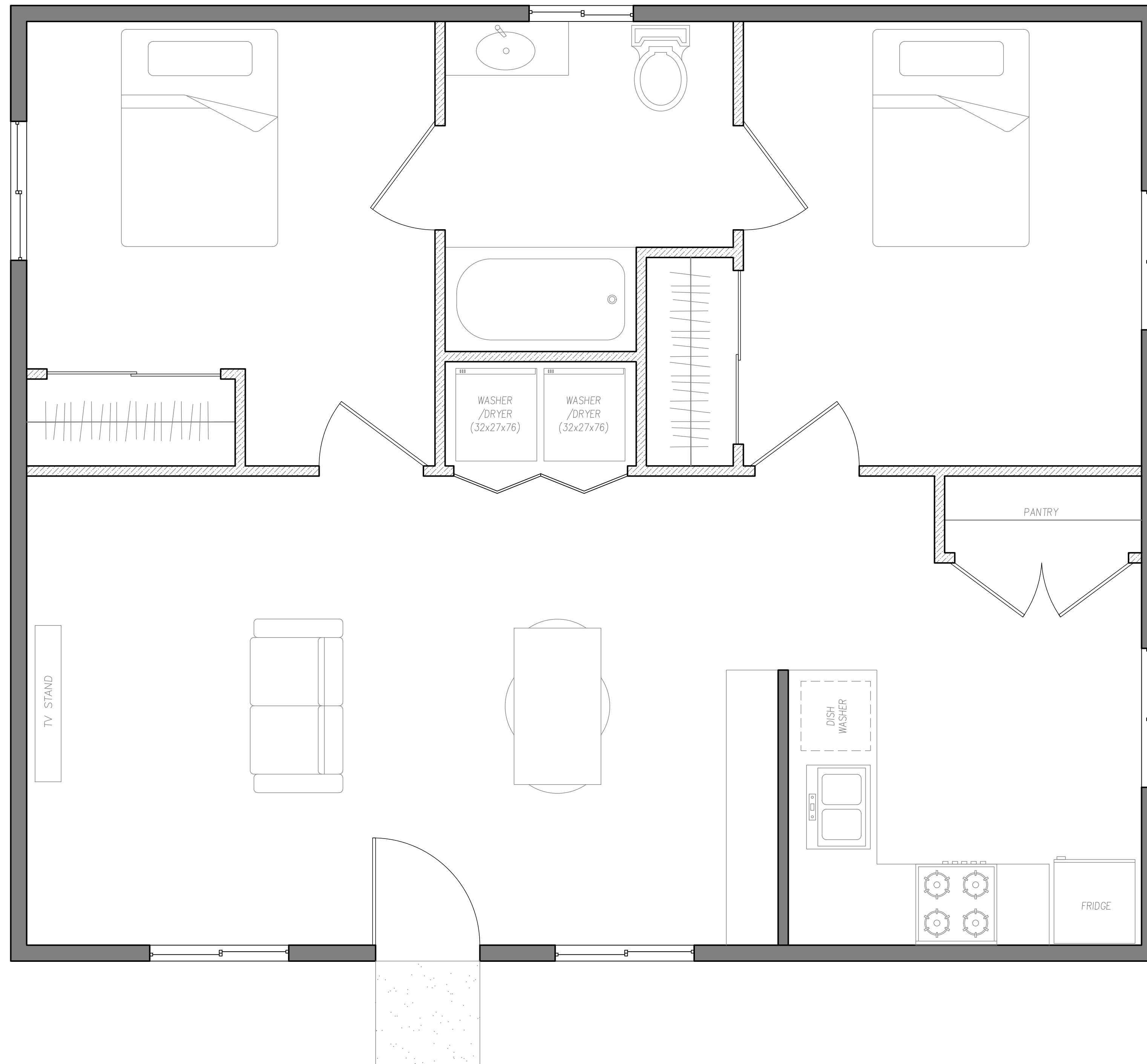


# MADERA COUNTY PRE-REVIEWED ACCESSORY DWELLING UNIT PROGRAM



**908 SQ. FT.  
2 BED 1 BATH  
ACCESSORY DWELLING UNIT  
DETACHED**

SHEET INDEX	
COVER SHEETS	
C0	COVER SHEET
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ARCHITECTURAL SHEETS	
A1	FLOOR PLAN
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STRUCTURAL SHEETS	
S1	FOUNDATION PLAN
S2	ROOF FRAMING PLAN
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ELECTRICAL SHEETS	
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MECHANICAL SHEETS	
M1	HVAC PLAN
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CALGREEN FORMS	
G1	CALGREEN FORM 1
G2	CALGREEN FORM 2
ENERGY COMPLIANCE SHEETS	
EN1	ENERGY COMPLIANCE

### ADU INFO

OCCUPANCY TYPE	R-3
CONSTRUCTION TYPE	VB
CLIMATE ZONE	13

### ADDITIONAL REQUIREMENTS DUE AT TIME OF SUBMITTAL

TRUSS DRAWINGS AND ANALYSIS  
FIRE SPRINKLER PLAN (IF REQUIRED)  
SOLAR PHOTOVOLTAIC (PV) PLAN  
STREET ADDRESSING

### BUILDING CODE:

- 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA RESIDENTIAL CODE (CRC) PART 2, TITLE 24 PART 2.5 (2021 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND CA AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2020 UNIFORM PLUMBING CODE AND AMENDMENTS)
- 2022 CALIFORNIA ENERGY CODE AND ENERGY COMMISSION STANDARDS (CECS), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11 TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12 TITLE 24 C.C.R.
- 2022 TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL
- CONTRACTOR SHALL REFER TO THE ABOVE CITED CODES AND LOCAL REGULATIONS WHERE SPECIFIC DETAILS ARE REQUIRED BUT NOT DEPICTED IN THE APPROVED PLANS.

