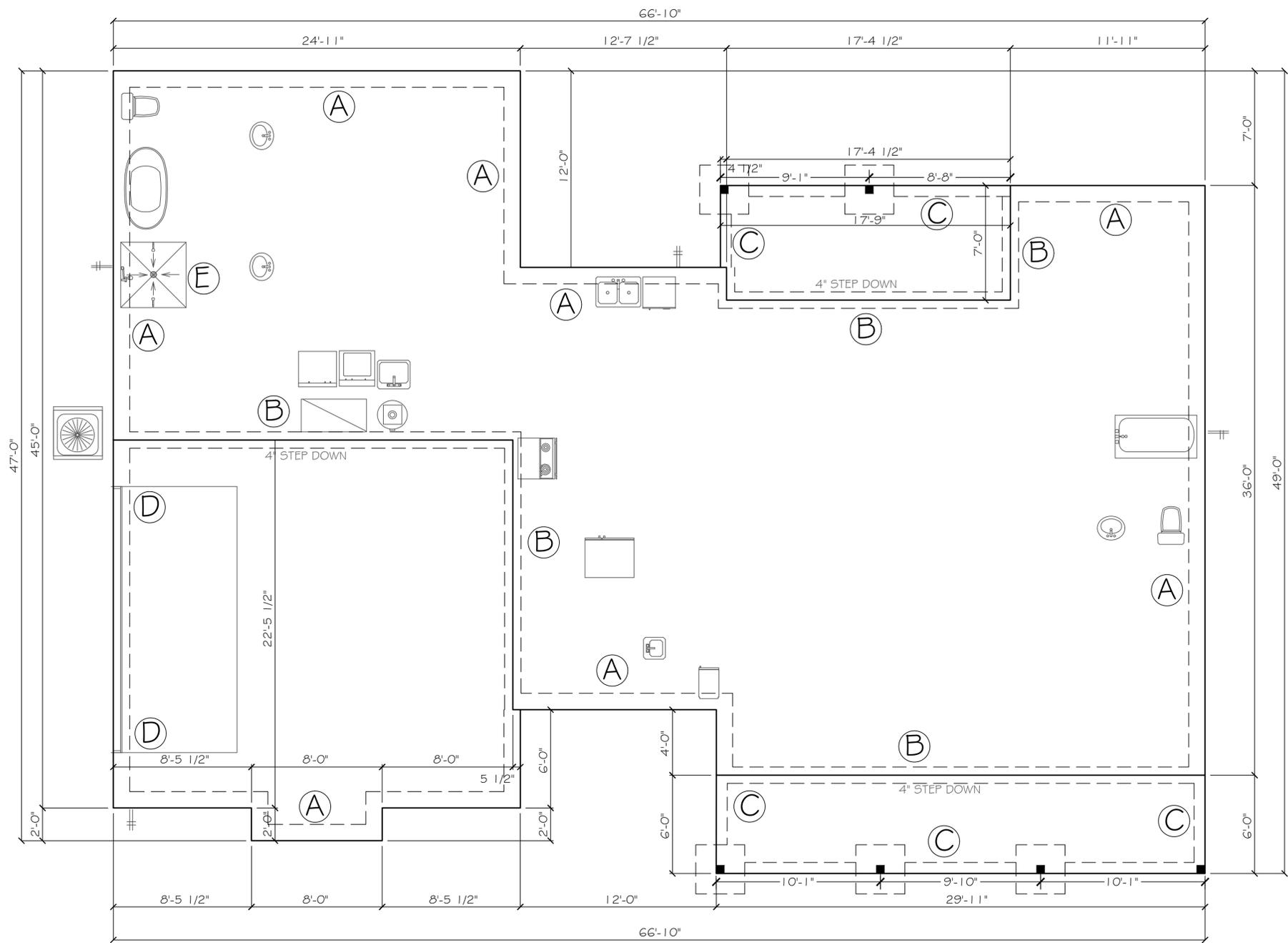


DESIGN SPECIFICATIONS

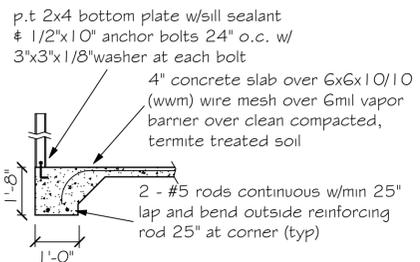
- DESIGN CODES:
  - 2023 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)
- DESIGN LOADS:
  - ROOF CONVENTIONAL FRAMING:
    - LL 20 PSF RAFTERS
    - LL 20 PSF CEILING JOISTS
    - DL 10 PSF RAFTERS
    - DL 10 PSF CEILING JOISTS
    - DL 30 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-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 CG<sub>pl</sub> ±



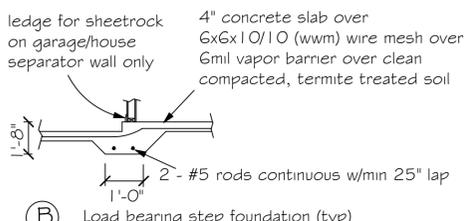
FOUNDATION NOTES

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

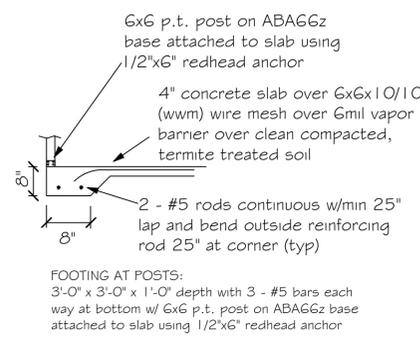
FOUNDATION PLAN  
SCALE: 1/4" = 1'



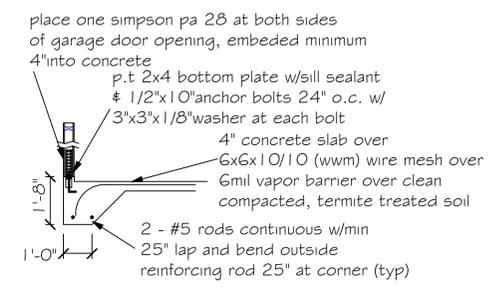
(A) Monolithic slab detail



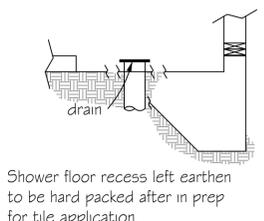
(B) Load bearing step foundation (typ)



(C) Monolithic slab detail at porch/carport



(D) Monolithic slab detail at garage



(E) Recessed Shower Detail

PREPARED FOR:  
 HAPPY HOME CONSTRUCTION  
 1234567890  
 drev@happyhomes-construction.com

THE CYPRESS - MODEL A  
 FOUNDATION PLAN  
 3854 SW SR 247, LAKE CITY, FL

PROJECT NO: F124440  
 DATE: SEP 5, 2024  
 SHEET: 5-1

Digitally signed by Carol Chadwick  
 DN: c=US, o=Florida, dnQualifier=AD110  
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 500032FEE, cn=Carol Chadwick  
 Date: 2024.09.05 12:02:21 -0400

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**ROOF VENT CALCULATION**

**FORMULA**

1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING  
 1.44 SQUARE INCHES = 1 SQUARE FOOT  
 BUILDING CEILING (50 FT) x 1.44 = BUILDING SQ IN  
 BUILDING SQ IN / 300 = SQ IN OF VENT REQUIRED  
 SQ IN OF VENT REQUIRED x 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 EDGE VENTS - STAMPCO W/ 3c SQ IN (IN/VA) PER LINEAL FT  
 (b) SOFFIT VENTS - GP T3-1/3" FULL VENT PERFORATED W/ 9, 1.9 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	REQUIRED	PROVIDED
(SQ FT)	(SQ FT)	(SQ FT)

