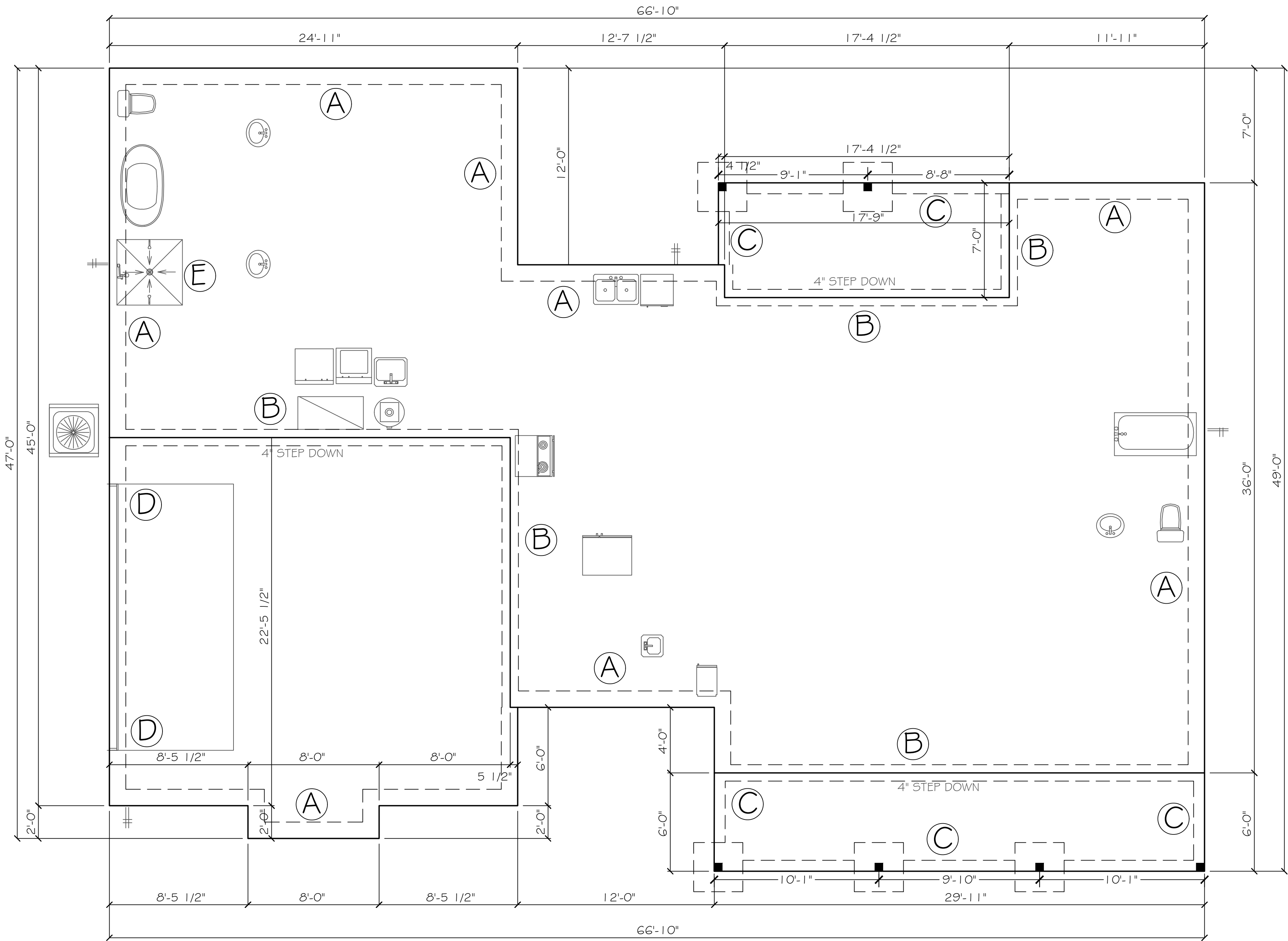


DESIGN SPECIFICATIONS

- DESIGN CODES:
2023 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
- 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 CGP1 ±