DISCLAIMER: BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE COUNTY OF MADERA FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



REVISIONS

NO.	DATE	DESCRIPTION

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	COVER
DATE	7/23/2024
AGENCY	SW REAP

ADU SQFT  
**908**

DRAWING SCALE  
-

SHEET  
**C0**



**J. ROOFING AND WEATHERPROOFING**

- ROOF COVERING. ALL ROOF COVERING SHALL BE INSTALLED PER APPLICABLE REQUIREMENTS OF CBC 1507. ROOF COVERINGS SHALL BE AT LEAST CLASS A RATED IN ACCORDANCE WITH ASTM E 108 OR UL 790, WHICH SHALL INCLUDE COVERINGS OF SLATE, CLAY OR CONCRETE ROOF TILE, EXPOSED CONCRETE ROOF DECK, FERROUS OR COPPER SHINGLES OR SHEETS.
- ROOF FLASHING. FLASHING SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, AT GUTTERS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION, AND AROUND ROOF OPENINGS. WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION-RESISTANT WITH A THICKNESS OF NOT LESS THAN 0.019 INCH (NO. 26 GALVANIZED SHEET). (CRC R903.2.1)
- CRICKETS AND SADDLES. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERING SHALL BE SHEET METAL OR THE SAME MATERIAL AS THE ROOF COVERING. (CRC R903.2.2)
- CRICKETS AND SADDLES. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERING SHALL BE SHEET METAL OR THE SAME MATERIAL AS THE ROOF COVERING. (CRC R903.2.2)
- WATER-RESISTIVE BARRIER. A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT SHALL BE ATTACHED TO STUDS OR SHEATHING OF ALL EXTERIOR WALLS. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER MINIMUM 2 INCHES, WHERE JOINTS OCCUR; FELT SHALL BE LAPPED MINIMUM 6 INCHES. THE FELT SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MAINTAIN A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. (CRC R703.2)
- WALL FLASHING. APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE FASHION AT THE FOLLOWING LOCATIONS TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS (CRC R703.8):
  - EXTERIOR DOOR AND WINDOW OPENINGS, EXTENDING TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE
  - AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS
  - UNDER AND AT THE ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS
  - CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM
  - WHERE EXTERIOR PORCHES, DECKS, OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION
  - AT WALL AND ROOF INTERSECTIONS
  - AT BUILT-IN GUTTERS
- DAMP-PROOFING. DAMPPROOFING MATERIALS FOR FOUNDATION WALLS ENCLOSING USABLE SPACE BELOW GRADE SHALL BE INSTALLED ON THE EXTERIOR SURFACE OF THE WALL, AND SHALL EXTEND FROM THE TOP OF THE FOOTING TO FINISHED GRADE. (CRC R406.1)
- WEEP SCREED. A MINIMUM 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C 92. THE WEEP SCREED SHALL BE PLACED A MINIMUM 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE ALLOWING TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. (CRC R703.7.2.1)
- GREEN BUILDING STANDARDS CODE (CALGREEN) REQUIREMENTS APPLICABILITY. CALGREEN RESIDENTIAL MANDATORY MEASURES SHALL APPLY TO EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE AND WITHIN ANY ADDITION OR ALTERATION INCREASING A BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. (CALGREEN 101.3, CALGREEN 301.1.1)
 

EXCEPTION: ALL RESIDENTIAL BUILDINGS UNDERGOING PERMITTED ALTERATIONS, ADDITIONS, OR IMPROVEMENTS SHALL REPLACE NONCOMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES PER CALGREEN 301.1.1 AND CALGREEN 4.303.1.
- WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING PER CALGREEN 4.303.1:
  - WATER CLOSETS: MAXIMUM 1.28 GALLONS PER FLUSH
  - URINALS: MAXIMUM 0.5 GALLONS PER FLUSH
  - SINGLE SHOWERHEADS: MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI
  - MULTIPLE SHOWERHEADS SERVING ONE SHOWER: MAXIMUM COMBINED FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI
  - LAVATORY FAUCETS: MAXIMUM FLOW RATE OF 1.2 GALLONS PER MINUTE AT 60 PSI, MINIMUM FLOW RATE OF 0.8 GALLONS PER MINUTE AT 20 PSI
  - KITCHEN FAUCETS: MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI

EXCEPTION: TEMPORARY INCREASE ALLOWED TO MAXIMUM 2.2 GALLONS PER MINUTE AT 60 PSI IF FAUCET DEFAULTS BACK TO MAXIMUM 1.8 GALLONS PER MINUTE AT 60 PSI
- IRRIGATION CONTROLLERS. AUTOMATIC IRRIGATION SYSTEM CONTROLLERS FOR LANDSCAPING SHALL COMPLY WITH THE FOLLOWING (CALGREEN 4.304.1):
  - CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE.
  - WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT.
- JOINTS AND OPENINGS. OPENINGS IN THE BUILDING ENVELOPE SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE NEEDED TO ACCOMMODATE UTILITY AND OTHER PENETRATIONS MUST BE SEALED IN COMPLIANCE WITH THE CALIFORNIA ENERGY CODE. (CALGREEN 4.406.1)
 

EXCEPTION: ANNUAL SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENING WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
- CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING. REDUCE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS. (CALGREEN 4.408.1)
 

EXCEPTION: EXCAVATED SOIL AND LAND-CLEARING DEBRIS.

EXCEPTION: ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE THE CITY OF OAKLEY, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.
- CONSTRUCTION WASTE MANAGEMENT PLAN. A CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE PREPARED AND AVAILABLE ON SITE DURING CONSTRUCTION. DOCUMENTATION DEMONSTRATING COMPLIANCE WITH THE PLAN SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR THE ENFORCING AGENCY. (CALGREEN 4.408.2) THE PLAN:
  - IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE
  - SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM)
  - IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE TAKEN.
  - IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
  - SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.
- OPERATION AND MAINTENANCE MANUAL. PRIOR TO FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE, OR OTHER ACCEPTABLE MEDIA WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING (CALGREEN 4.410.1):
  - DIRECTIONS TO OWNER OR OCCUPANT THAT MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
  - OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
    - EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEM, PHOTOVOLTAIC SYSTEMS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
    - ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
    - SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
    - LANDSCAPE IRRIGATION SYSTEMS.
    - WATER REUSE SYSTEMS.
  - INFORMATION FROM LOCAL UTILITY, WATER, AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
  - PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
  - EDUCATIONAL MATERIAL ON THE POSITIVE RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
  - INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
  - INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
  - INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
  - INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
  - A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR CODE.
- COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. (CALGREEN 4.504.1)

- ADHESIVES, SEALANTS, CAULKS, PAINTS, AND COATINGS POLLUTANT CONTROL. ADHESIVES (INCLUDING CARPET ADHESIVES), SEALANTS, CAULKS, PAINTS, AND COATINGS SHALL COMPLY WITH VOC LIMITS PER CALGREEN 4.504.2. VERIFICATION OF COMPLIANCE SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. (CALGREEN 4.504.2.1)
- CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING (CALGREEN 4.504.3):
  - CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM (ALL CARPET CUSHION MUST MEET THE REQUIREMENTS OF THIS PROGRAM).
  - CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE FOR THE TESTING OF VOCs (SPECIFICATION 01350).
  - NSF/ANSI 140 AT THE GOLD LEVEL.
  - SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE™ GOLD.
- RESILIENT FLOORING SYSTEMS. AT LEAST 80 PERCENT OF THE FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OF OR MORE OF THE FOLLOWING (CALGREEN 4.504.4):
  - VOC EMISSION LIMITS DEFINED IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE
  - PRODUCTS COMPLIANT WITH CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM
  - CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM
  - MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350)
- COMPOSITE WOOD PRODUCTS. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN CALGREEN TABLE 4.504.5. THE FOLLOWING LIMITS ARE IN PARTS PER MILLION (CALGREEN 4.504.5):
 