**SOFFIT TABLE VENT SPECS**

Double 5" perforated soffits have a 6.20 sq. inches sq. foot rating  
 Triple 4" center vent soffits has a 1.95 sq. inches sq. foot rating  
 Triple 4" full vent soffits has a 5.627 sq. inches sq. foot rating  
 Triple 4" basketweave full vent has a 1.434 sq. inches sq. foot rating  
 Triple 4" center vent has a 4.70 sq. inches sq. foot rating  
 Beaded hidden vent soffits has 2.66 sq. inches sq. foot rating  
 Triple 3-1/2" hidden vent soffits has a 9.19 sq. inches 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.

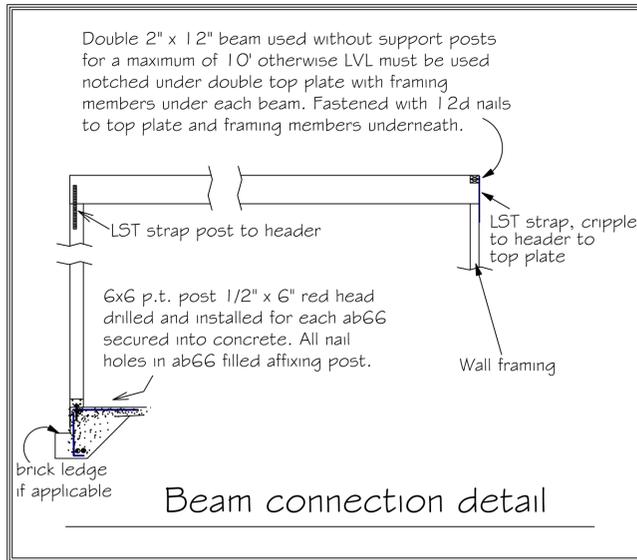
Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 8",  
 maximum spacing of 24" o.c., may be used in lieu of 5/8" x 10" anchor  
 bolts with 3"x3"x1/8" washer. Titen HD Heavy-Duty Screw Anchors shall  
 be installed per manufacturer's specifications.

**ROOF SHEATHING FASTENING**

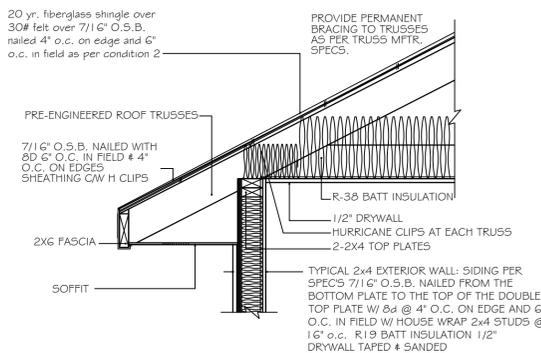
- 4" O.C. GABLE END
  - 6" O.C. EDGES (ALL ZONES)
  - 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
  - 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)
- SEE FIGURE R803.2.3.1, SECTION R803.1, 2017 FLORIDA  
 BUILDING CODE - RESIDENTIAL, SIXTH EDITION FOR ROOF  
 SHEATHING NAILING ZONES

**ROOF NOTES**

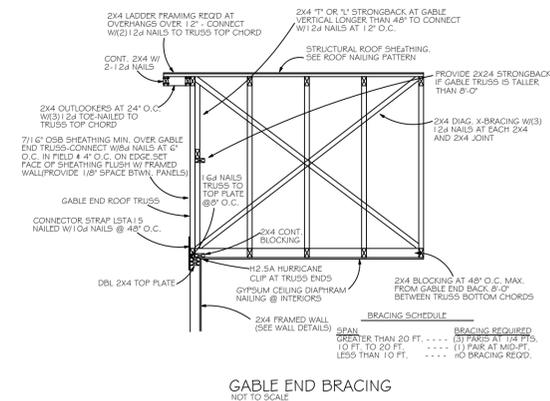
- ROOF PITCH LESS THEN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED
- OVERLAP ROOFING UNDERLAYMENT 4"(MIN) OVER HIP AND RIDGES
- BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK  
 WHEN SHINGLES NOT INSTALLED SAME DAY
- DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE  
 UNDERLAYMENT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



