

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

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

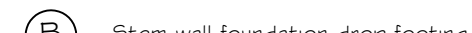
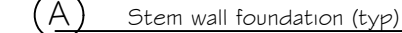
ROOF TRUSS:
LL 20 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 7 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD

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

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

- MAXIMUM HEIGHT OF STRUCTURE: 21'-7 $\frac{1}{2}$ "
- NUMBER OF STORIES: 1
- TYPE OF CONSTRUCTION: TYPE V-G, UNPROTECTED, UNSPRINKLERED

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



FOOTING AT POSTS:
2'-0" x 2'-0" x 1'-0" depth with 3 - #5 bars each
way at bottom w/ 8x8 p.t. post on ABA88z base
attached to slab using 1/2"x4" redhead anchor

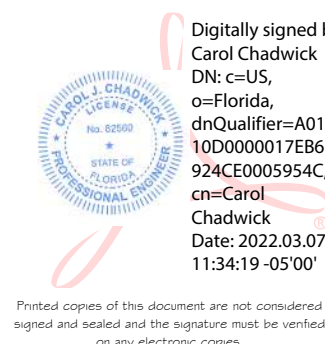
© Monolithic slab detail at porch

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", 4 WELDED WIRE MESH PLACED ON CHAIRS. 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY PAPER 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 FBC-RES. SECTION RA03.1.4

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



SCALE: $1/4" = 1'$



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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 (SQ. FT.) / 1.44 = 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 R602.2: 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/ 5G 50 IN (INVA) PER LINEAL FT						
(b) SOPFIT VENTS - 6" T3-1/3" FULL VENT PERFORMED W/ 9-1.9 50 IN (INVA) PER LINEAL FT						
CALCULATED LINEAL FOOT OF SOPFIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED SOPFIT LOCATED LESS THAN 5' FROM PROPERTY LINE						
AREA (SQ. FT.)	REQUIRED	PROVIDED	AREA (SQ. FT.)	REQUIRED	PROVIDED	AREA (SQ. FT.)
SOPFIT TABLE VENT SPEC.						
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 5.667 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 soffits has 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 DBL. LAYER OF UNDERLAYMENT IS REQUIRED
OVERLAP ROOFING UNDERLAYMENT 4"(MIN) OVER HIPPS AND RIDGES

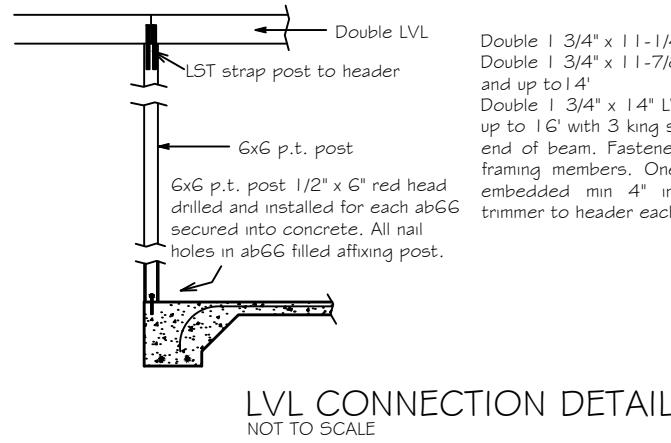
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

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

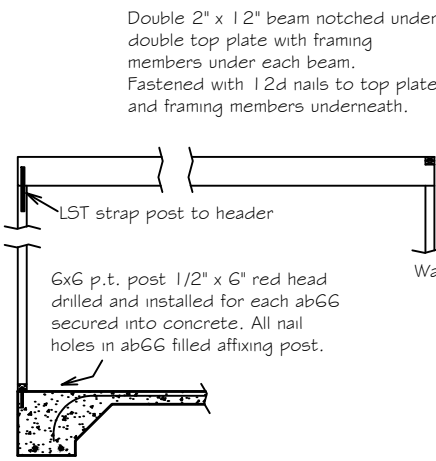
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

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

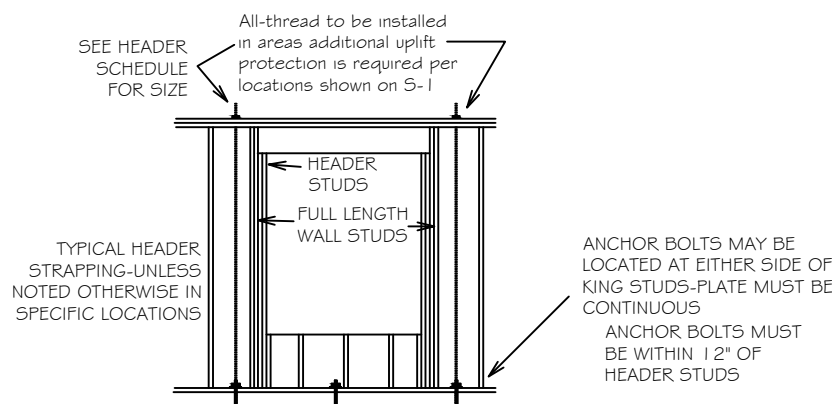
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