A. HARDWOOD PLYWOOD VENEER CORE	0.05
B. HARDWOOD PLYWOOD COMPOSITE CORE	0.05
C. PARTICLE BOARD	0.09
D. MEDIUM-DENSITY FIBERBOARD (MDF)	0.11
E. THIN MDF (5/16 INCH OR LESS)	0.13
- MOISTURE CONTENT OF BUILDING MATERIALS. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING (CALGREEN 4.505.3):
  - MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER.
  - MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
  - AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.
- BATHROOMS WITH A BATHTUB AND/OR SHOWER SHALL BE MECHANICALLY VENTILATED PER THE FOLLOWING (CALGREEN 4.506.1):
  - FANS SHALL BE ENERGY STAR COMPLIANT AND DUCTED TO TERMINATE OUTSIDE BUILDING
  - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE-HOUSE VENTILATION SYSTEM, FANS SHALL HAVE HUMIDITY CONTROLS CAPABLE OF ADJUSTMENT -- MANUALLY OR AUTOMATICALLY -- BETWEEN A RELATIVE HUMIDITY RANGE OF 50% TO 80%.
- HEATING AND AIR-CONDITIONING SYSTEM DESIGN. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED, AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS (CALGREEN 4.507.2):
  - THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J, ASHRAE HANDBOOKS, OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
  - DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D 2009, ASHRAE HANDBOOKS, OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
  - SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ACCA 36-S MANUAL S OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS

**2022 CRC TABLE R602.3(3) - REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES**

MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (Inches)	MAXIMUM WALL STUD SPACING (Inches)	PANEL NAIL SPACING	
Size	Penetration (Inches)				Edges (Inches o.c.)	Field (Inches o.c.)
6d Common (2.0" x 0.113")	1.5	24/0	3/8	16	6	12
				16	6	12
8d Common (2.5" x 0.131")	1.75	24/16	7/16	24	6	12

**THESE ARE MINIMUM REQUIREMENTS AND SHALL NOT SUPERSEDE MORE RESTRICTIVE SPECIFICATIONS ON THE PLANS OR AS REQUIRED BY APPLICABLE CODE.**

TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>a,b,c</sup>	SPACING OF FASTENERS
<b>Roof</b>			
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2 1/2" x 0.113")	---
2	Ceiling joists to plate, toe nail	3-8d (2 1/2" x 0.113")	---
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	---
4	Collar tie to rafter, face nail or 1 1/4" x 20 gage ridge strap	3-10d (3" x 0.128")	---
5	Rafter or roof truss to plate, toe nail	3-16d box nails (3 1/2" x 0.135") or 3-10d common nails (3" x 0.148")	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss <sup>d</sup>
6	Roof rafters to ridge, valley or hip rafters: toe nail face nail	4-16d (3 1/2" x 0.135") 3-16d (3 1/2" x 0.135")	---
<b>Wall</b>			
7	Built-up studs-face nail	10d (3" x 0.128")	24" o.c.
8	Abutting studs at intersecting wall corners, face nail	16d (3 1/2" x 0.135")	12" o.c.
9	Built-up header, two pieces with 1/2" spacer	16d (3 1/2" x 0.135")	16" o.c. along each edge
10	Continued header, two pieces	16d (3 1/2" x 0.135")	16" o.c. along each edge
11	Continuous header to stud, toe nail	4-8d (2 1/2" x 0.113")	---
12	Double studs, face nail	10d (3" x 0.128")	24" o.c.
13	Double top plates, face nail	10d (3" x 0.128")	24" o.c.
14	Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	8-16d (3 1/2" x 0.135")	---
15	Sole plate to joist or blocking, face nail	16d (3 1/2" x 0.135")	16" o.c.
16	Sole plate to joist or blocking at braced wall panels	3-16d (3 1/2" x 0.135")	16" o.c.
17	Stud to sole plate, toe nail	3-8d (2 1/2" x 0.113") or 2-16d (3 1/2" x 0.135")	---
18	Top or sole plate to stud, end nail	2-16d (3 1/2" x 0.135")	---
19	Top plates, laps at corners and intersections, face nail	2-10d (3" x 0.128")	---
20	1" brace to each stud and plate, face nail	2-8d (2 1/2" x 0.113") 2 staples 1 1/4"	---
21	1" x 6" sheathing to each bearing, face nail	2-8d (2 1/2" x 0.113") 2 staples 1 1/4"	---
22	1" x 8" sheathing to each bearing, face nail	2-8d (2 1/2" x 0.113") 3 staples 1 1/4"	---
23	Wider than 1" x 8" sheathing to each bearing, face nail	3-8d (2 1/2" x 0.113") 4 staples 1 1/4"	---
<b>Floor</b>			
24	Joist to sill or girder, toe nail	3-8d (2 1/2" x 0.113")	---
25	Rim joist to top plate, toe nail (roof applications also)	8d (2 1/2" x 0.113")	6" o.c.
26	Rim joist or blocking to sill plate, toe nail	8d (2 1/2" x 0.113")	6" o.c.
27	1" x 6" subfloor or less to each joist, face nail	2-8d (2 1/2" x 0.113") 2 staples 1 1/4"	---
28	2" subfloor to joist or girder, blind and face nail	2-16d (3 1/2" x 0.135")	---
29	2" planks (plank & beam - floor & roof)	2-16d (3 1/2" x 0.135")	at each bearing
30	Built-up girders and beams, 2-inch lumber layers	10d (3" x 0.128")	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
31	Ledger strip supporting joists or rafters	3-16d (3 1/2" x 0.135")	At each joist or rafter
<b>Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing</b>			
32	3/8" - 1/2"	6d common (2" x 0.113") nail (subfloor, wall) 8d common (2 1/2" x 0.131") nail (roof) <sup>f</sup>	6 12 <sup>g</sup>
33	1/2" - 1"	8d common nail (2 1/2" x 0.131")	6 12 <sup>g</sup>
34	1 1/8" - 1 1/4"	10d common (3" x 0.148") nail or 8d (2 1/2" x 0.131") deformed nail	6 12
<b>Other wall sheathing<sup>h</sup></b>			
35	1/2" structural cellulose fiberboard sheathing	1 1/2" galvanized roofing nail, 1/16" crown or 1" crown staple 16 ga., 1 1/4" long	3 6
36	5/8" structural cellulose fiberboard sheathing	1 1/2" galvanized roofing nail, 1/16" crown or 1" crown staple 16 ga., 1 1/2" long	3 6
37	1/2" gypsum sheathing <sup>i</sup>	1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7 7
38	5/8" gypsum sheathing <sup>i</sup>	1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7 7
<b>Wood structural panels, combination subfloor underlayment to framing</b>			
39	3/4" and less	6d deformed (2" x 0.120") nail or 8d common (2 1/2" x 0.131") nail	6 12
40	7/8" - 1"	8d common (2 1/2" x 0.131") nail or 8d deformed (2 1/2" x 0.120") nail	6 12
41	1 1/8" - 1 1/4"	10d common (3" x 0.148") nail or 8d deformed (2 1/2" x 0.120") nail	6 12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa.

- Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.
- Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.
- Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically.
- Spacing of fasteners not included in this table shall be based on Table R602.3(2).
- For wood structural panel roof sheathing attached to gable end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 6 inches on center where the ultimate design wind speed is less than 130 mph and shall be spaced 4 inches on center where the ultimate design wind speed is 130 mph or greater but less than 140 mph.
- Gypsum sheathing shall conform to ASTM C1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C208.
- Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.
- Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.
- RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

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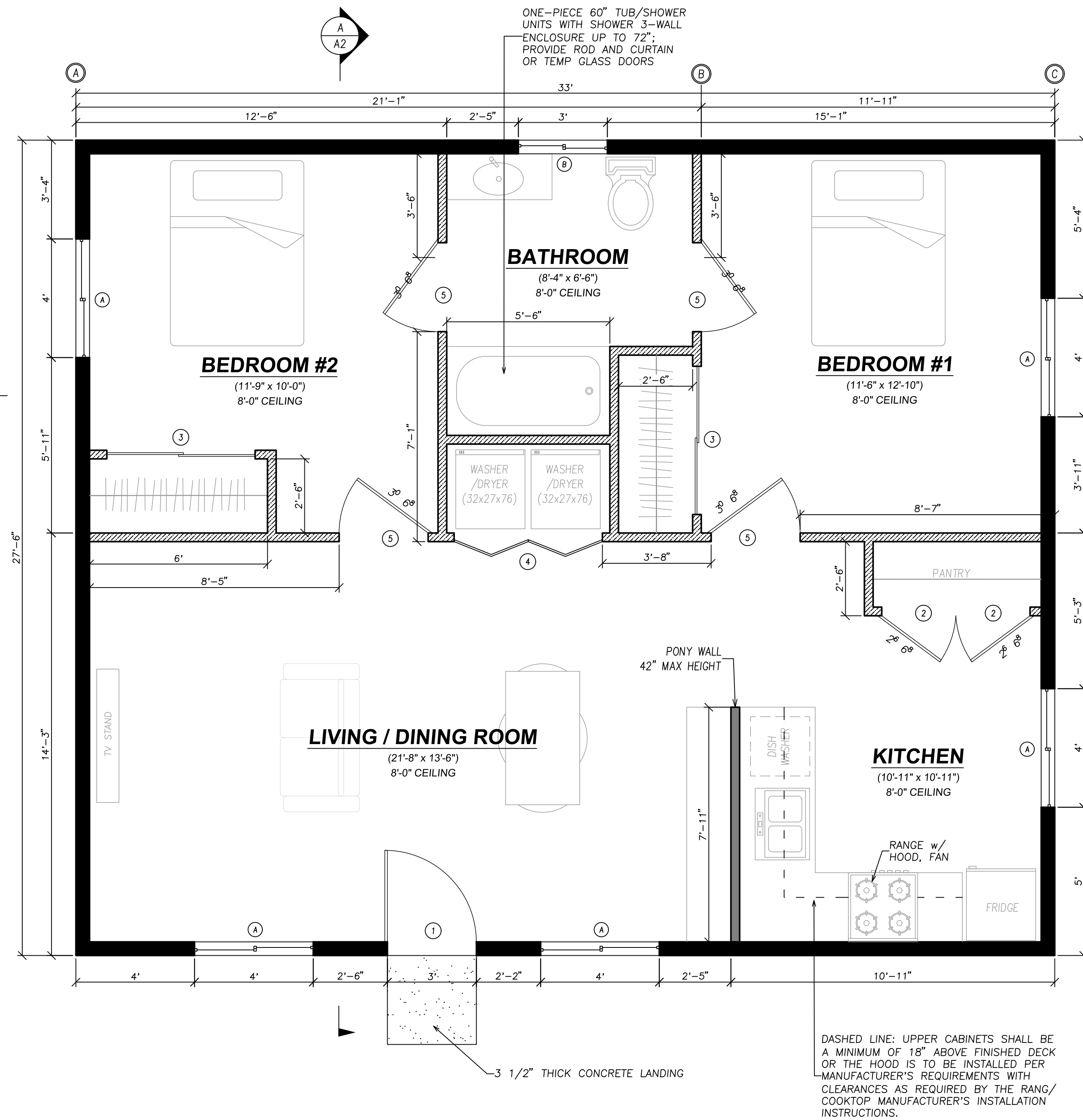
**REVISIONS**


PROJECT TITLE MADERA COUNTY - PRE-REWEVED ADU PROGRAM	SHEET DESCRIPTION COVER	DATE	7/23/2024
		AGENCY SJV REAP	

ADU SOFT  
**908**

DRAWING SCALE  
-

SHEET  
**C2**



WINDOW SCHEDULE				
MARK	DIMENSION	TYPE	TEMPERED	NOTES
(A)	4'-0" x 4'-0"	SLIDING	-	-
(B)	3'-0" x 1'-0"	SLIDING	TEMPERED GLAZING	6' ABOVE FLOOR

DOOR SCHEDULE			
MARK	DIMENSION	TYPE	NOTES
(1)	3'-0" x 6'-8"	SWINGING	1-3/8" SOLID CORE
(2)	2'-6" x 6'-8"	SWINGING	1-3/8" HOLLOW CORE
(3)	5'-6" x 6'-8"	SLIDING	5'-6" CLOSET
(4)	5'-0" x 6'-8"	BI-FOLD	LAUNDRY COVERING w/ VENTILATION SLATS
(5)	3'-0" x 6'-8"	SWINGING	1-3/8" HOLLOW CORE

MINIMUM LI = 0.32 SHCC = 0.28

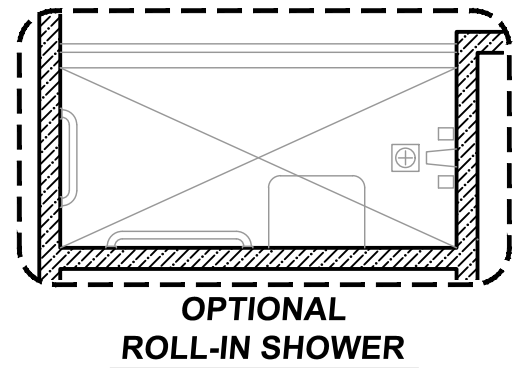
THE BOTTOM OF THE CLEAR OPENING OF WINDOWS IN SLEEPING ROOMS SHALL NOT BE MORE THAN 44" ABOVE THE FLOOR (CRC R310.2.3)

**LEGEND**

**EXTERIOR LOAD BEARING** 2 x 6 @ 16" o.c., 9 ft PL HT; REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR WALL COVERINGS; 1/2" WALLBOARD INTERIOR; R-21 BATT INSULATION IN STUD CAVITY; APA CDX PLYWD OR OSB SHEATHING ON EXTERIOR FACE OF STUDS; 2 LAYERS NO. 15 BUILDING PAPER OVER PLWD R-5 RIGID INSUL ON EXTERIOR FACE OF SHEATHING.

