

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

- DESIGN LOADS

## DOOFER, J. G.

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

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

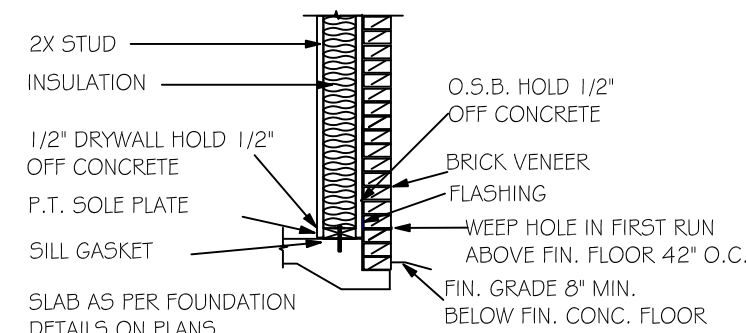
FLOORS:  
LL 40 PSF TOP CHORD  
LL 0 PSF BOTTOM CHORD  
DL 10 PSF TOP CHORD  
DL 5 PSF BOTTOM CHORD

- NUMBER OF STORIES:

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

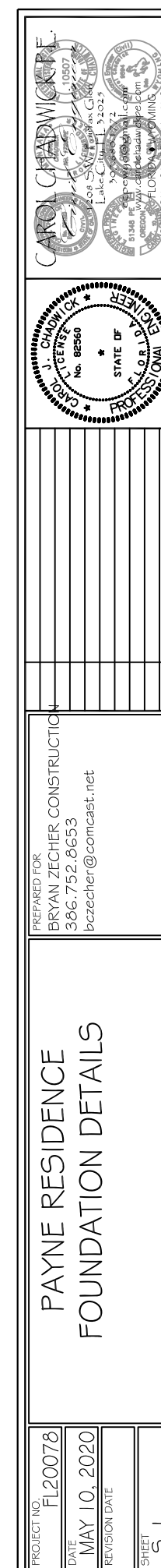
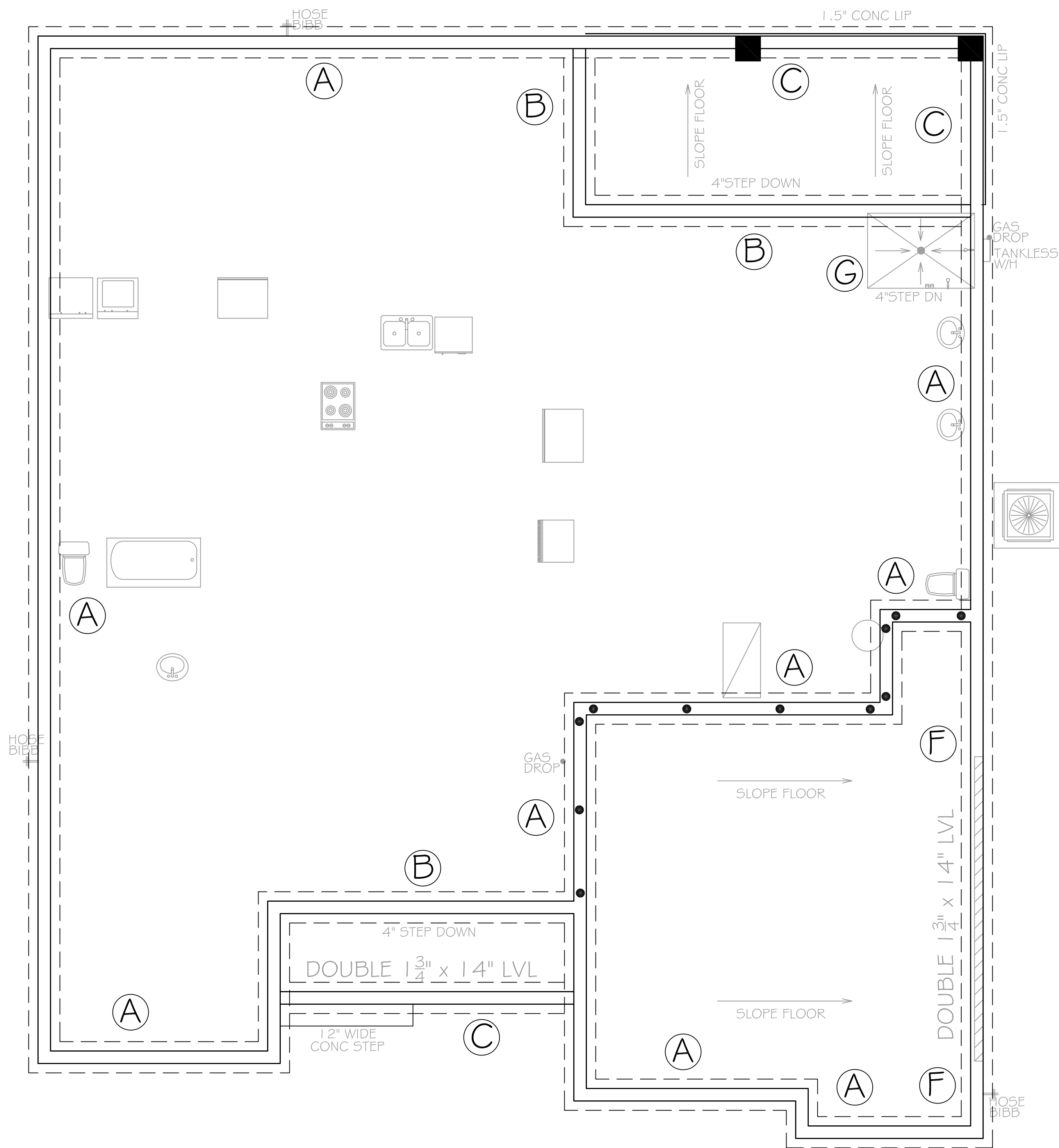
## BUILDING: ENCLOSED STR

