

DESIGN SPECIFICATIONS

- DESIGN CODES:
2017 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
ASCE 7-10, 2005
NDS, ACI, ATIC, AMFA, 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

- MAXIMUM HEIGHT OF STRUCTURE:

- 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_{gpi} ±

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 (4MIN) 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

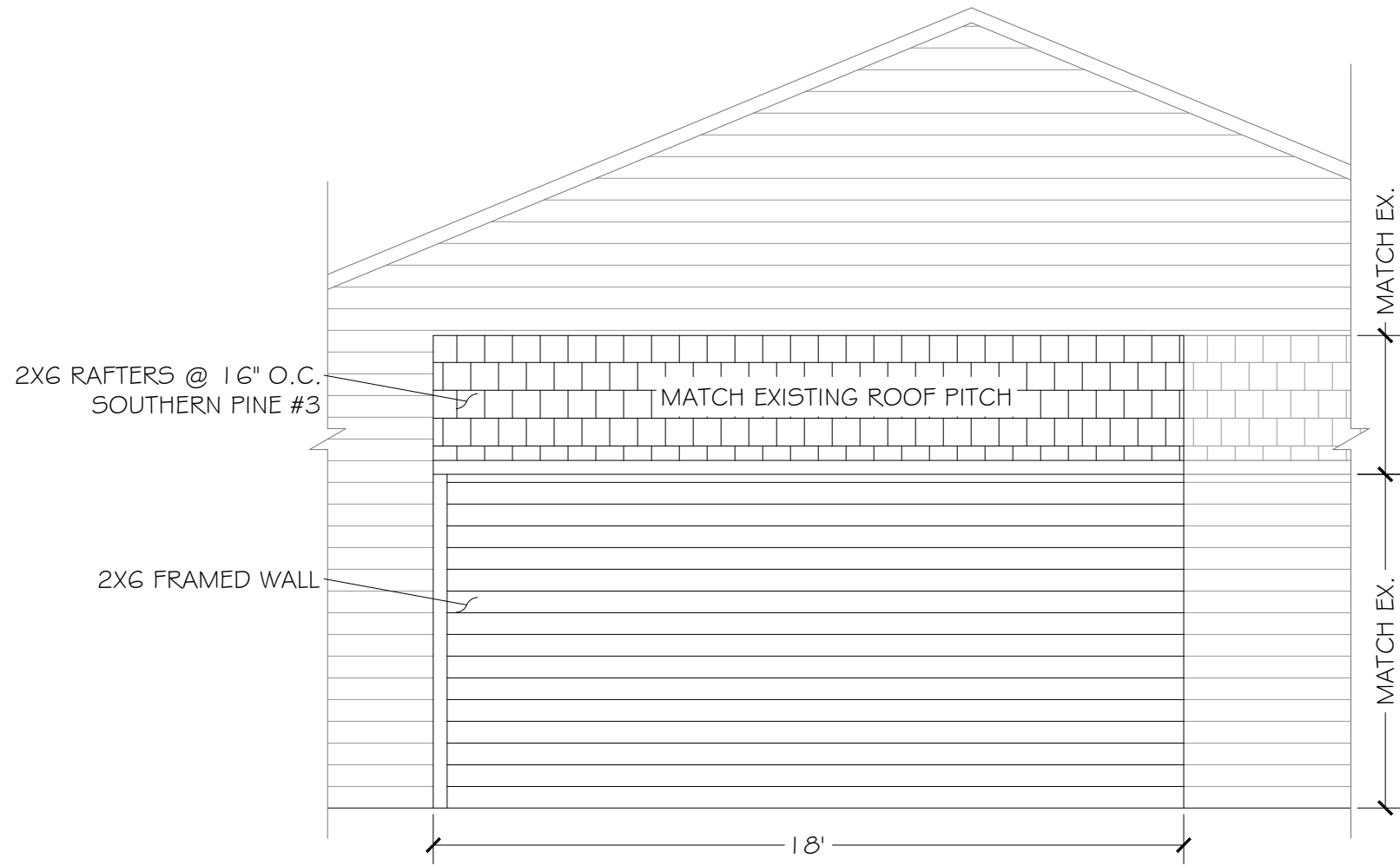
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