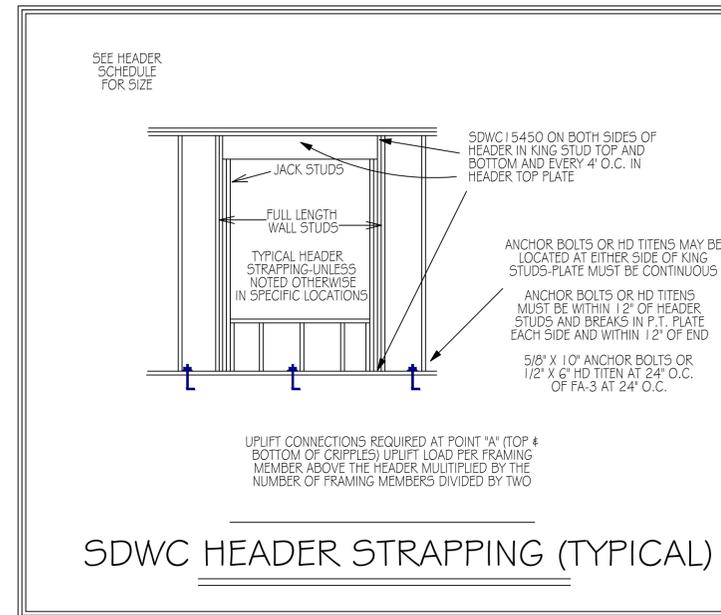
Double 1 3/4" x 11-1/4" LVL beam over opening up to 12'  
 Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'  
 Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king  
 studs each end and 2 trimmers each end of beam. Fastened with 12d nails to  
 top plate and framing members. One PA28 at both sides of opening embedded  
 min 4" into concrete. LST18 strap over trimmer to header each side.