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 ±



1. REFER TO ARCHITECTURAL & BUILDING PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP 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/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS. 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-M 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 PEC-BES, SECTION R403.1.4

●  $\frac{3}{8}$ " 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 SQ IN OF VENT REQUIRED ÷ 2 = SQ IN 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' 0" ABOVE GAVE 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	PROVIDED HIGH (SQ IN)	LINEAL FT	LOW (SQ IN)
SOFFIT 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 5.267 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 Beaded hidden vent soffit has a 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.

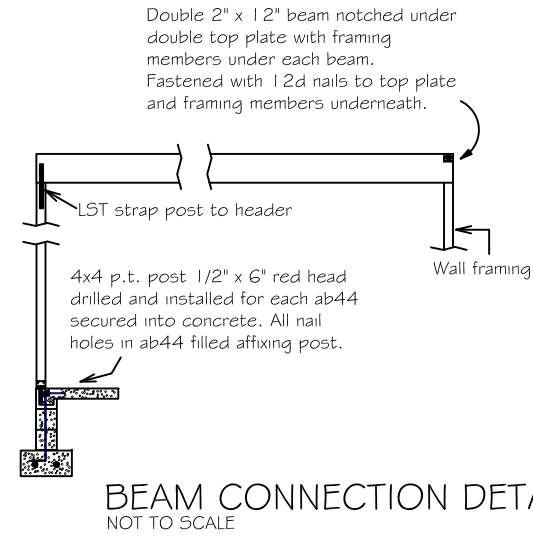
Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 8", maximum spacing of 42" o.c., may be used in lieu of 5/8"x10" anchor bolts with 3"x3"x1/8" washer. Titen HD Heavy-Duty Screw Anchors shall be installed per manufacturer's specifications.

