

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

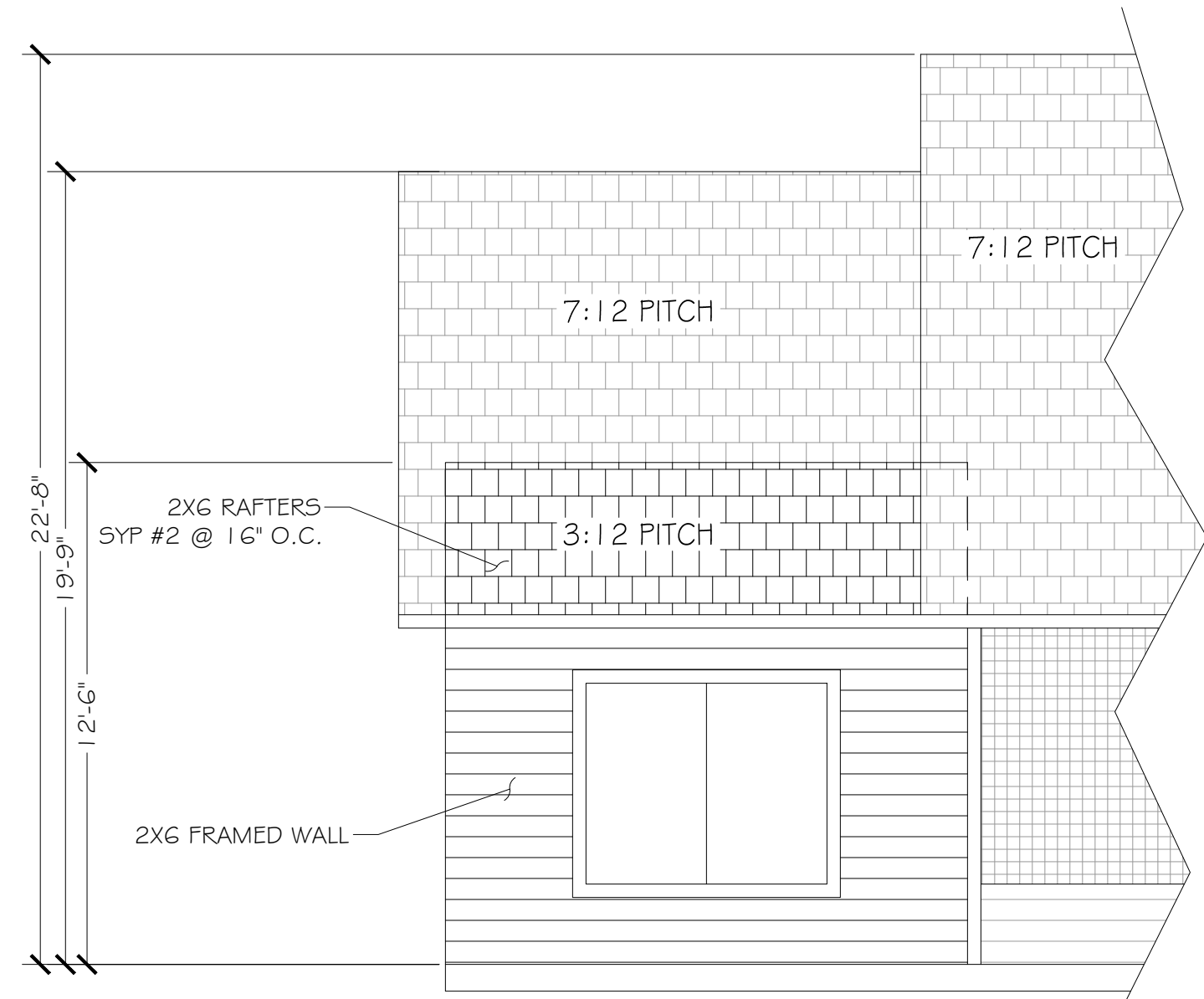
FLOORS:
LL 40 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 10 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD