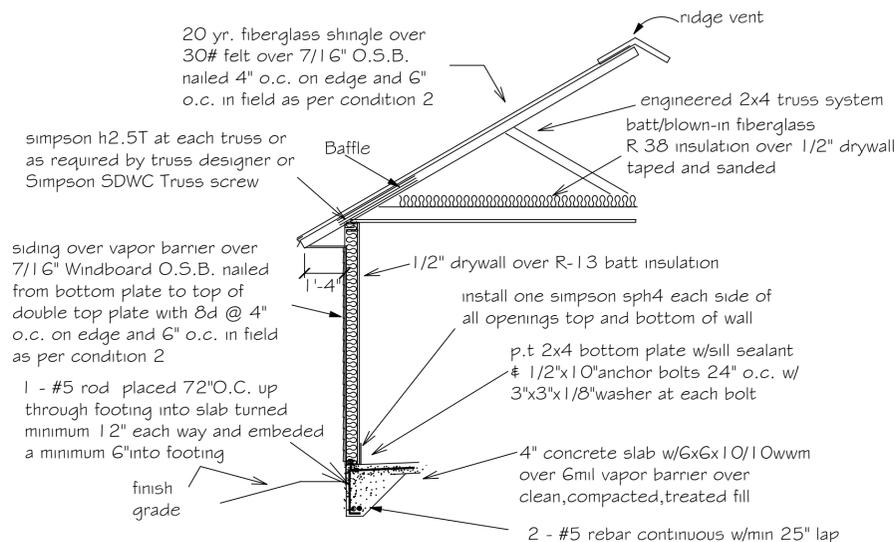
4" STUD EAVE



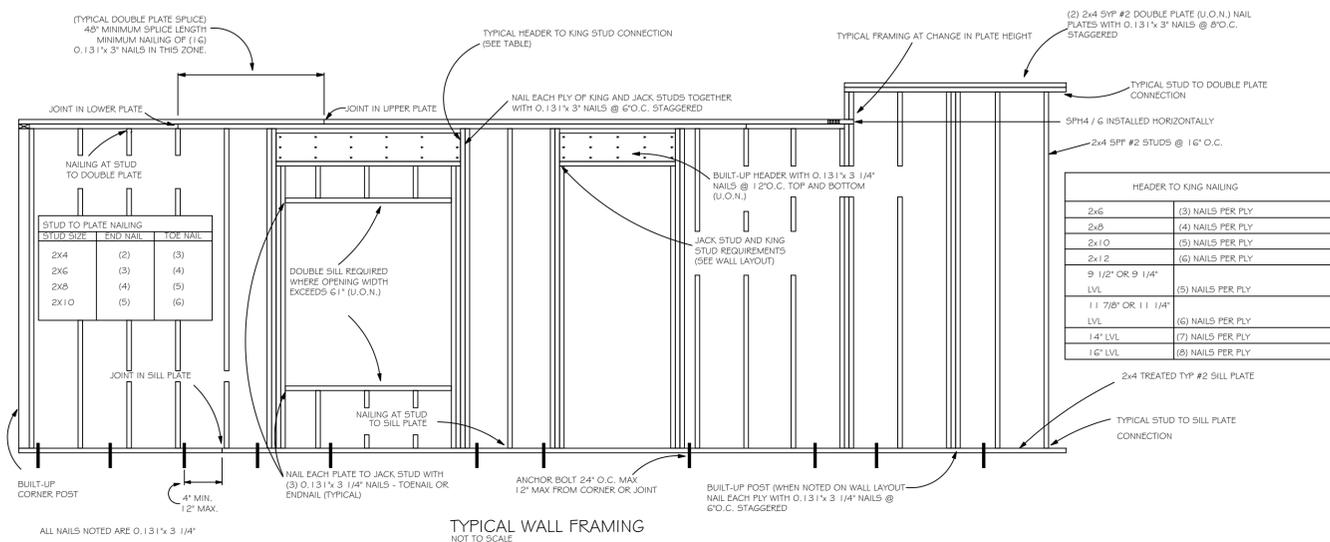
GABLE END BRACING NOT TO SCALE



SDWC HEADER STRAPPING (TYPICAL)



"AA" Windboard wall detail



TYPICAL WALL FRAMING NOT TO SCALE

**HEADER SCHEDULE**

2X STUD CONTINUOUS TO TOP PLATE

HEADER - CONTINUOUS

2 - 2X STUDS UNDER LINTELS WITH OPENINGS LARGER THEN 5'-0"

**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

OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS
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 12's	2 - 2 X 10's

MAXIMUM HEADER SPAN
3' 6' 9' 12' 15' 18'

NUMBER OF FULL LENGTH STUDS AT END OF HEADER
1 1 2 2 2 2

NUMBER OF HEADER STUDS SUPPORTING END OF HEADER
1 1 2 2 2 2

Digitally signed by Carol Chadwick  
 DN: cn=CS, o=Florida, dnQualifier=A0141  
 00000018046384 E730003FEE,  
 cn=Carol Chadwick  
 Date: 2024.09.05 12:33:48 -0400

CAROL CHADWICK, P.E.  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 LICENSE NO. 12244-0  
 EXPIRES 09/05/2028

PREPARED FOR:  
 HAPPY HOME CONSTRUCTION  
 4100 W. US HWY 90, SUITE 100  
 AUSTIN, TX 78748  
 drew@happyhomeconstruction.com

THE CYPRESS - MODEL A  
 FRAMING DETAILS  
 3854 SW SR 247, LAKE CITY, FL

DATE: 09/05/24  
 SHEET: 5-2