### ROOF SHEATHING FASTENING

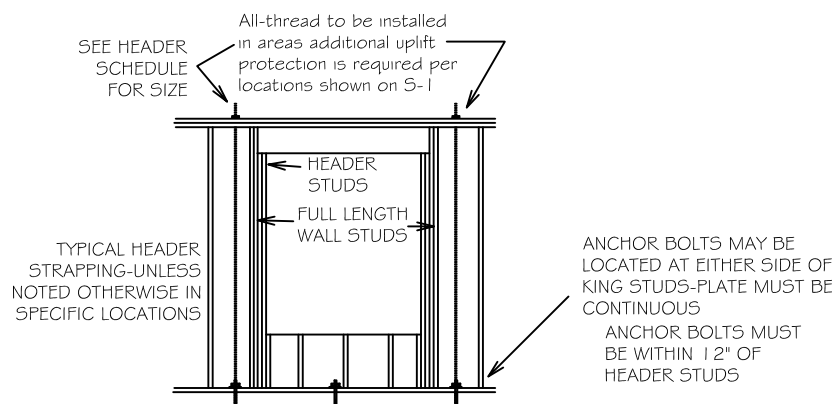
- 4" O.C. GABLE END
  - 6" O.C. EDGES (ALL ZONES)
  - 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
  - 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)
- SEE FIGURE R803.2.3.1, SECTION R803.1, 2017 FLORIDA BUILDING CODE - RESIDENTIAL, SIXTH EDITION FOR ROOF SHEATHING NAILING ZONES

### ROOF NOTES

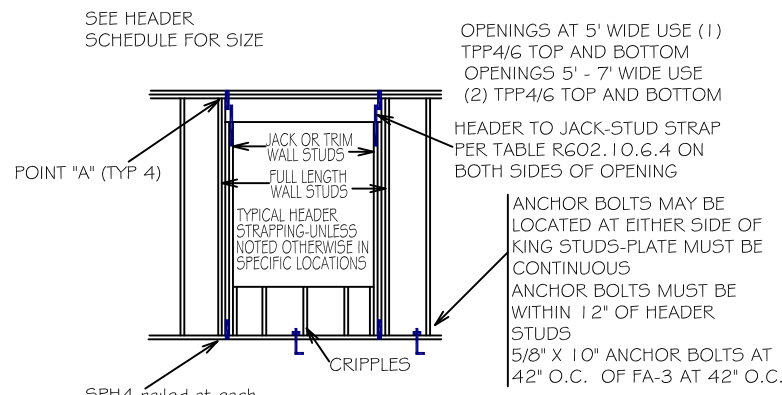
ROOF PITCH LESS THAN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED  
OVERLAP ROOFING UNDERLAYMENT 4"MIN OVER HIPPS AND RIDGES  
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY  
DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT 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