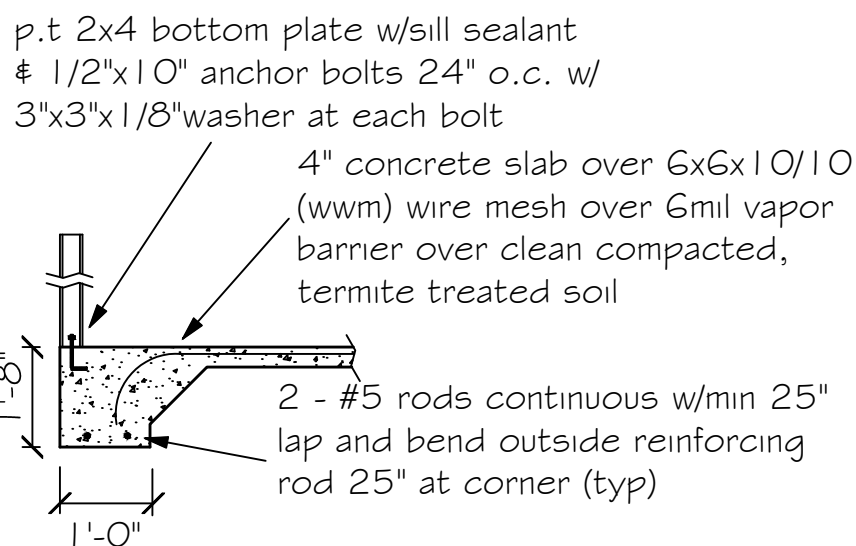
FOUNDATION NOTES

- 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" WELDED WIRE MESH PLACED ON CHAIRS 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
- SOIL UNDER FOOTING SHALL BE COMPRESSED TO 2000 PSF AT 95% DENSITY. CONCRETE STRENGTH SHALL BE 2500 PSI.

