

DESIGN SPECIFICATIONS

- DESIGN CODES:  
2020 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL  
ASCE 7-10, 2005  
NDS, ACI, ATC, AWPA, APA, ICC 600-08

- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)

DESIGN LOADS:

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: 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<sub>gpi</sub> ±

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 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

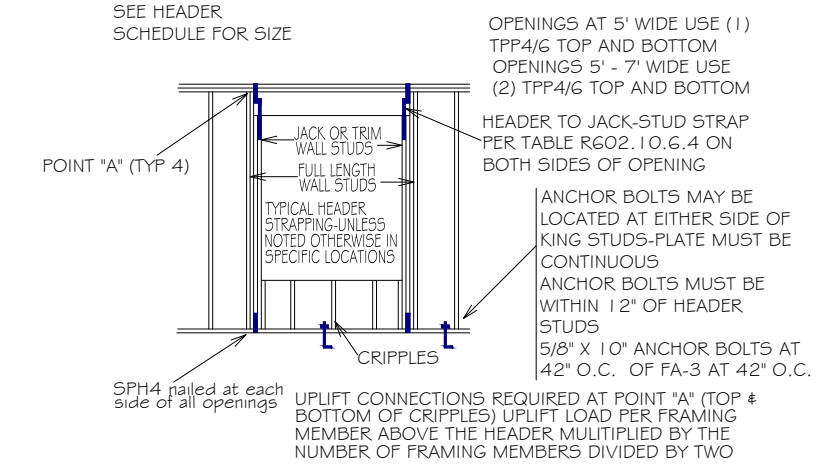
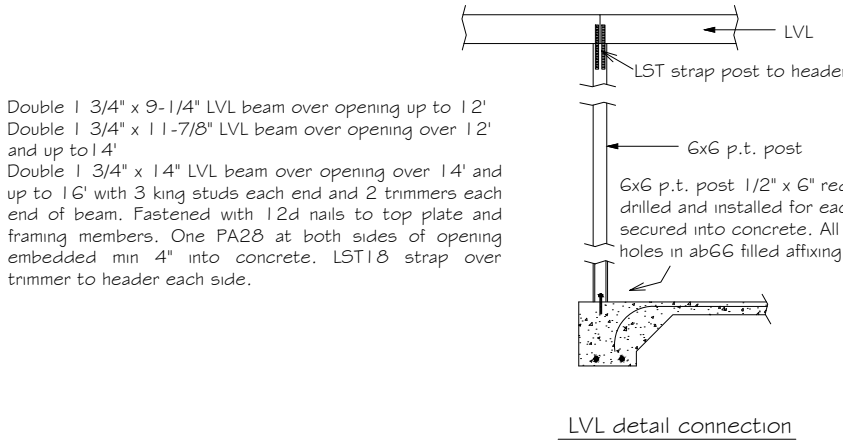
METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURER'S SPECS