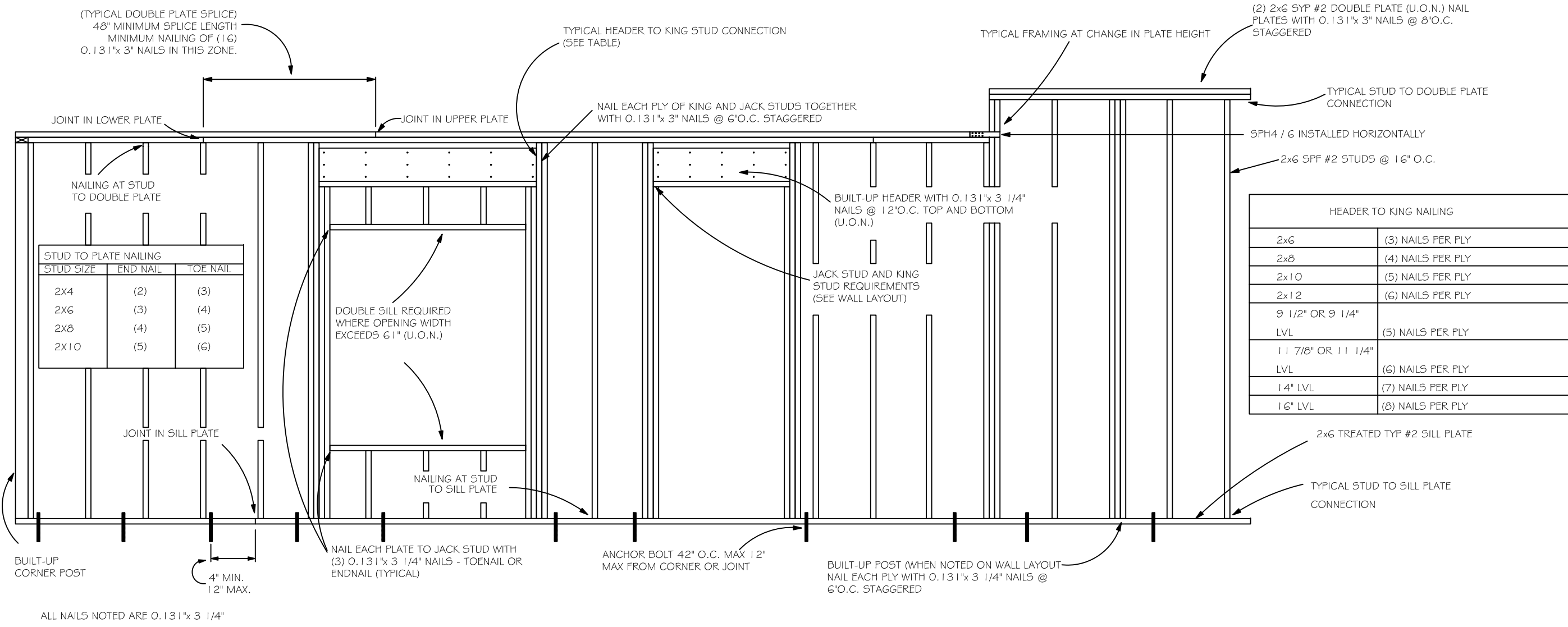
BEAM CONNECTION DETAIL  
NOT TO SCALE



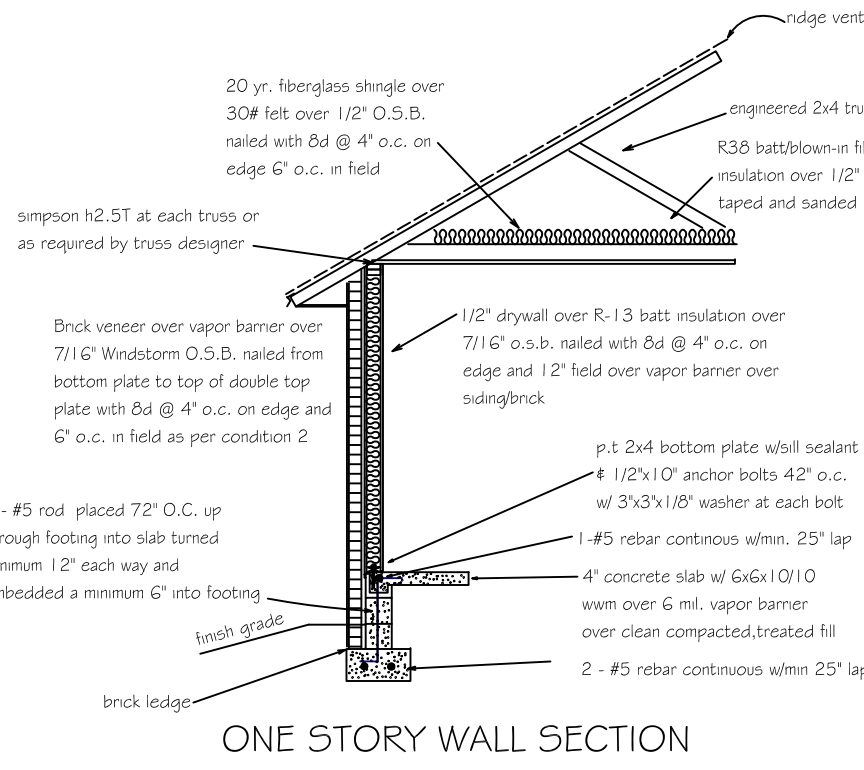
TYPICAL ALL THREAD DETAIL  
NOT TO SCALE