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

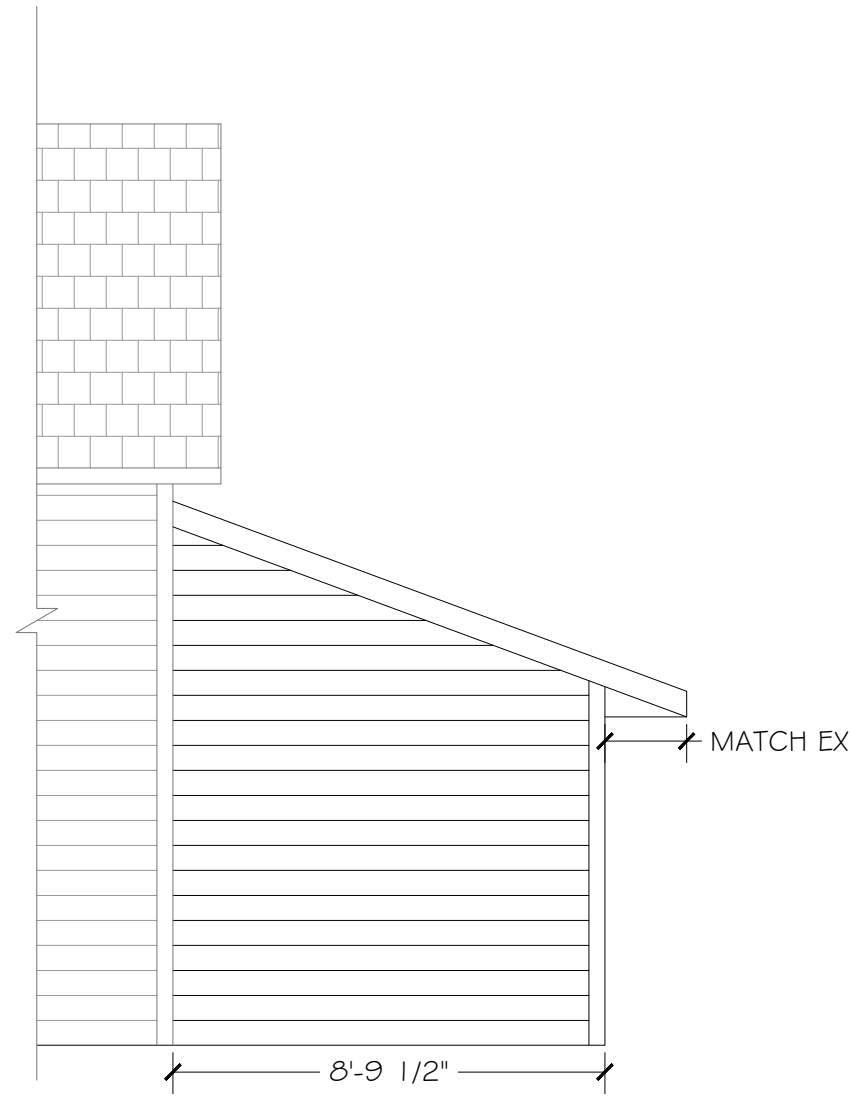
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING

Double 1 3/4" x 9-1/4" LVL beam over opening up to 12' and up to 6' 4"