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

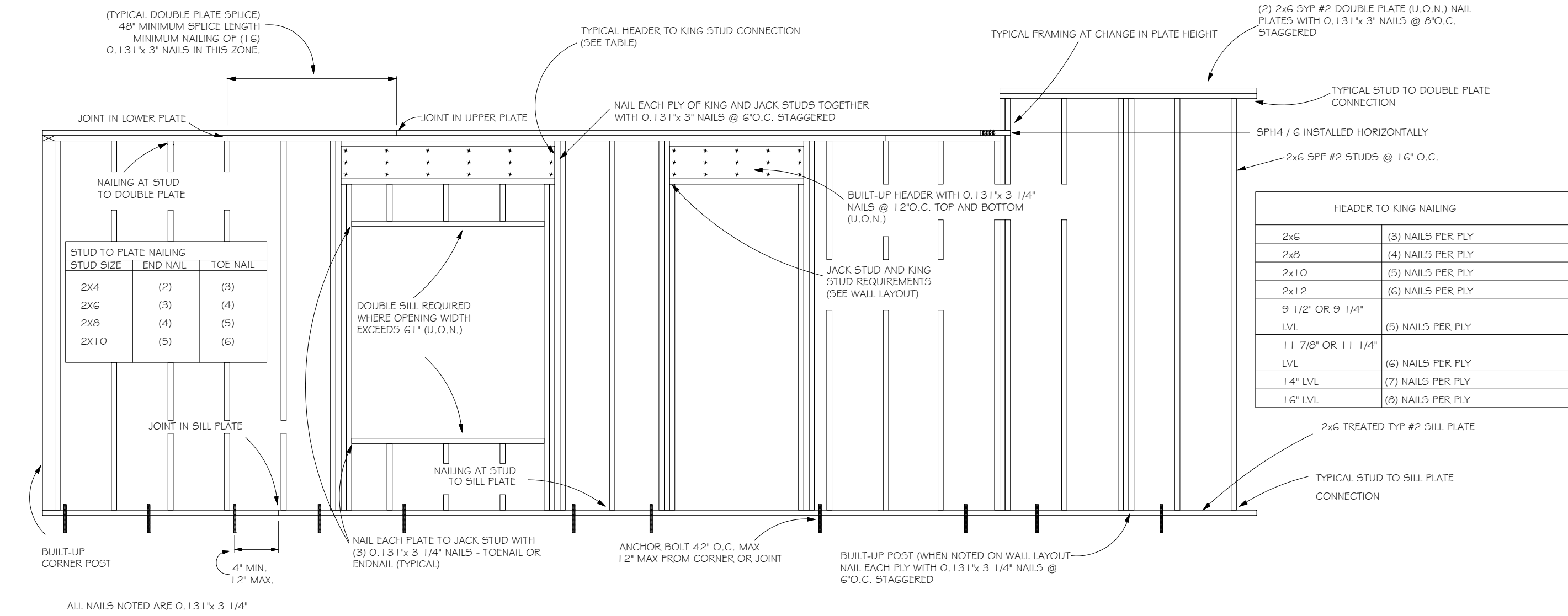
| ROOF VENT CALCULATION                                                                                                                                                                                                                                                          |                   |     |       |                   |              |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|-------|-------------------|--------------|----------------|
| FORMULA                                                                                                                                                                                                                                                                        |                   |     |       |                   |              |                |
| 1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING<br>1.44 SQUARE INCHES = 1 SQUARE FOOT<br>BUILDING CEILING (SQ FT) x 1.44 = BUILDING (SQ IN)<br>BUILDING (SQ IN) / 300 = SQ IN OF VENT REQUIRED<br>SQ IN OF VENT REQUIRED (2 = 50% AT HIGH AND 50% AT LOW<br>and up to 1.4 |                   |     |       |                   |              |                |
| PER FBC SECTION R802.2, 40% MIN, BUT NOT MORE THAN 50% OF<br>VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A<br>MIN 3'-0" ABOVE EAVE                                                                                                                                     |                   |     |       |                   |              |                |
| BASE OF CALCULATION:<br>(a) OFF RIDGE VENTS - STAIRPCD W/ 56 SQ IN (IN/VA) PER LINEAL FT<br>(b) SOFFIT VENTS - 6" T3-1/3" PULL VENT PERFORATED W/ 9.19 SQ IN<br>(IN/VA) PER LINEAL FT                                                                                          |                   |     |       |                   |              |                |
| CALCULATED UNDER A FOOT OF SOFFIT VENT SHALL NOT INCLUDE<br>NON-VENTED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM<br>PROPERTY LINE                                                                                                                                            |                   |     |       |                   |              |                |
| AREA<br>(SQ FT)                                                                                                                                                                                                                                                                | REQUIRED<br>FLOOT | LOW | VENTS | PROVIDED<br>FLOOT | LINEAL<br>FT | LOW<br>(SQ IN) |
| HIGH (1) 10' VENT = 216 SQ IN<br>LOW (1) 10' VENT = 216 SQ IN                                                                                                                                                                                                                  |                   |     |       |                   |              |                |
| SOFFIT TABLE VENT SPECS                                                                                                                                                                                                                                                        |                   |     |       |                   |              |                |
| Double 5" perforated soffits have a 6.20 sq. inches, foot rating                                                                                                                                                                                                               |                   |     |       |                   |              |                |
| Triple 4" center vent soffits have a 5.067 sq. inches, foot rating                                                                                                                                                                                                             |                   |     |       |                   |              |                |
| Triple 4" full vent soffits have a 5.067 sq. inches, foot rating                                                                                                                                                                                                               |                   |     |       |                   |              |                |
| Triple 4" basketweave full vent has a 14.34 sq. inches, foot rating                                                                                                                                                                                                            |                   |     |       |                   |              |                |
| Triple 4" center vent has a 4.78 sq. inches, foot rating                                                                                                                                                                                                                       |                   |     |       |                   |              |                |
| Beaded hidden vent soffits have a 2.64 sq. inches, foot rating                                                                                                                                                                                                                 |                   |     |       |                   |              |                |
| Triple 5-1/2" hidden vent soffits have a 9.19 sq. inches, foot rating                                                                                                                                                                                                          |                   |     |       |                   |              |                |