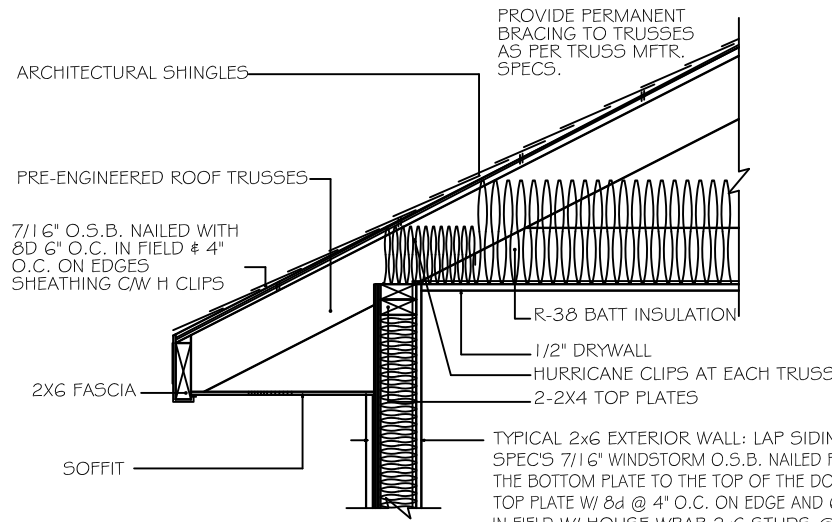
TYPICAL HEADER STRAPPING  
NOT TO SCALE



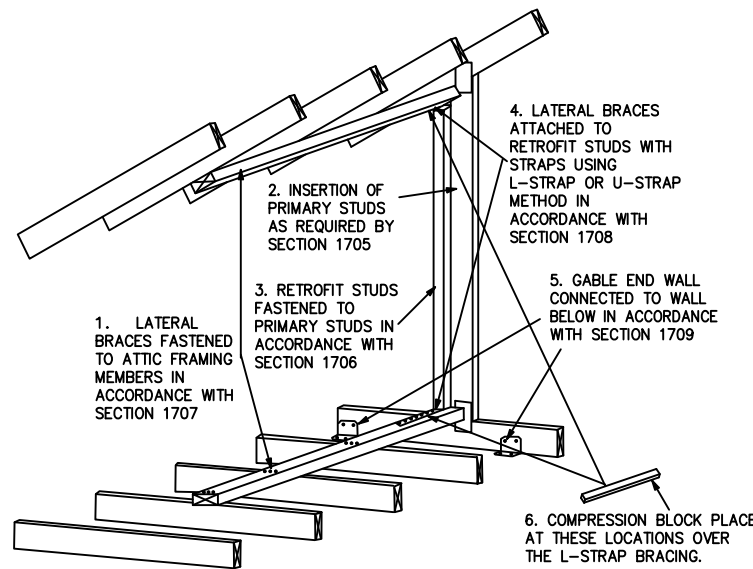
TYPICAL WALL FRAMING  
NOT TO SCALE



ONE STORY WALL SECTION



4" STUD EAVE



GABLE END BRACING  
NOT TO SCALE

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 THAN 5'-0"			MAXIMUM HEADER SPAN	
			2' 6' 9' 12' 15' 18'	
			NUMBER OF HEADER STUDS (JACKS) SUPPORTING END OF HEADER	
			1 1 2 2 2 2	
			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		