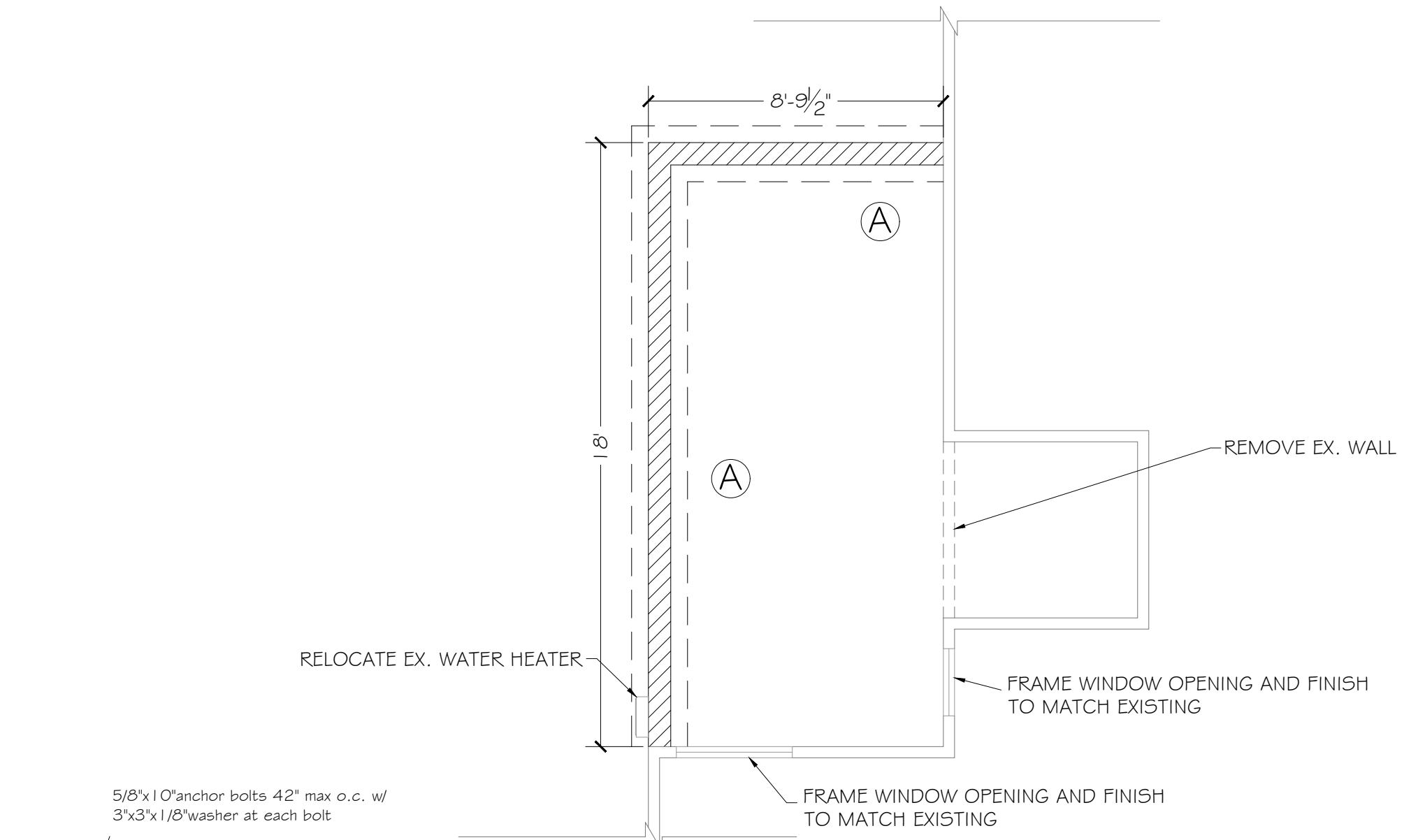
Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One PA20 at both ends of opening embedded min 4" into concrete. LST18 straps over trimmer to header each side.