- 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_{gpi} ±



END ELEVATION
SCALE: 1/4" = 1'



REAR ELEVATION
SCALE: 1/4" = 1'

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

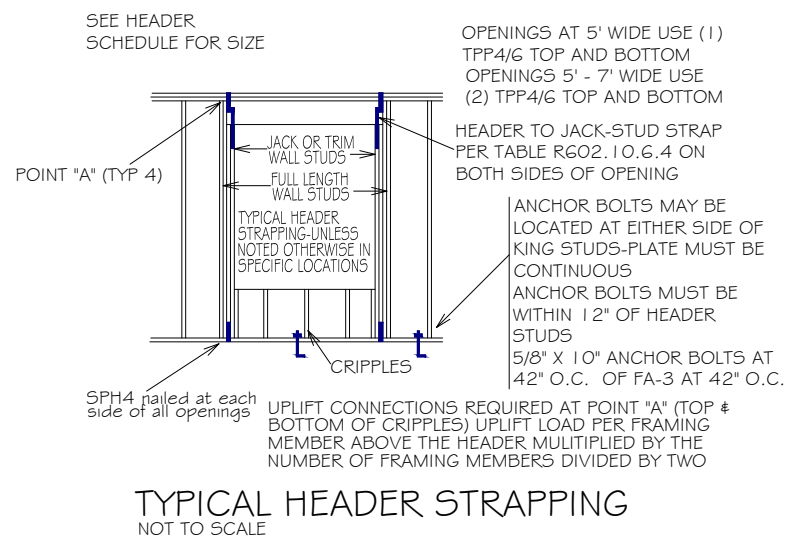
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING

Double 1 3/4" x 9-1/4" LVL beam over opening up to 12'
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 PA20 at both sides of opening embedded min 4" into concrete. LST1B strap over trimmer to header each side.

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 1.44 = BUILDING (SQ IN) BUILDING (SQ IN) / 300 = SQ IN OF VENT REQUIRED SQ IN OF VENT REQUIRED (2) = SQ IN HIGH AND 50% AT LOW PER FBC SECTION R802.2, 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/ 3G SQ IN (IN/VA) PER LINEAL FT	RIGHT	LOW	VENTS	RIGHT	LINEAL FT	LOW
(b) SOFFIT VENTS - GP T3-1/31" 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	REQUIRED	PROVIDED				
(SQ FT)						
RIGHT 11'6" (88")	216 SQ IN	216 SQ IN				
LOW 11' LINEAL FT = 9-19 SQ IN						
SOFFIT TABLE VENT SPECS						
Double 2" perforated soffits have a 6.20 sq. inches/ft. foot rating						
Triple 4" center vent soffit has a 1.95C sq. inches/ft. foot rating						
Triple 4" full vent soffit has a 5.667 sq. inches/ft. foot rating						
Triple 4" basketweave full vent has a 14.34 sq. inches/ft. foot rating						
Triple 4" center vent has a 4.76 sq. inches/ft. foot rating						
Double full vent soffit has 2.66 sq. inches/ft. foot rating						
Triple 3-1/2" full vent soffit has a 9-19 sq. inches/ft. foot rating						

NOTE

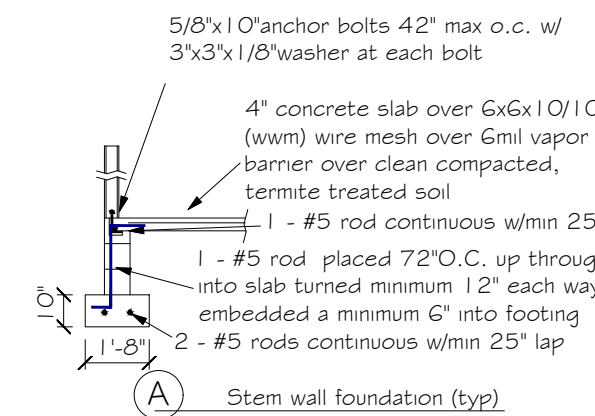
7/16" O.S.B. NAILED WITH 8D 6" O.C. IN FIELD 4" O.C. ON EDGES