**INTERIOR NON-LOAD-BEARING WALL** 2 x 4 @ 16" o.c., 1/2" WALLBOARD INTERIOR

EXCERPT FROM CRC R311.3 FLOORS AND LANDINGS AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL BE NOT LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A DIMENSION OF NOT LESS THAN 36 INCHES (914 MM) MEASURED IN THE DIRECTION OF TRAVEL. THE SLOPE AT EXTERIOR LANDINGS SHALL NOT EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2 PERCENT).



EXCERPT FROM R602.3.3 - BEARING STUDS WHERE JOISTS, TRUSSES OR RAFTERS ARE SPACED MORE THAN 16 INCHES (406 MM) ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES (610 MM) ON CENTER, SUCH MEMBERS SHALL BEAR WITHIN 5 INCHES (127 MM) OF THE STUDS BENEATH.

**AGING-IN-PLACE**

AGING-IN-PLACE DESIGN AND FALL PREVENTION. NEWLY CONSTRUCTED DWELLINGS SUBJECT TO THE REQUIREMENTS OF THIS CODE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTIONS R327.1.1 THROUGH R327.1.4.PAGE

**REINFORCEMENT FOR GRAB BARS [CRC 327.1.1]**

- AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION.
  - INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFORCEMENT SHALL BE PLACED IN THE OPERATION AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE, CHAPTER 4, DIVISION 4.4.
  - REINFORCEMENT SHALL NOT BE LESS THAN 2"x8" NOMINAL LUMBER (1-1/2"x7-1/4" ACTUAL DIMENSION) OR OTHER CONSTRUCTION MATERIAL PROVIDING EQUAL HEIGHT AND LOAD CAPACITY. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING.
  - WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL.
  - SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.
  - BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES (152.4 MM) ABOVE THE BATHTUB RIM.
- EXCEPTIONS:
- WHERE THE WATER CLOSET IS NOT PLACED ADJACENT TO A SIDE WALL CAPABLE OF ACCOMMODATING A GRAB BAR, THE BATHROOM SHALL HAVE PROVISIONS FOR INSTALLATION OF FLOOR-MOUNTED, FOLDAWAY OR SIMILAR ALTERNATE GRAB BAR REINFORCEMENTS APPROVED BY THE ENFORCING AGENCY.
  - REINFORCEMENT SHALL NOT BE REQUIRED IN WALL FRAMING FOR PRE-FABRICATED SHOWER ENCLOSURES AND BATHTUB WALL PANELS WITH INTEGRAL FACTORY-INSTALLED GRAB BARS OR WHEN FACTORY-INSTALLED REINFORCEMENT FOR GRAB BARS IS PROVIDED.
  - SHOWER ENCLOSURES THAT DO NOT PERMIT INSTALLATION OF REINFORCEMENT AND/OR GRAB BARS SHALL BE PERMITTED, PROVIDED REINFORCEMENT FOR INSTALLATION OF FLOOR-MOUNTED GRAB BARS OR AN ALTERNATE METHOD IS APPROVED BY THE ENFORCING AGENCY.
  - BATHTUBS WITH NO SURROUNDING WALLS, OR WHERE WALL PANELS DO NOT PERMIT THE INSTALLATION OF REINFORCEMENT SHALL BE PERMITTED, PROVIDED REINFORCEMENT FOR INSTALLATION OF FLOOR-MOUNTED GRAB BARS ADJACENT TO THE BATHTUB OR AN ALTERNATE METHOD IS APPROVED BY THE ENFORCING AGENCY.
  - REINFORCEMENT OF FLOORS SHALL NOT BE REQUIRED FOR BATHTUBS AND WATER CLOSETS INSTALLED ON CONCRETE SLAB FLOORS.

**ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROLS [CRC 327.1.2]**

ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROL HEIGHTS. ELECTRICAL RECEPTACLE OUTLETS, SWITCHES AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR.

EXCEPTIONS:

- DEDICATED RECEPTACLE OUTLETS; FLOOR RECEPTACLE OUTLETS; CONTROLS MOUNTED ON CEILING FANS AND CEILING LIGHTS; AND CONTROLS LOCATED ON APPLIANCES.
- RECEPTACLE OUTLETS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE ON A WALL SPACE WHERE THE DISTANCE BETWEEN THE FINISHED FLOOR AND A BUILT-IN FEATURE ABOVE THE FINISH FLOOR, SUCH AS A WINDOW, IS LESS THAN 15 INCHES (381 MM).

**INTERIOR DOORS [CRC R327.1.3]**

EFFECTIVE JULY 1, 2024, AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION; OR, IN THE CASE OF A TWO- OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IS NOT LOCATED ON THE ENTRY LEVEL.

**DOORBELL BUTTONS [CRC R327.1.4]**

DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48 INCHES (1219.2 MM) ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48 INCHES MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL.

**OPTIONAL ROLL-IN SHOWER PLAN NOTES**

NOTE: OPTIONAL ROLL IN SHOWERS OFFERED FOR CONVENIENCE NOT FOR COMPLIANCE WITH ACCESSIBILITY STANDARDS.

**THRESHOLDS [CBC 1127A.5.3.2]**

SHALL BE 1/2" MAX. IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50% SLOPE).

**FLOOR [CBC 1127A.5.3.4]**

SHOWER COMPARTMENT FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANCE. THE MAXIMUM SLOPE SHALL BE 1/4" PER FOOT IN ANY DIRECTION. WHERE DRAINS ARE PROVIDED, GRATE OPENINGS SHALL BE 1/4" MAX. AND LOCATED FLUSH WITH THE FLOOR SURFACE.

**CONTROLS [CBC 1127A.5.3.5]**

CONTROLS, FAUCETS AND SHOWER SPRAY UNITS IN SHOWER COMPARTMENTS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM. ALL CONTROLS AND FAUCETS SHALL BE OF A SINGLE-LEVER DESIGN.