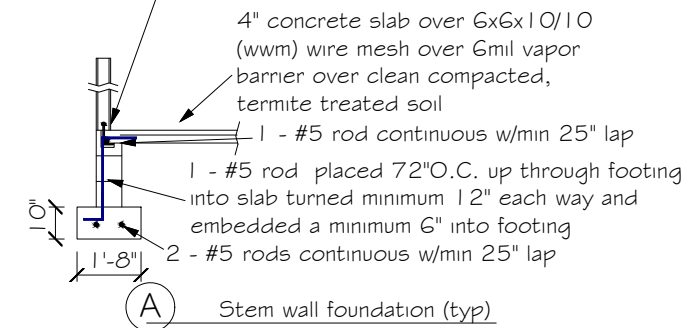
END ELEVATION
NOT TO SCALE



SIDE ELEVATION
NOT TO SCALE



FOUNDATION PLAN
SCALE: 1/8" = 1'



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/ 6X-1,4/11,4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OF 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 PER FBC-RES. SECTION R403.1.4

LEGEND

- ⊕ DUPLEX WALL RECEPTACLE
- \$ SPST WALL SWITCH
- ⊙ LIGHT

ELECTRIC PLAN

SCALE: 1/8" = 1'

ALL ELECTRICAL TO BE INSTALLED CURRENT NEC CODE.

- PROVIDE INTERIOR SWITCH AND EXTERIOR LIGHT IN THE VICINITY OF DOORS.
- PROVIDE RECEPTACLE OUTLET 6' FROM OPENINGS, ENDS OF WALL, AND 6' ON CENTER
- PROVIDE AN OUTSIDE GFI WATER PROTECTED RECEPTACLE OUTLET NEAR EXCESS DOORS AT AIR CONDENSER UNIT, AND NEAR GARAGE DOOR OPENING.
- BATHROOM OUTLETS TO BE GFCI WITH A SEPARATE 20 AMP CIRCUIT.
- PROVIDE SMOKE DETECTOR AS BY BLDG CODE, IN THE BEDROOMS AND HALLWAYS WITHIN 10' SERVING SUCH ROOMS.
- ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE IS AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNIT SHALL BE PROTECTED BY AN ARC-FULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.
- LIGHT FIXTURE IN CLOTHES CLOSET SHALL BE SURFACE-MOUNTED INCANDESCENT FIXTURE WITH COMPLETELY ENCLOSED LAMP ON THE WALL ABOVE DOOR OR ON CEILING WITH MIN 12" CLEAR TO STORAGE AREA.
- FLUORESCENT GENERAL LIGHTING IS REQUIRED IN BATHROOM AND KITCHEN
- A 40 LUMENS PER WATT EFFICIENCY LAMP IS REQUIRED
- LIGHT FIXTURES IN TUB OR SHOWER ENCLOSURES MUST HAVE LABEL
- 8" TYPING "NOTABLE FOR DAMP LOCATIONS"
- RECESSED CEILING FIXTURES MUST BE IC RATED
- ALL RECEPTACLES AT KITCHEN COUNTER SHALL BE GFCI
- PROVIDE TWO MINIMUM SEPARATE 20-AMP CIRCUITS TO KITCHEN APPLIANCES
- EACH SEPARATE KITCHEN COUNTER SPACE 12" OR WIDER SHALL HAVE A RECEPTACLE OUTLET
- KITCHEN RECEPTACLE OUTLET SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL IS MORE THAN 24" FROM A RECEPTACLE OUTLET
- ISLAND AND PENINSULA COUNTER TOPS 12" OR WIDER SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET FOR EACH 4' OF COUNTER TOP
- NOT LESS THAN 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS OR NOT LESS THAN 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS.
- ALL CIRCUITS IN GARAGE AREA TO BE GFI RATED 125 VOLT SINGLE PHASE 20 AMPERE