NOTE

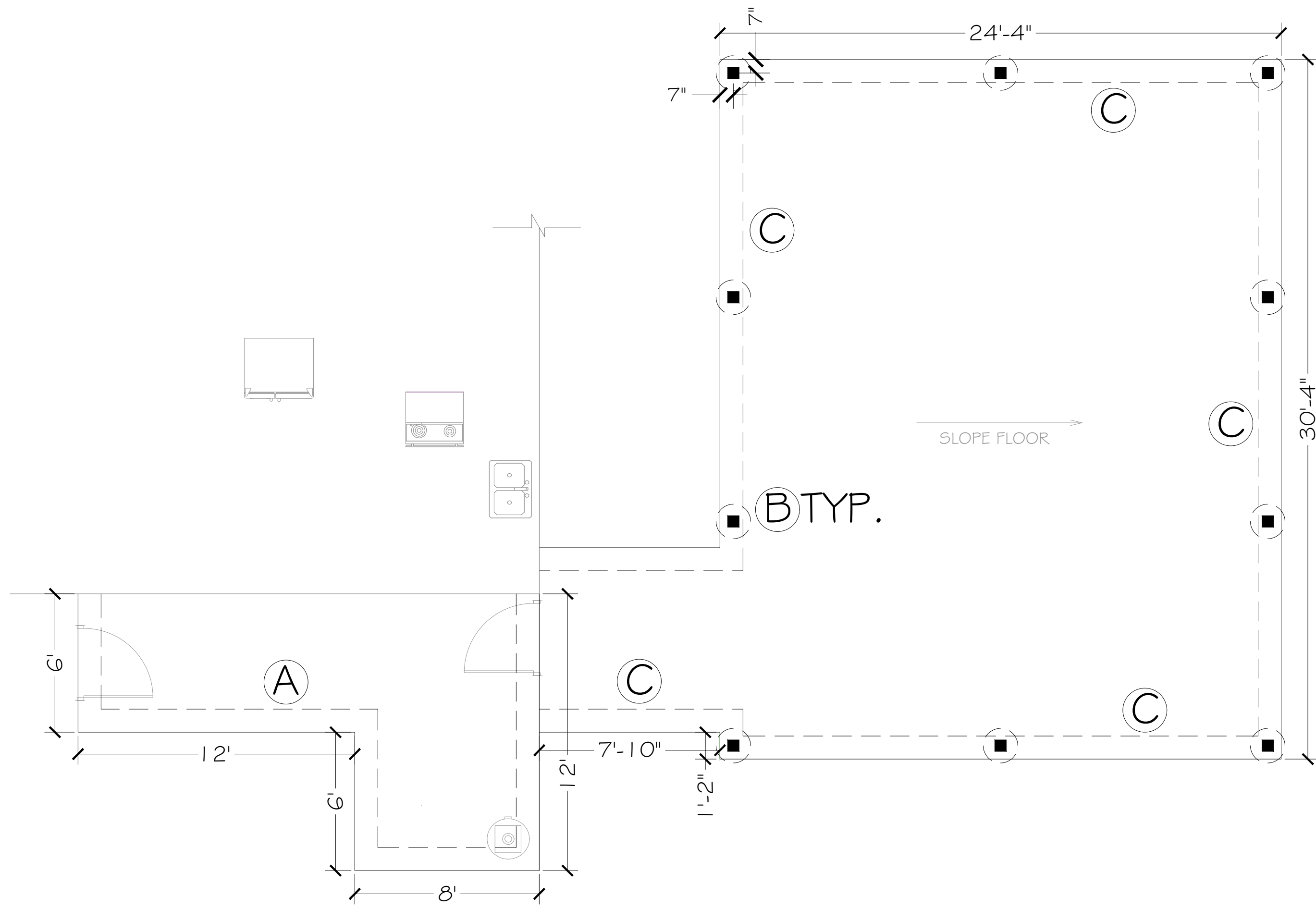
7/16" 0.5.B. NAILED WITH 8D 6"  
O.C. IN FIELD & 4" O.C. ON EDGES