**STANDARD ROLL-IN SHOWER COMPARTMENTS: [CBC 1127A.5.3.5.1]**

OPERABLE PARTS OF SHOWER CONTROLS AND FAUCETS: SHALL BE INSTALLED ON THE BACK WALL OF SHOWER COMPARTMENT ADJACENT TO THE SEAT WALL, 19 INCHES MIN. AND 27 INCHES MAX. FROM THE SEAT WALL. SHALL BE LOCATED ABOVE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR WITH THEIR CENTERLINE AT 39 INCHES MIN. AND 41 INCHES MAX. ABOVE SHOWER FLOOR.

**HAND-HELD SHOWER SPRAYER UNIT [CBC 1127A.5.3.6]**

A FLEXIBLE HAND-HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 59 INCHES LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS.

**SHOWER COMPARTMENT SEAT**

- MUST BE FOLDING TYPE, INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS. SEAT SHALL NOT EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. SEAT SHALL BE LOCATED WITHIN 27 INCHES OF SHOWER CONTROLS. THE TOP OF THE SEAT SHALL BE 17 INCHES MIN. AND 19 INCHES MAX. ABOVE BATHROOM FINISHED FLOOR. WHEN FOLDED THE SEAT SHALL NOT EXTEND MORE THAN 6 INCHES FROM THE MOUNTING WALL. [CBC 1127A.5.3.7]
- STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE [CBC 1127A.4.4]

**SHOWER GRAB BARS**

- GRAB BARS SHALL BE INSTALLED ON THE BACK WALL AND ON THE SIDE WALL OPPOSITE THE SEAT. SHALL BE ABOVE THE SEAT ARE NOT PERMITTED. SHALL BE INSTALLED 6 INCHES MAX. FROM ADJACENT WALLS. [CBC 1127A.5.3.8.1]
  - SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MIN. AND 36 INCHES MAX. ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. [CBC 1127A.4.2]
  - GRAB BARS WITH CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4" MIN. AND 2" MAX. [CBC 1127A.4.3.1]
  - GRAB BARS WITH NON-CIRCULAR CROSS SECTION SHALL HAVE A DIMENSION OF 2" MAX. THE PERIMETER DIMENSION OF GRAB BARS WITH NON-CIRCULAR CROSS SECTION SHALL BE 4 INCHES MIN. AND 4.8" MAX. [CBC 1127A.4.3.2]
  - STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE [CBC 1127A.4.4]
  - A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. [CBC 1127A.4.5]
  - WHEN GRAB BARS MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MIN.
- EXCEPTIONS:
- THE SPACE BETWEEN THE GRAB BARS AND SHOWER CONTROLS, SHOWER FITTINGS AND OTHER GRAB BARS ABOVE SHALL BE PERMITTED TO BE 11/2 INCHES MIN.
  - FOR L-SHAPED OR U-SHAPED GRAB BARS THE SPACE BETWEEN THE WALLS AND THE GRAB BAR SHALL BE 11/2 INCHES MIN. FOR A DISTANCE OF 6 INCHES ON EITHER SIDE OF THE INSIDE CORNER BETWEEN TWO ADJACENT WALL SURFACES. [CBC 1127A.4.6]

**SOAP DISH [CBC 1127A.5.3.9]**

WHEN A SOAP DISH IS PROVIDED, IT SHALL BE LOCATED ON THE CONTROL WALL AT A MAXIMUM HEIGHT OF 40 INCHES ABOVE THE SHOWER FLOOR, AND WITHIN THE REACH LIMITS FROM THE SEAT.

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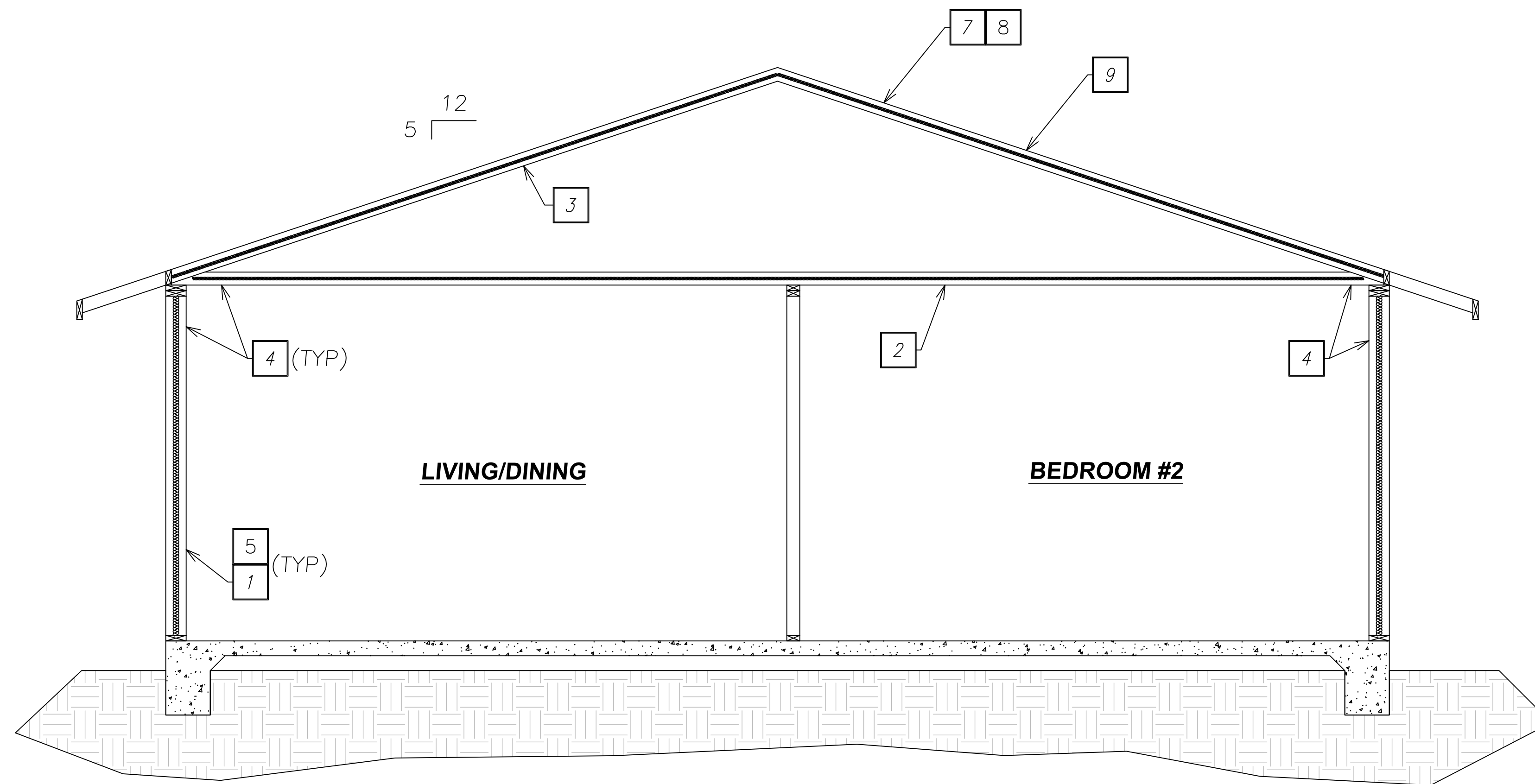
NO.	DESCRIPTION	DATE