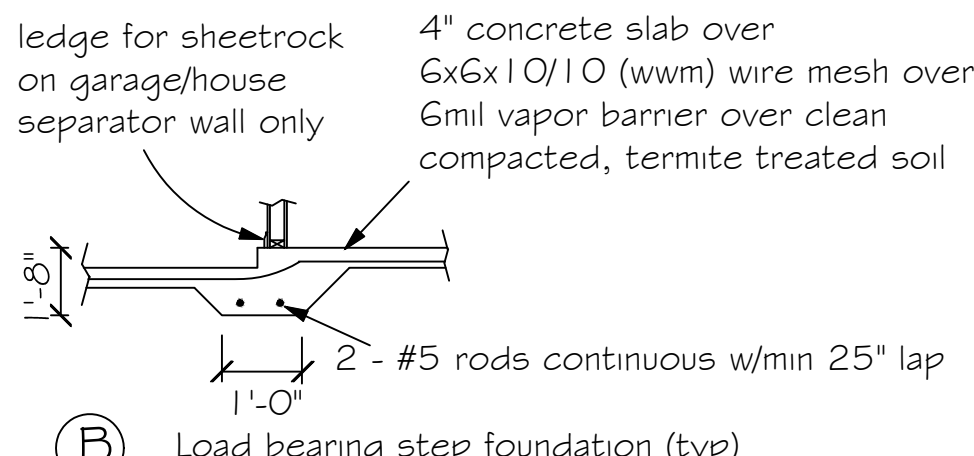


FOUNDATION PLAN

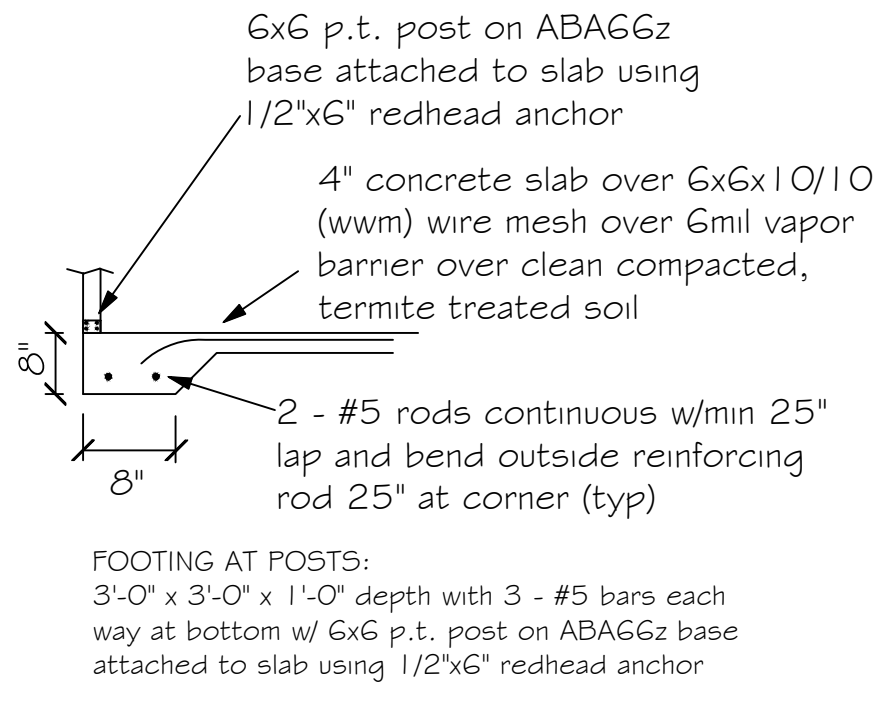
SCALE: 1/4" = 1'



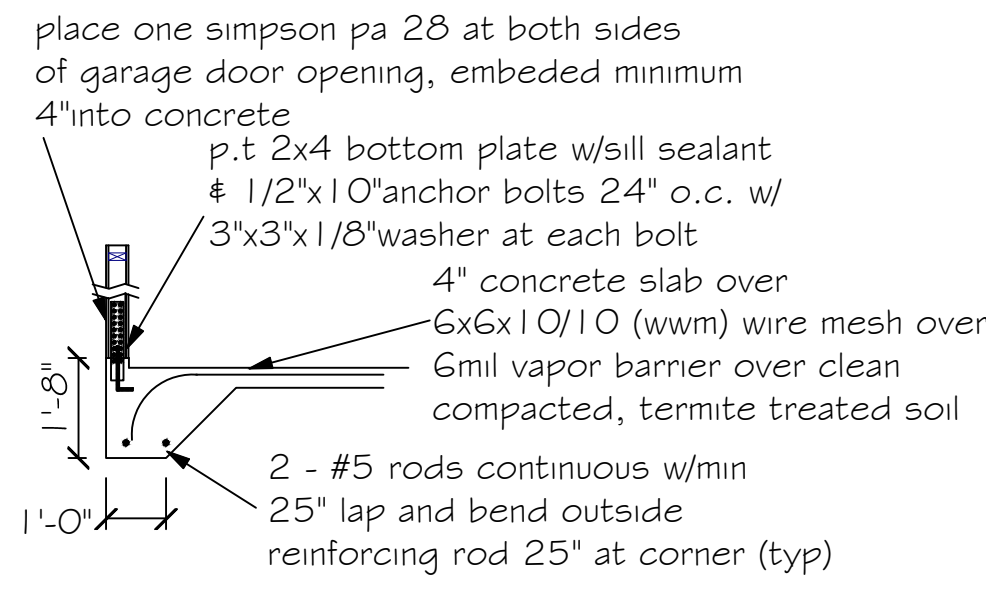
A Monolithic slab detail



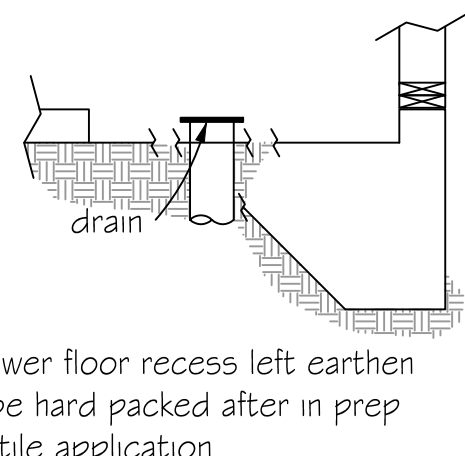
B Load bearing step foundation (typ)



C Monolithic slab detail at porch/carport



D Monolithic slab detail at garage



E Recessed Shower Detail

Digitally signed by Carol Chadwick
DN: c=US,
o=Florida,
ou=Qualifier-A0141
0D0000018D46384
E7500032FEE,
cn=Carol Chadwick
Date: 2024.06.04
17:47:59 -0400

