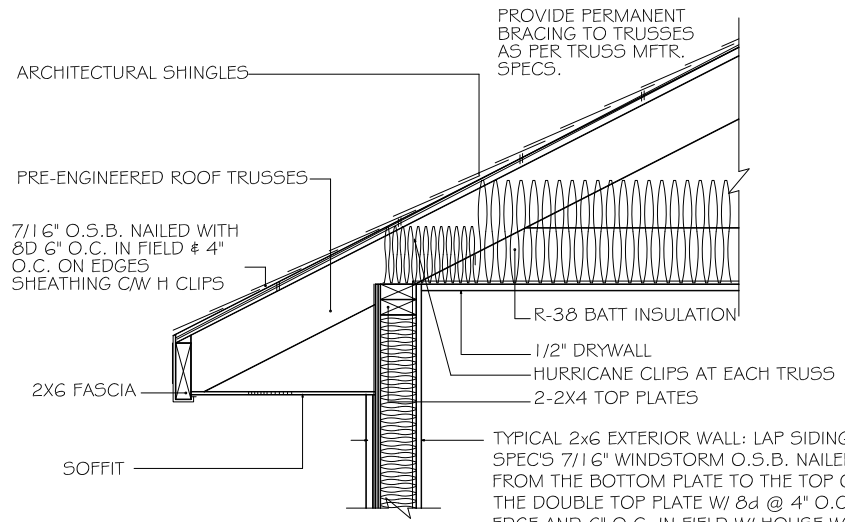
TYPICAL HEADER STRAPPING
NOT TO SCALE



TYPICAL WALL FRAMING
NOT TO SCALE

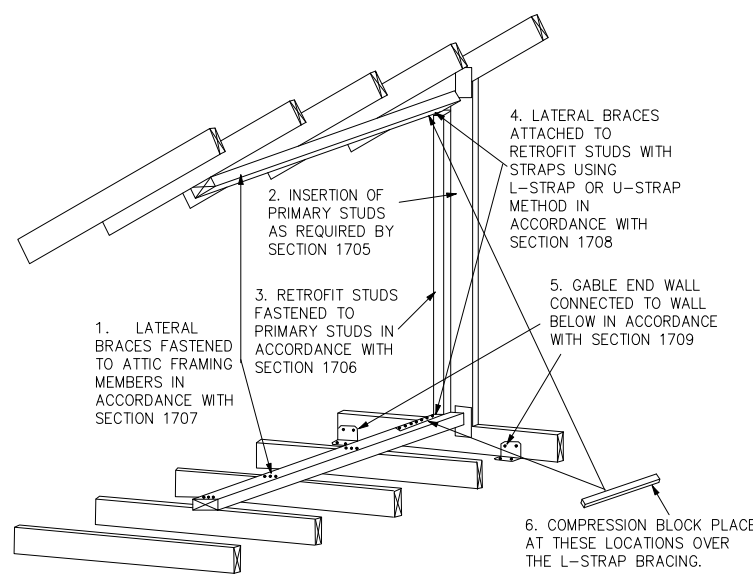


ONE STORY WALL SECTION



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	
2x STUDS UNDER UNITS WITH OPENINGS LARGER THEN 5'-0"				
MAXIMUM HEADER SPAN			NUMBER OF HEADER STUDS (JACKS) SUPPORTING END OF HEADER	
3' 6' 9' 12' 15' 18'			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
			2	
OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS		
0'-0" TO 3'-0"	2 - 2 x 6s	2 - 2 x 4s		
3'-1" TO 5'-0"	2 - 2 x 10s	2 - 2 x 6s		
5'-1" TO 7'-0"	2 - 2 x 10s	2 - 2 x 8s		
7'-1" TO 10'-0"	2 - 2 x 10s	2 - 2 x 10s		



GABLE END BRACING
NOT TO SCALE