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

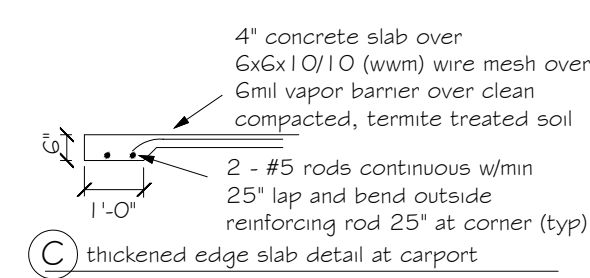
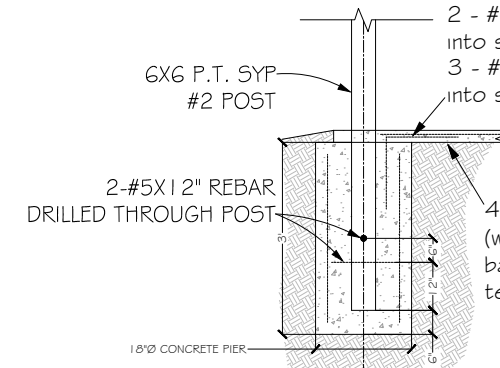
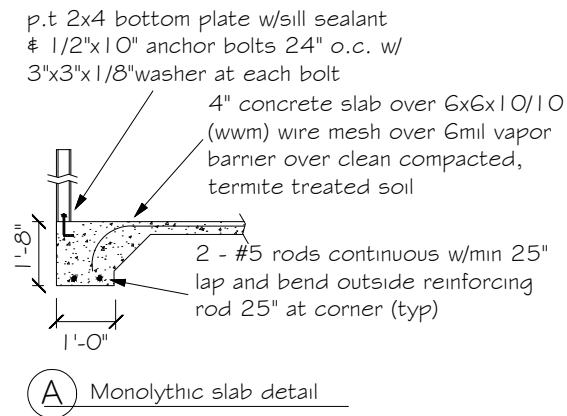


TYPICAL WALL FRAMING  
NOT TO SCALE



FOUNDATION PLAN

SCALE: 1/4" = 1'



FOUNDATION NOTES

- 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 TERMITES-TREATED & COMPACTED FILL
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 1'-0" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES, SECTION R403.1.4



Digitally signed by Carol Chadwick  
DN: cn=Carol Chadwick, o=Florida  
Digital Signature: 094E0005954C, cn=Carol  
Chadwick  
Date: 2023.03.22 17:31:58 -0400

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