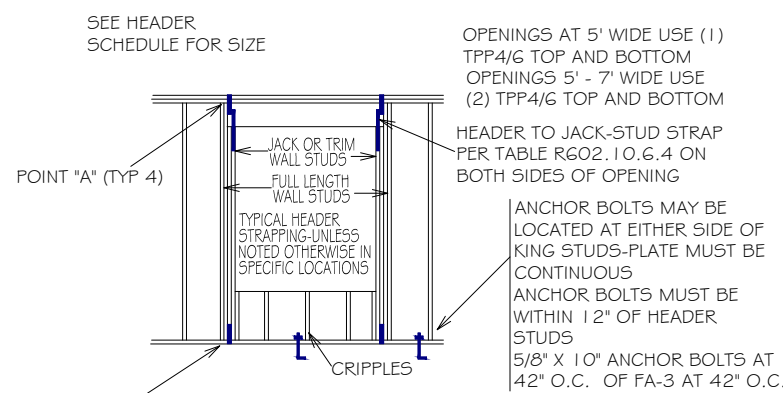
Carol Chadwick, PE
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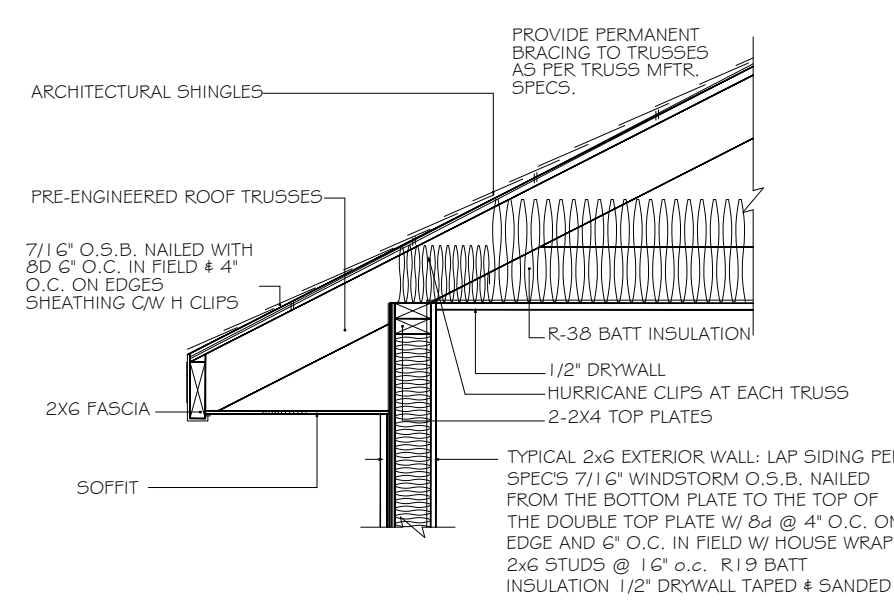
ROOF VENT CALCULATION					
FORMULA					
1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING					
1.44 SQUARE INCHES = 1 SQUARE FOOT					
BUILDING CEILING (SQ FT) X 1.44 = BUILDING (SQ IN)					
BUILDING (SQ IN) / 300 = SQ IN OF VENT REQUIRED					
SQ IN OF VENT REQUIRED (2" = 508 sq. IN) AND 50% AT LOW					
PER FBC SECTION R803.2.40% MIN, BUT NOT MORE THAN 50% OF					
VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A MIN 3" MIN ABOVE EAVE					
BASE OF CALCULATION:					
(a) OFF RIDGE VENTS - STAMPCO W/ 36 SQ IN (IN/VA) PER LINEAL FT					
(b) SOFFIT VENTS - GP T3-1/3" FULL VENT PERFORATED W/ 9.19 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 (SQ FT)	REQUIRED	PROVIDED	REQUIRED	LINEAL FT	LOW (SQ IN)
HIGH (11'6" MIN) = 216 SQ IN					
LOW (11' LINEAL FT) = 9.19 SQ IN					
SOFFIT TABLE VENT SPECS					
Double 2" perforated soffits have a 6.20 sq. incheshq. foot rating					
Triple 4" center vent soffits has a 1.95C sq. incheshq. foot rating					
Triple 4" full vent soffits has a 5.6C7 sq. incheshq. foot rating					
Triple 4" basketweave full vent has a 1.4.34 sq. incheshq. foot rating					
Triple 4" center vent has a 4.76 sq. incheshq. foot rating					
Double full vent vent soffits has 2.6C sq. incheshq. foot rating					
Triple 3-1/3" full vent vent soffits has a 9.19 sq. incheshq. foot rating					