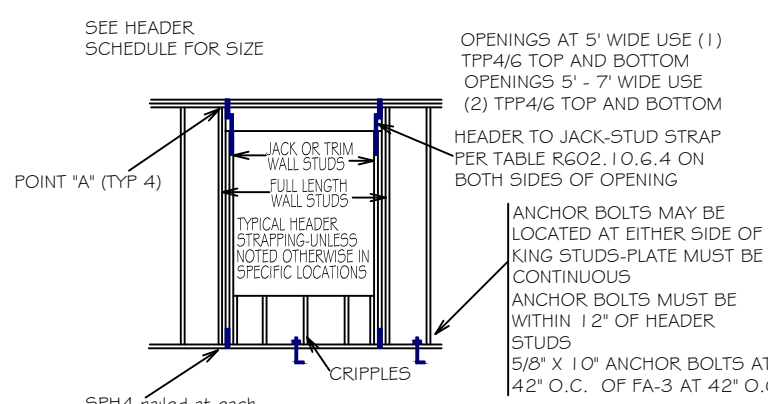
LVL CONNECTION DETAIL
NOT TO SCALE



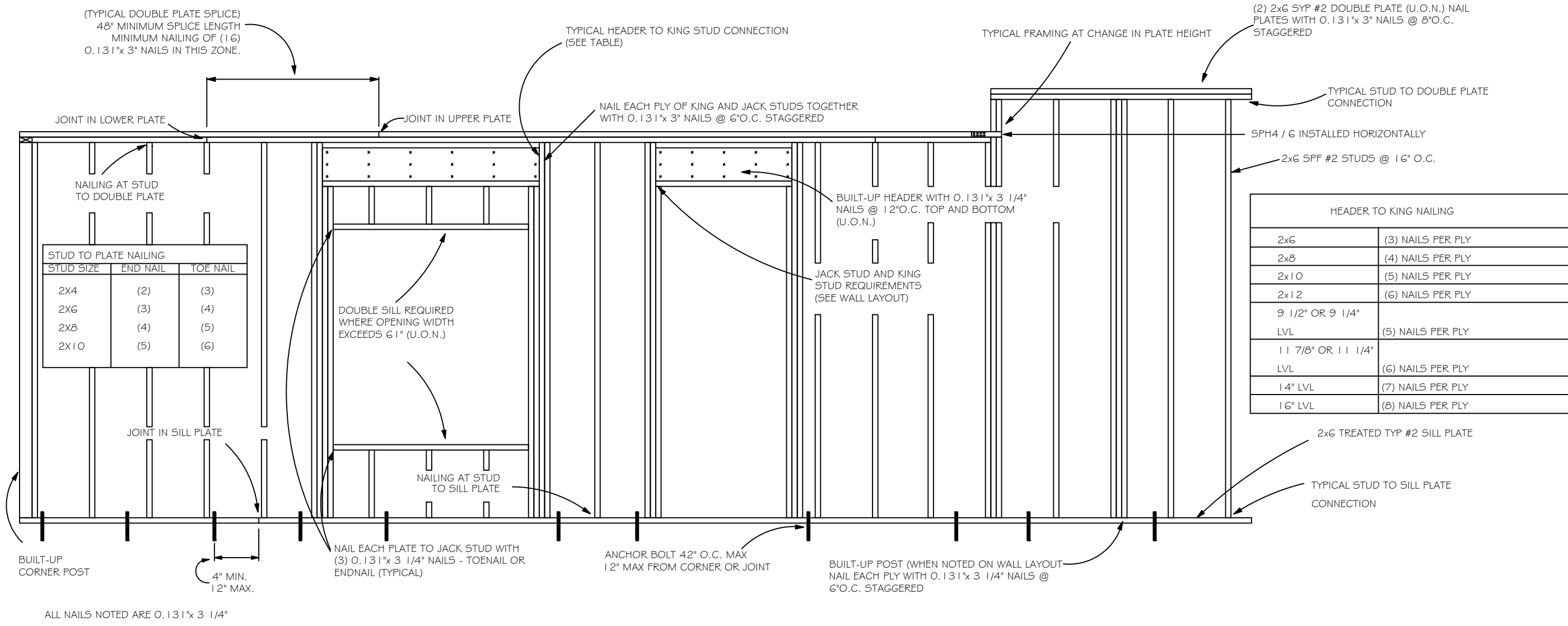
BEAM CONNECTION DETAIL
NOT TO SCALE



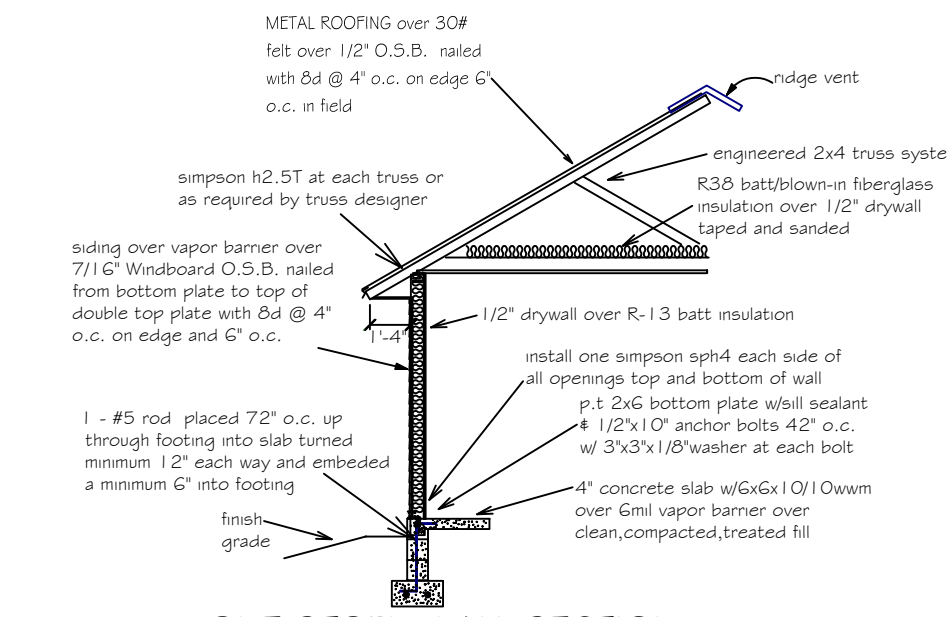
TYPICAL ALL THREAD DETAIL
NOT TO SCALE



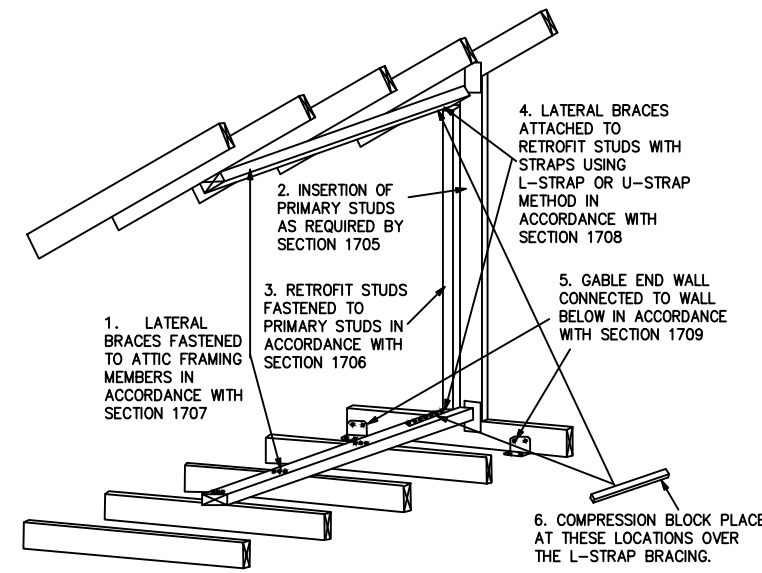
TYPICAL HEADER STRAPPING
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TYPICAL WALL FRAMING
NOT TO SCALE



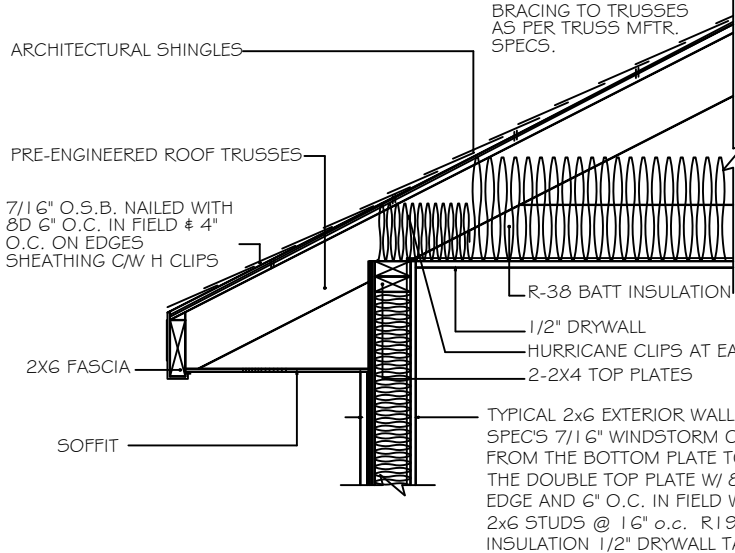
ONE STORY WALL SECTION



THIS FIGURE SHOWS A TRUSS GABLE END USING THE L-BENT STRAP METHOD IN ORDER TO SHOW STRAPS, COMPRESSION BLOCKS ARE NOT SHOWN. THE METHODOLOGY FOR A CONVENTIONALLY FRAMED GABLE END IS SIMILAR. NOT ALL DETAILS ARE SHOWN.

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 CHIFFERS	
2 - 2X STUDS UNDER UNITS WITH OPENINGS LARGER THEN 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 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		



4" STUD EAVE

Digitally signed
by Carl
Chadwick
DN: c=US,
o=Frederick
Qualifier-A014
180000007880
94CE0005954C,
cn=Carl
Chadwick
Date: 2022.03.07
113641-0500