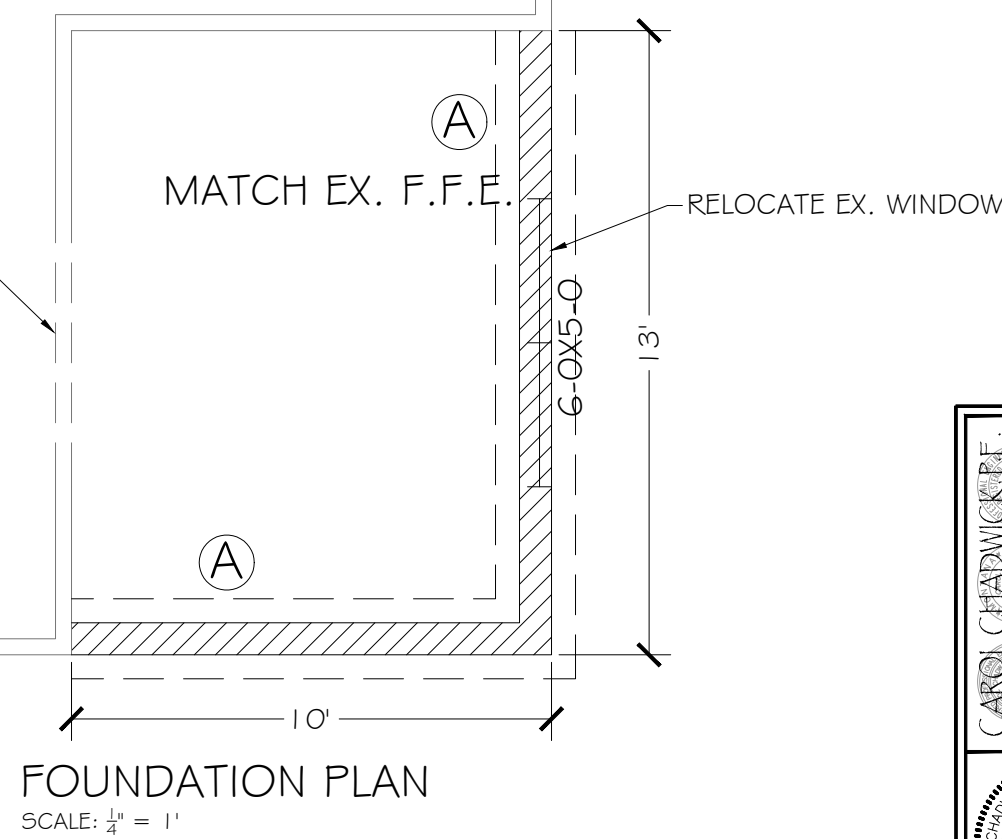
HEADER SCHEDULE			NOTE:	
2X STUD CONTINUOUS TO TOP PLATE			UP/LIFT CONNECTION IS REQUIRED AT EACH END OF HEADER AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS AND AT TOP AND BOTTOM OF CRIPPLES	
HEADER - CONTINUOUS				
2 - 2X STUDS UNDER UNITS WITH OPENINGS LARGER THEN 5'-0"				
			MAXIMUM HEADER SPAN	
			3' 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		