NOTE

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

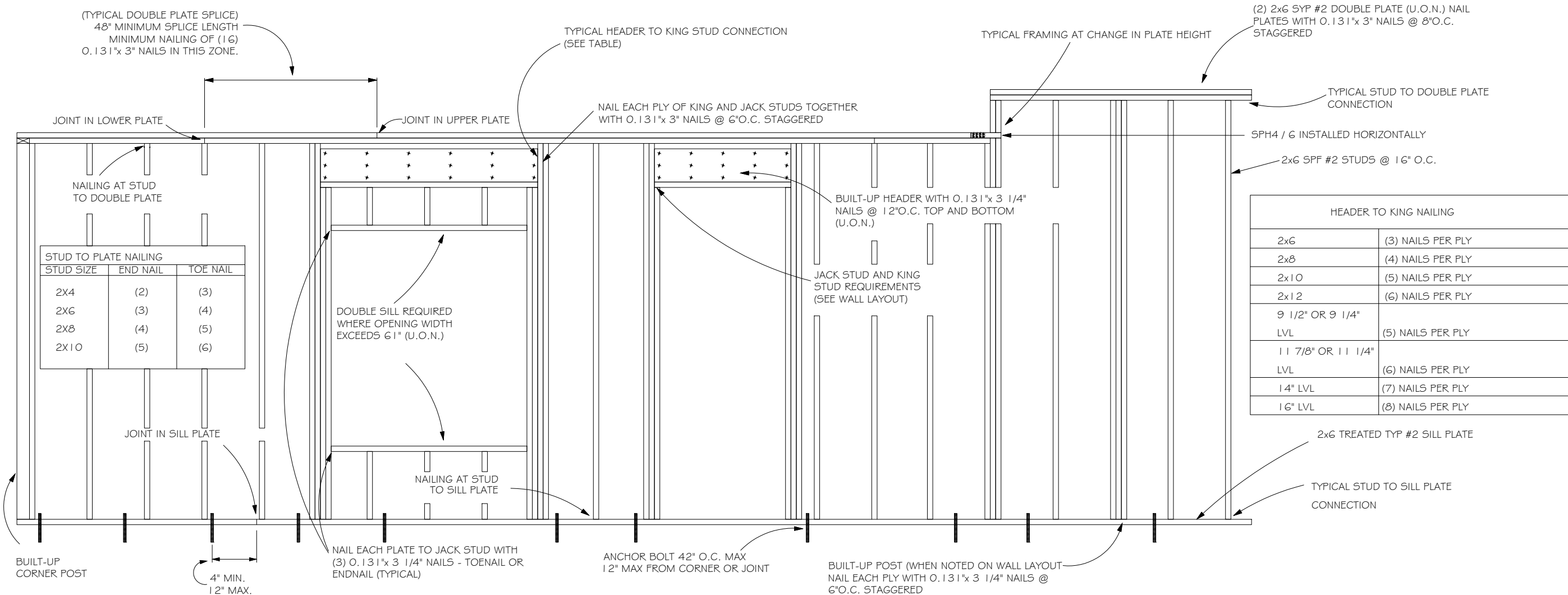


TYPICAL HEADER STRAPPING
NOT TO SCALE



4" STUD EAVE

HEADER SCHEDULE			NOTE:	
2X STUD CONTINUOUS TO TOP PLATE			UPRIFT 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			NUMBER OF HEADER STUDS (JACKS) SUPPORTING END OF HEADER	
			MAXIMUM HEADER SPAN	
			3 6 9 12 15 18	
			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
			1 1 2 2 2 2 2	
			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
			2	



TYPICAL WALL FRAMING
NOT TO SCALE