CAROL CHADWICK, P.E. Professional Engineer No. 12580 Exp. 12/31/2026 FLORIDA	
REGISTERED FOR HAPPY HOME CONSTRUCTION 15000 N. W. 10th Ave., Suite 100 Miami, FL 33150 arew@happyhomes-construction.com	
THE CYPRESS - MODEL A FOUNDATION PLAN	
DATE: 06/04/2024 REVISION DATE: 06/04/2024	FIG: 24274 SHEET: 5-1

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 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 R803.2.4, 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/ 36 SQ IN (IN/VA) PER LINEAL FT

(b) SOFFIT VENTS - 2" T3-1/3" FULL VENT PERFORATED W/ 9-19 SQ IN (IN/VA) PER LINEAL FT

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

AREA (SQ FT)	REQUIRED (SQ IN)	VENTS	PROVIDED (SQ IN)	NEAR (SQ IN)	LOW (SQ IN)
	TRIGHT	LOW	TRIGHT	LINEAL FT	LOW

SOFFIT TABLE VENT SPECS									
Double 5" perforated soffits have a 6.20 sq. inches/bay, foot rating									
Triple 4" center vent soffits has a 1.956 sq. inches/bay, foot rating									
Triple 4" full vent soffits has a 5.667 sq. inches/bay, foot rating									
Triple 4" basketweave full vent has a 14.34 sq. inches/bay, foot rating									
Triple 4" center vent has a 4.79 sq. inches/bay, foot rating									
Beaded hidden vent soffits has 2.66 sq. inches/bay, foot rating									
Triple 3-1/2" hidden vent soffits has a 9.19 sq. inches/bay, 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 24" 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 THEN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED

OVERLAP ROOFING UNDERLAYMENT 4"(MIN) OVER HIPS AND RIDGES

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

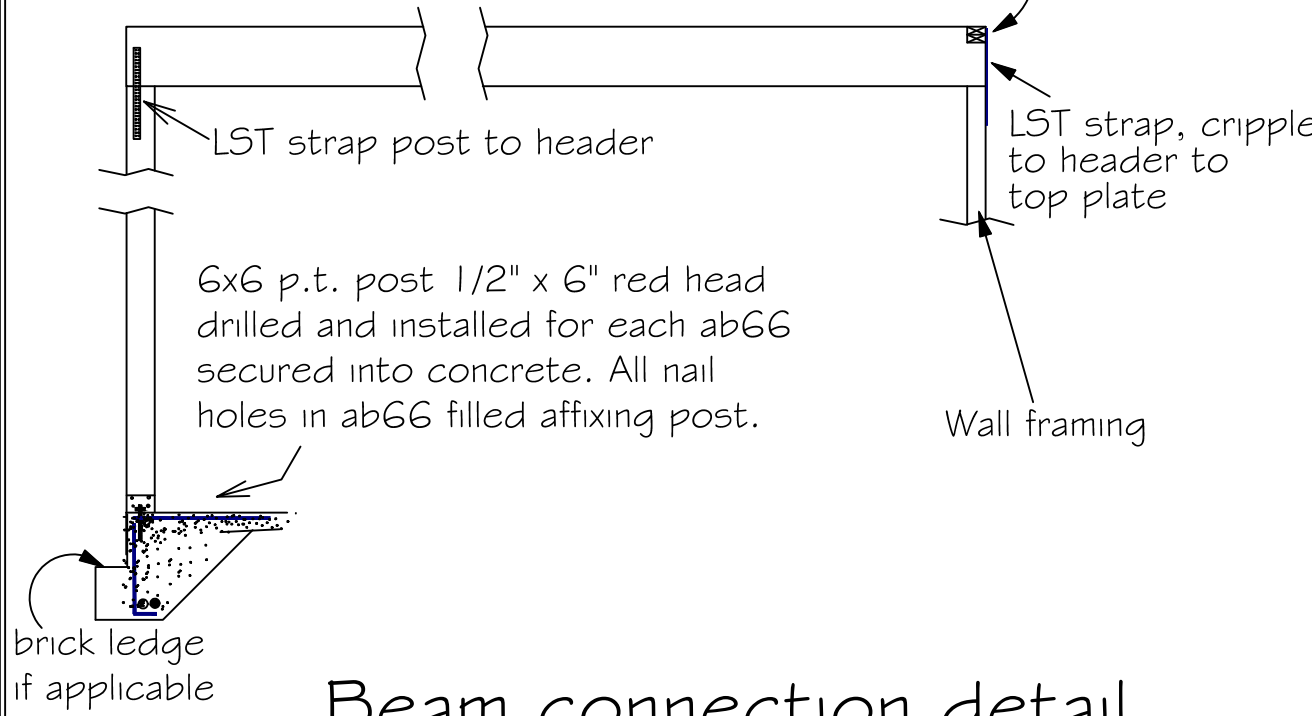
DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT AT EAVES