FOUNDATION NOTES

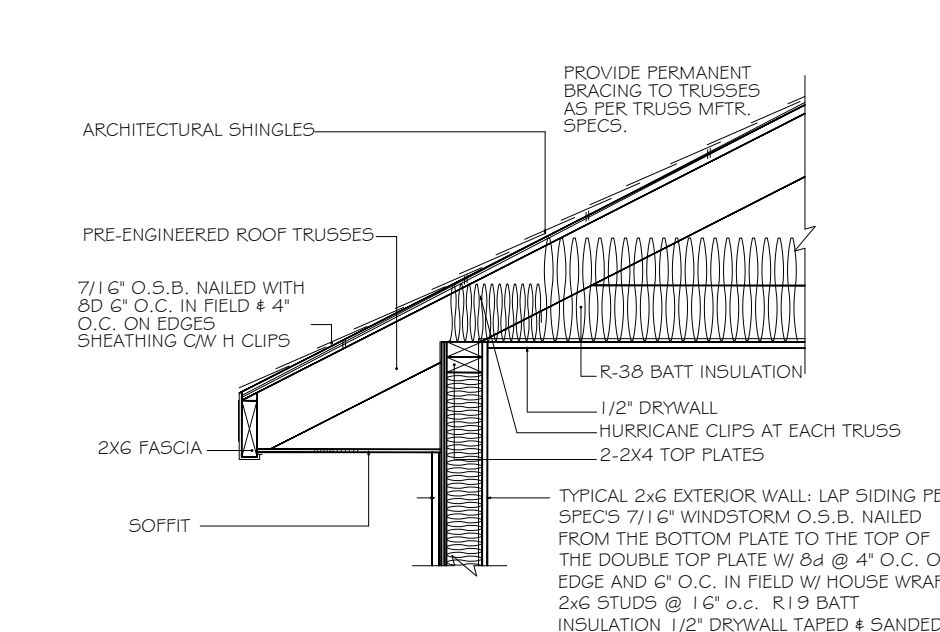
- THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED W/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE 6-MIL POLY VAPOR BARRIER W/ 6" LAPS SEALED W/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES, SECTION R403.1.4



MOVE WINDOW & FINISH OPENING

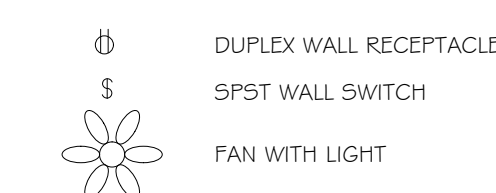


FOUNDATION PLAN
SCALE: 1/4" = 1'