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	FLOOR PLAN
AGENCY	SJV REAP
DATE	7/23/2024

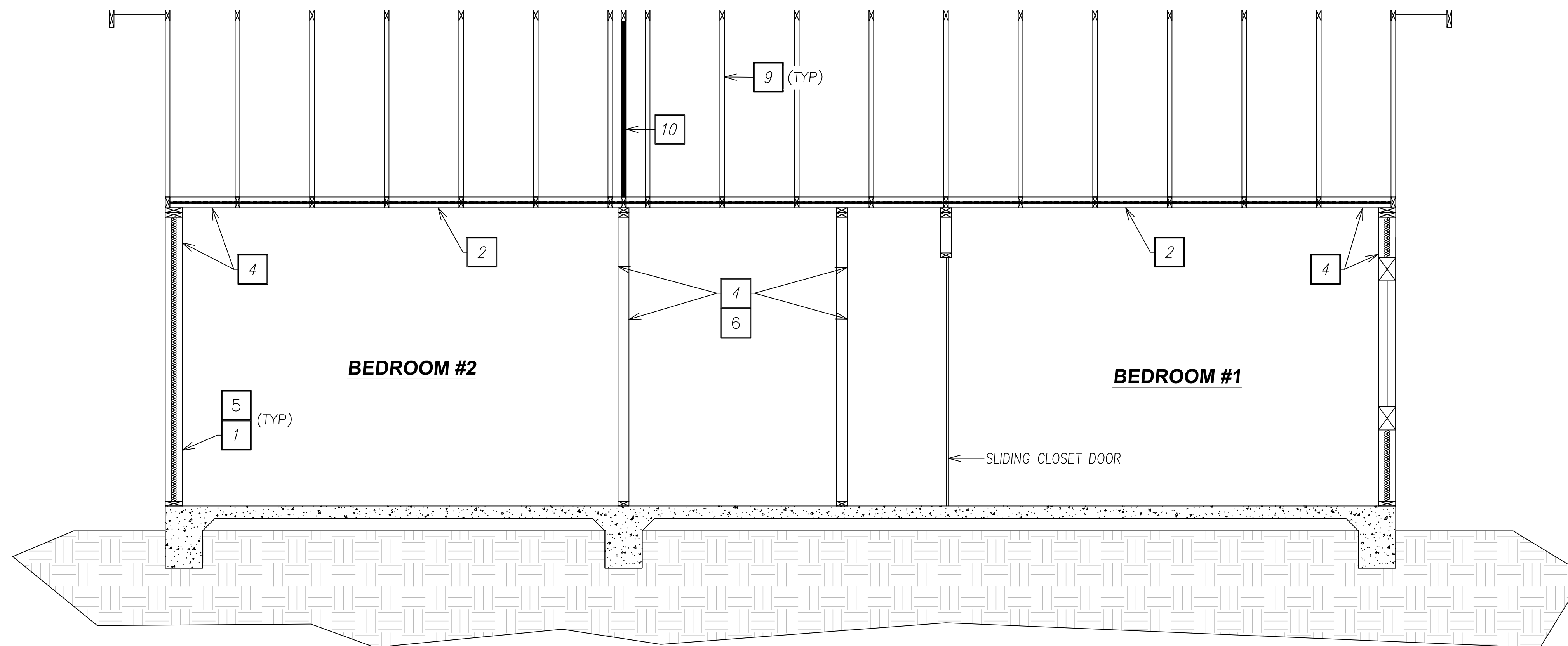
ADU SOFT  
**908**

DRAWING SCALE  
**3/8" = 1'**

SHEET  
**A1**



SECTION A - A



SECTION B - B

SECTION KEYNOTES

- 1 WALL INSULATION: R21
- 2 CEILING INSULATION: R38
- 3 ROOF INSULATION: R13
- 4 INTERIOR FINISH: ½" GYPSUM BOARD (UNLESS WALL IS FIRE RESISTANT ASSEMBLY)
- 5 EXTERIOR WALL: 2x6 STUD WALL @ 24" O.C.
- 6 INTERIOR WALL: 2x4 STUD WALL @ 24" O.C.
- 7 RADIANT BARRIER IS REQUIRED
- 8 ROOFING: SEE ELEVATIONS
- 9 MANUFACTURED TRUSSES (DEFERRED APPROVAL)
- 10 MANUFACTURED DRAG TRUSS