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

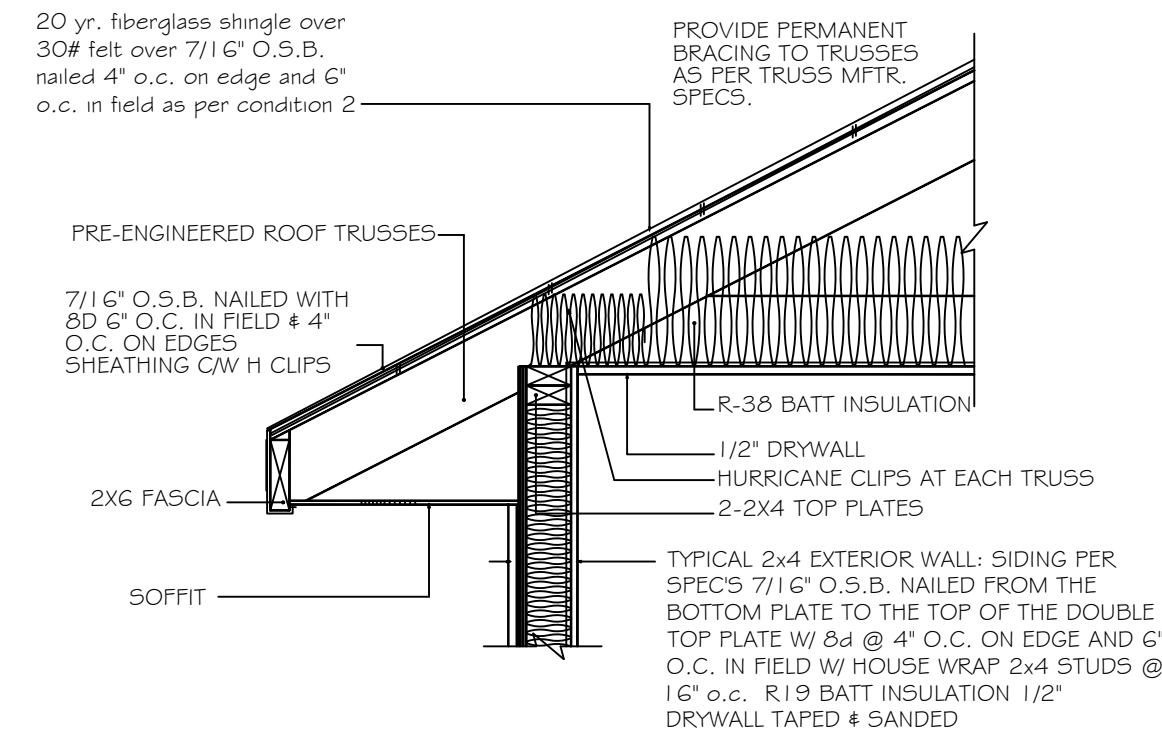
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING

Double 2" x 12" beam used without support posts for a maximum of 10' otherwise LVL must be used notched under double top plate with framing members under each beam. Fastened with 12d nails to top plate and framing members underneath.