4" STUD EAVE

LEGEND



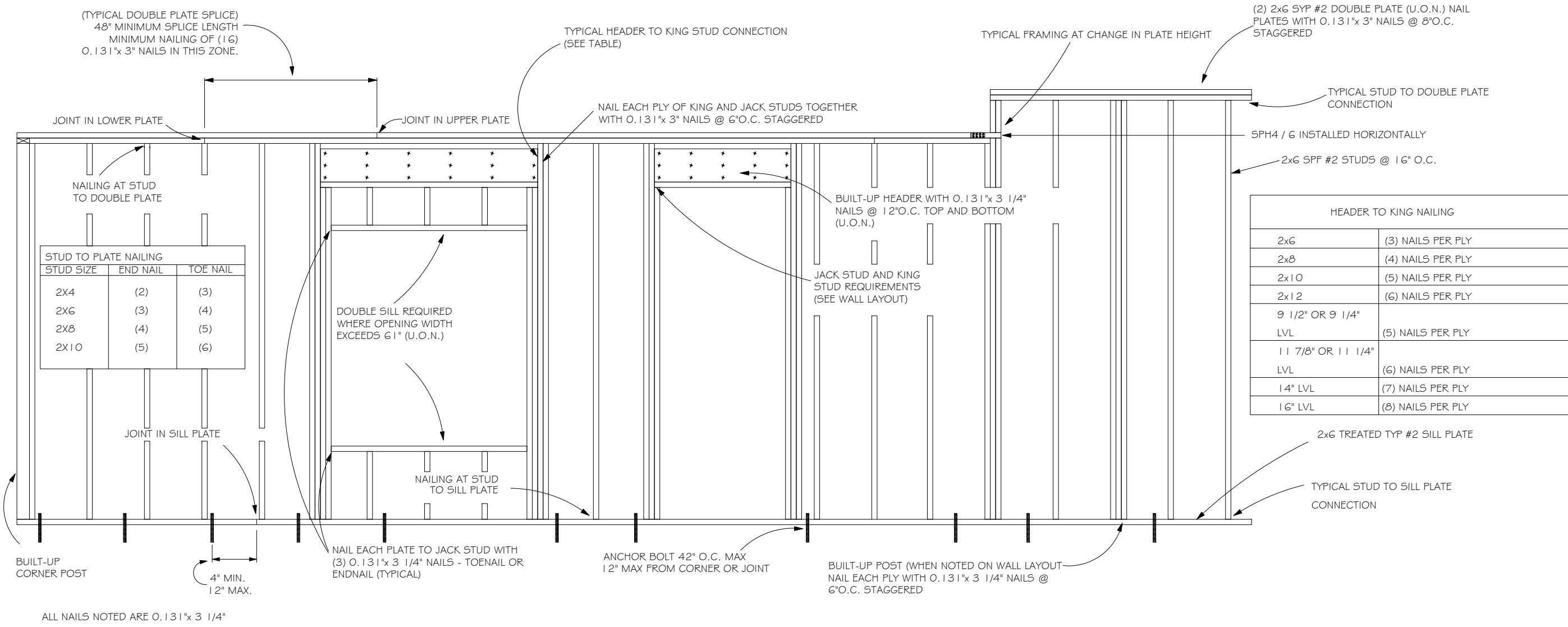
ELECTRIC PLAN

SCALE: 1/4" = 1'

ELECTRICAL NOTES

ALL ELECTRICAL TO BE INSTALLED PER CURRENT NEC CODE

- PROVIDE INTERIOR SWITCH AND EXTERIOR LIGHT IN THE VICINITY OF ALL EXTERIOR DOORS.
- PROVIDE RECEPTACLE OUTLET 6" FROM OPENINGS, END OF WALLS AND 6" ON CENTERS.
- PROVIDE AN OUTSIDE GFI, WATER PROTECTED RECEPTACLE NEAR EGRESS DOORS, AT AIR CONDENSER UNIT AND NEAR GARAGE DOOR OPENINGS.
- BATHROOM RECEPTACLES TO BE GFI WITH A SEPARATE 20 AMP CIRCUIT.
- PROVIDE SMOKE DETECTOR PER BUILDING CODE IN THE BEDROOMS AND HALLWAYS WITHIN 10' SERVING SUCH ROOMS.
- ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT, SINGLE PHASE, 15 AND 20 AMP OUTLETS INSTALLED IN DWELLING UNIT SHALL BE PROTECTED BY AN ARC-FAULT 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 IN BATH AND KITCHEN IS REQUIRED TO HAVE A 40 LUMENS PER WATT EFFICIENCY LAMP.
- LIGHT FIXTURES IN TUB OR SHOWER ENCLOSURES MUST HAVE LABEL STATING "SUITABLE 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 FOR KITCHEN APPLIANCES.
- EACH SEPARATE KITCHEN COUNTER SPACE 12" OR WIDER SHALL HAVE A RECEPTACLE.
- KITCHEN RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL IS MORE THAN 24" FROM A RECEPTACLE.
- ISLAND AND PENINSULA COUNTERTOPS 12" OR WIDER SHALL HAVE A LEAST ONE RECEPTACLE FOR EACH 4' OF COUNTERTOP.
- NOT LESS THAN 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LAMPS OR NOT LESS THAN 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICIENCY LAMPS.
- ALL CIRCUITS IN GARAGE AREA TO BE GFI RATED, 125 VOLT, SINGLE PHASE, 20 AMPERE.



TYPICAL WALL FRAMING
NOT TO SCALE

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