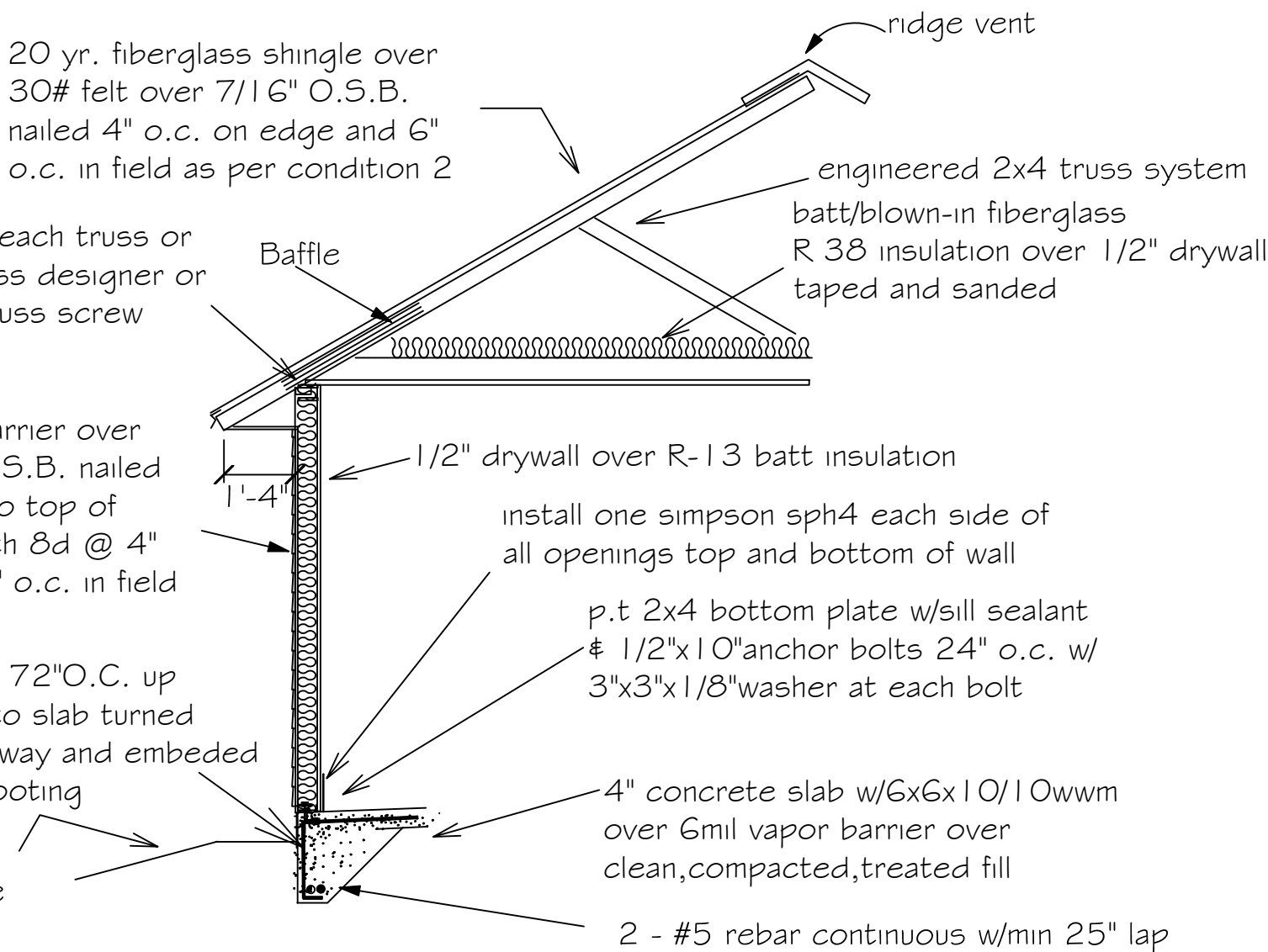


Beam connection detail

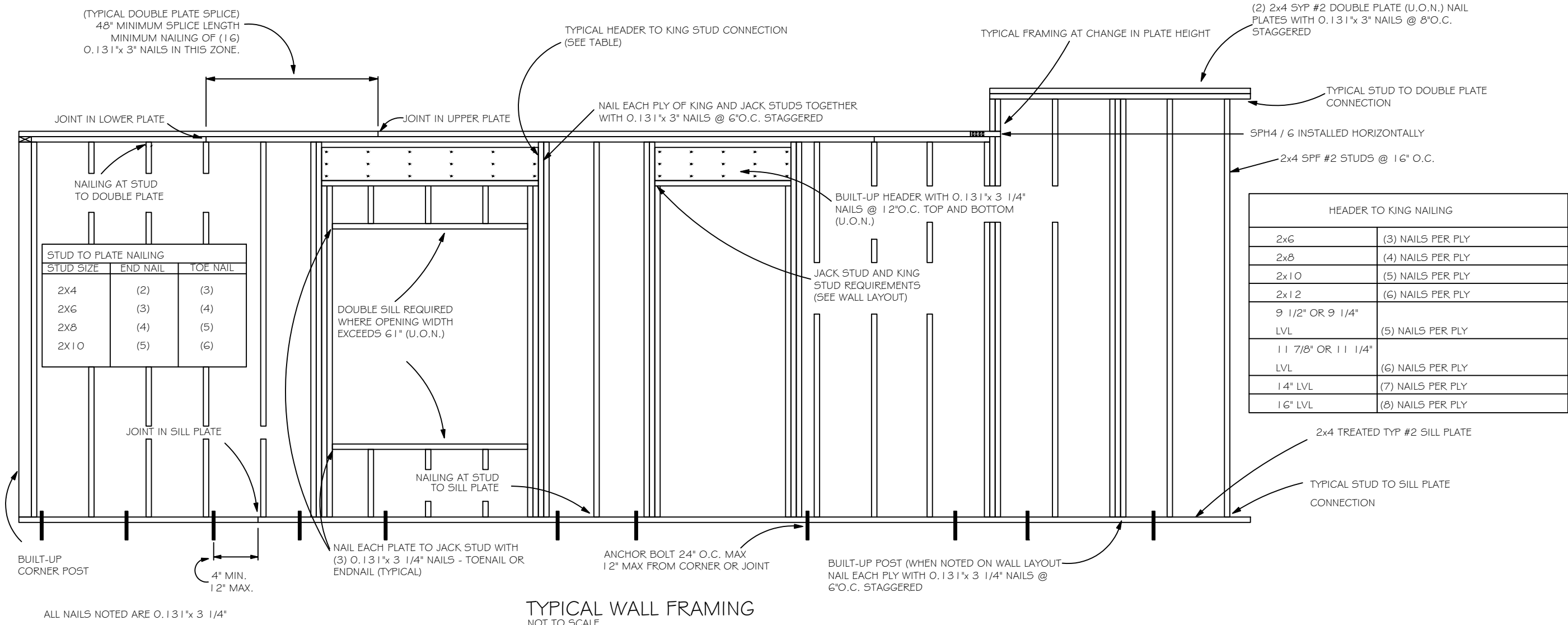
Double 1 3/4" x 11-1/4" LVL beam over opening up to 12'
Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'
Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One PA28 at both sides of opening embedded min 4" into concrete. LST 18 strap over trimmer to header each side.



4" STUD EAVE



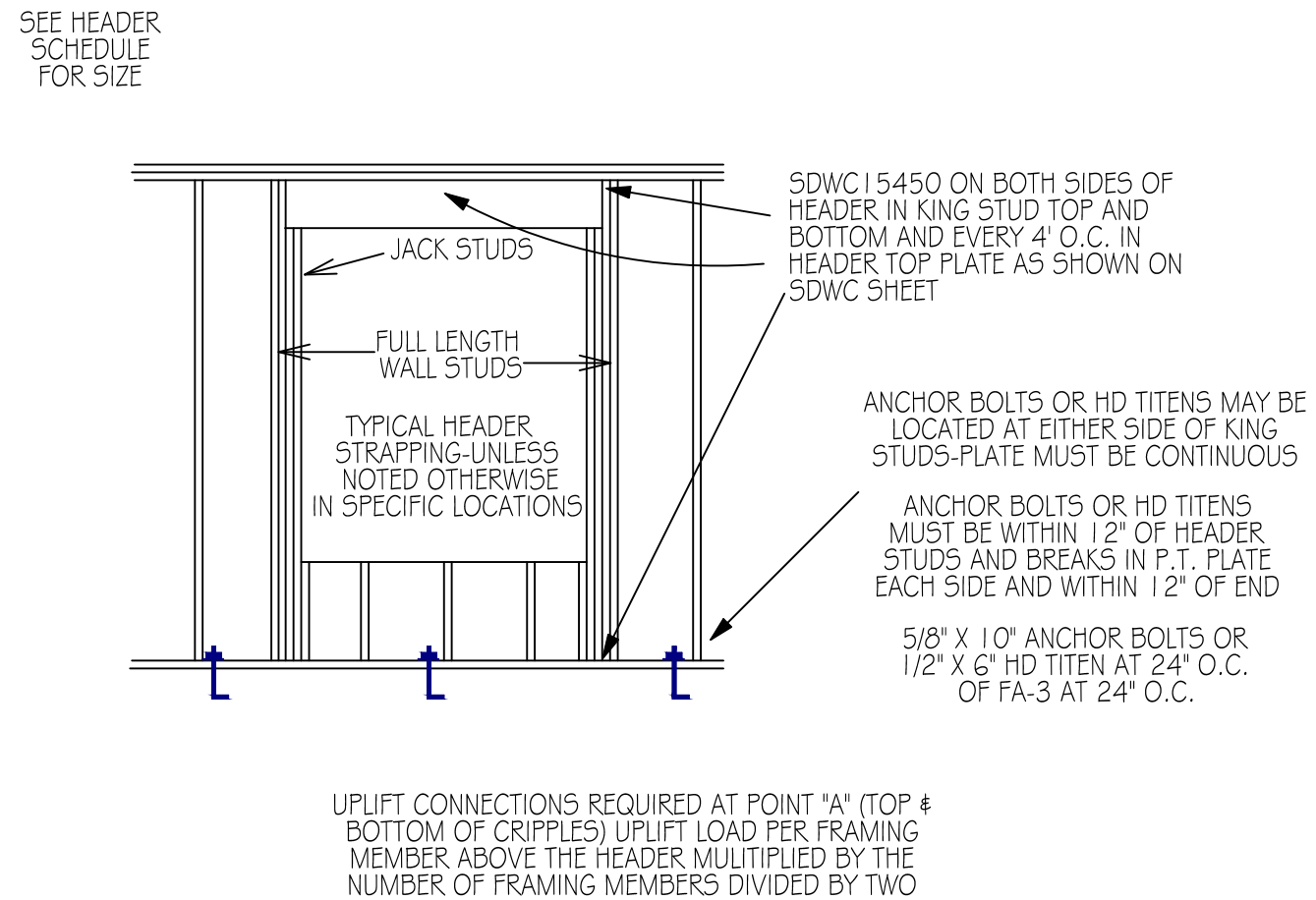
"AA" Windboard wall detail



TYPICAL WALL FRAMING

NOT TO SCALE

HEADER SCHEDULE			NOTE: 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 STUD CONTINUOUS TO TOP PLATE			MAXIMUM HEADER SPAN	
HEADER - CONTINUOUS			3' 6' 9' 12' 15' 18'	
2 - 2X STUDS UNDER LINTELS WITH OPENINGS LARGER THEN 5'-0"			NUMBER OF HEADER STUDS SUPPORTING END OF HEADER	
OPENING WIDTH			1 1 2 2 2 2	
BEARING OR SHEAR WALL			NUMBER OF FULL LENGTH STUDS AT END OF HEADER	
NON-BEARING WALLS			2	
0'-0" TO 3'-0"	2 - 2 X 6's	2 - 2 x 4's		
3'-1" TO 5'-0"	2 - 2 x 10's	2 - 2 x 6's		
5'-1" TO 7'-0"	2 - 2 x 10's	2 - 2 x 8's		
7'-1" TO 10'-0"	2 - 2 x 10's	2 - 2 x 10's		



SDWC HEADER STRAPPING (TYPICAL)

Digitally signed by
Carol Chadwick
DN: c=US,
o=Florida,
dnQualifier=A0141
00000018D46384
E7500033FE,
cn=Carol Chadwick
Date: 2024.06.04
17:47:40 -04'00'

This item has been digitally signed and sealed by Carol Chadwick, P.E., on the date apparent to the seal. Printed copies of this document are not considered signed and sealed and this signature must be verified on any electronic copies.