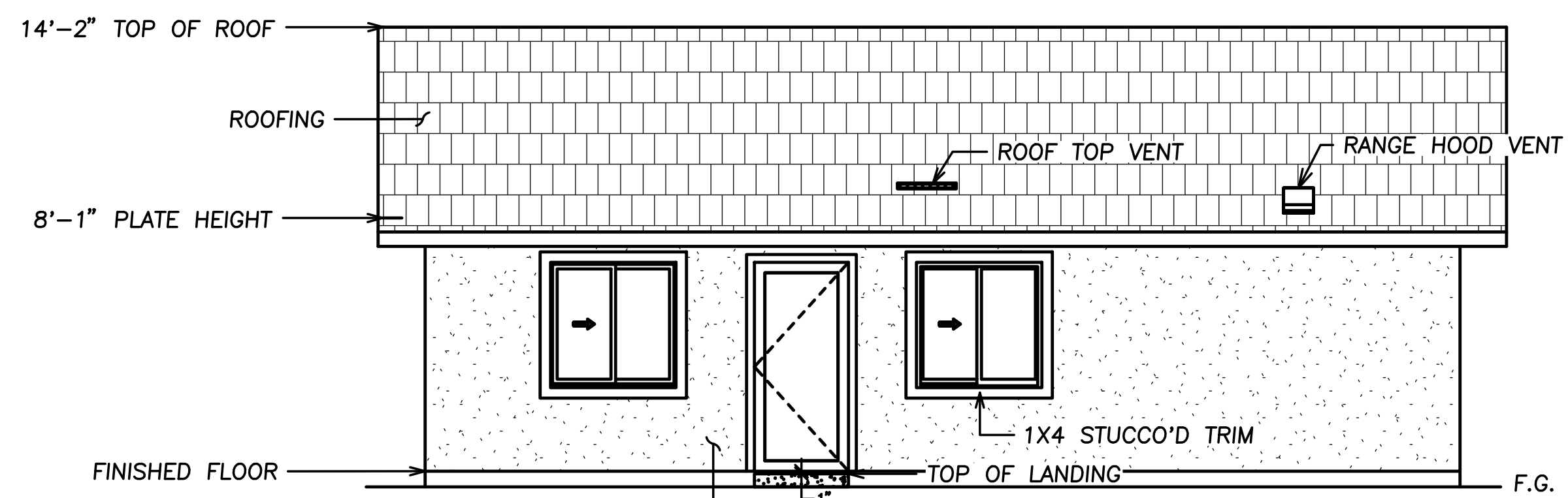
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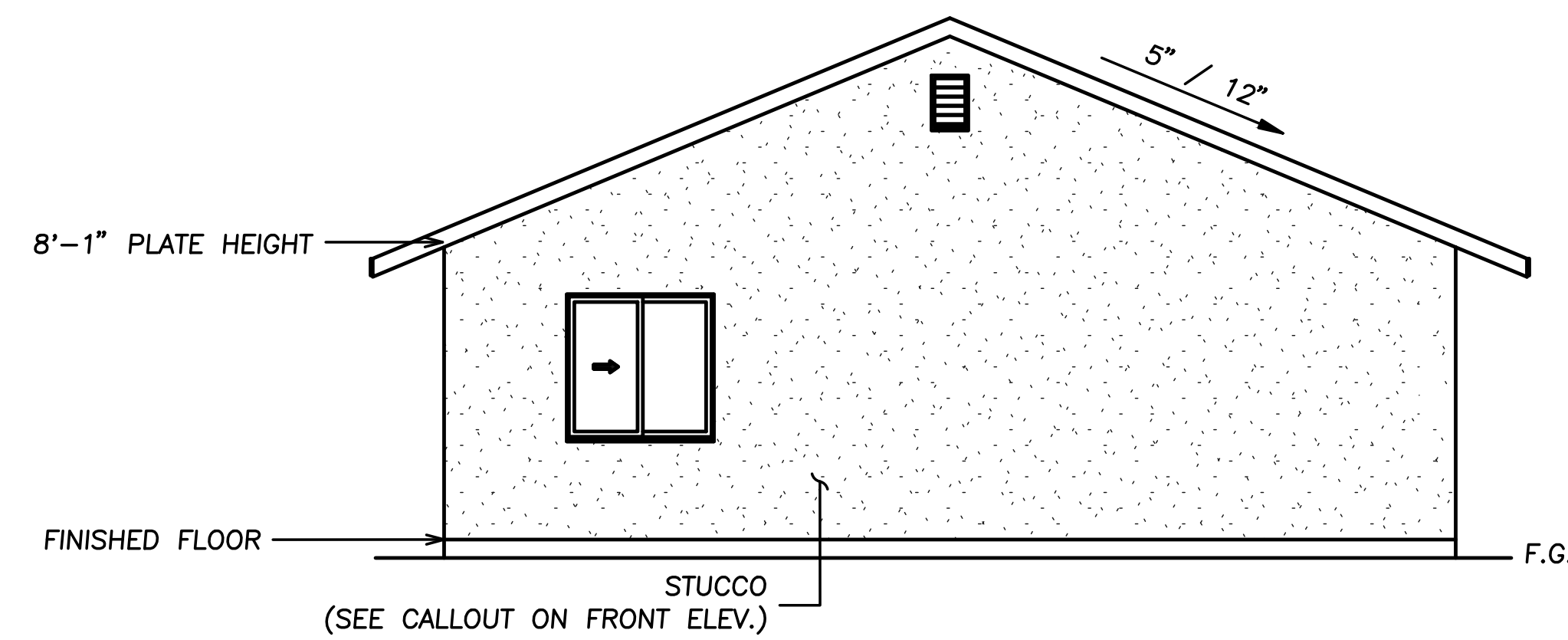
NO.	DESCRIPTION	DATE

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	SECTIONS
AGENCY	DATE
	7/23/2024
ADU SQFT	908
DRAWING SCALE	1/2" = 1'
SHEET	A2

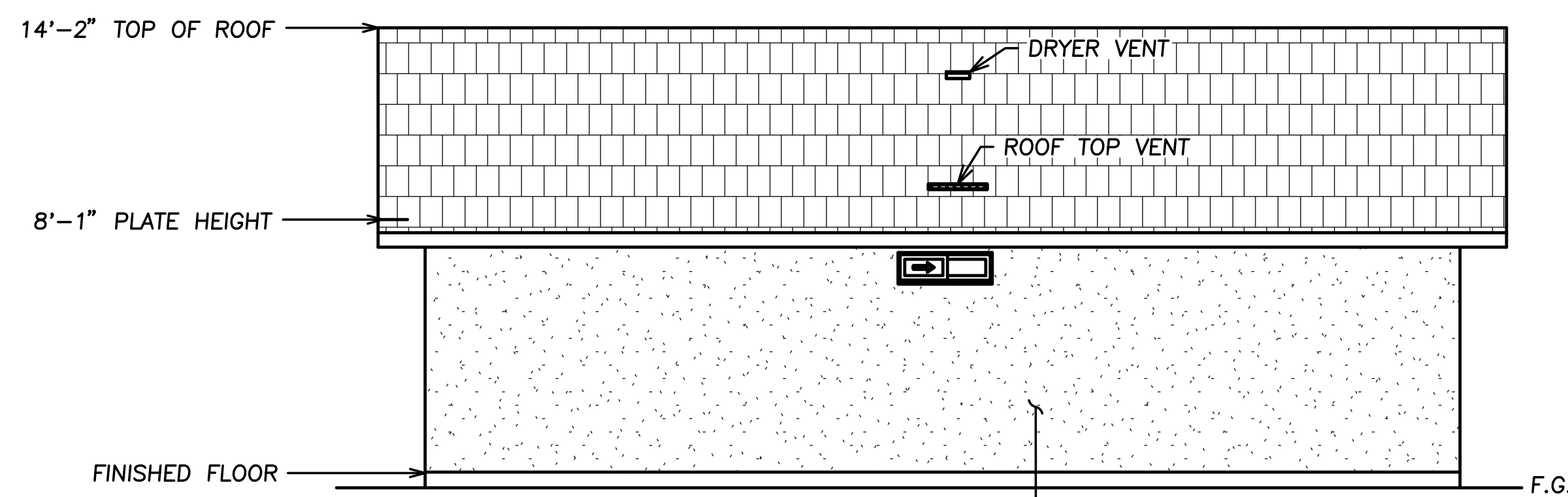


1 COAT STUCCO SYSTEM WITH R5 FOAM, TWO LAYERS OF TYPE 'D' PAPER UNDERLAYMENT WHERE LATH IS TO BE APPLIED OVER WOOD SHEATHING, AND 26 GAUGE GALVANIZED WEEP SCREED AT FOUNDATION PLATE LINE AT LEAST 4" ABOVE GRADE (OR 2" ABOVE CONCRETE OR PAVING) [CRC703.7] (TYP.)

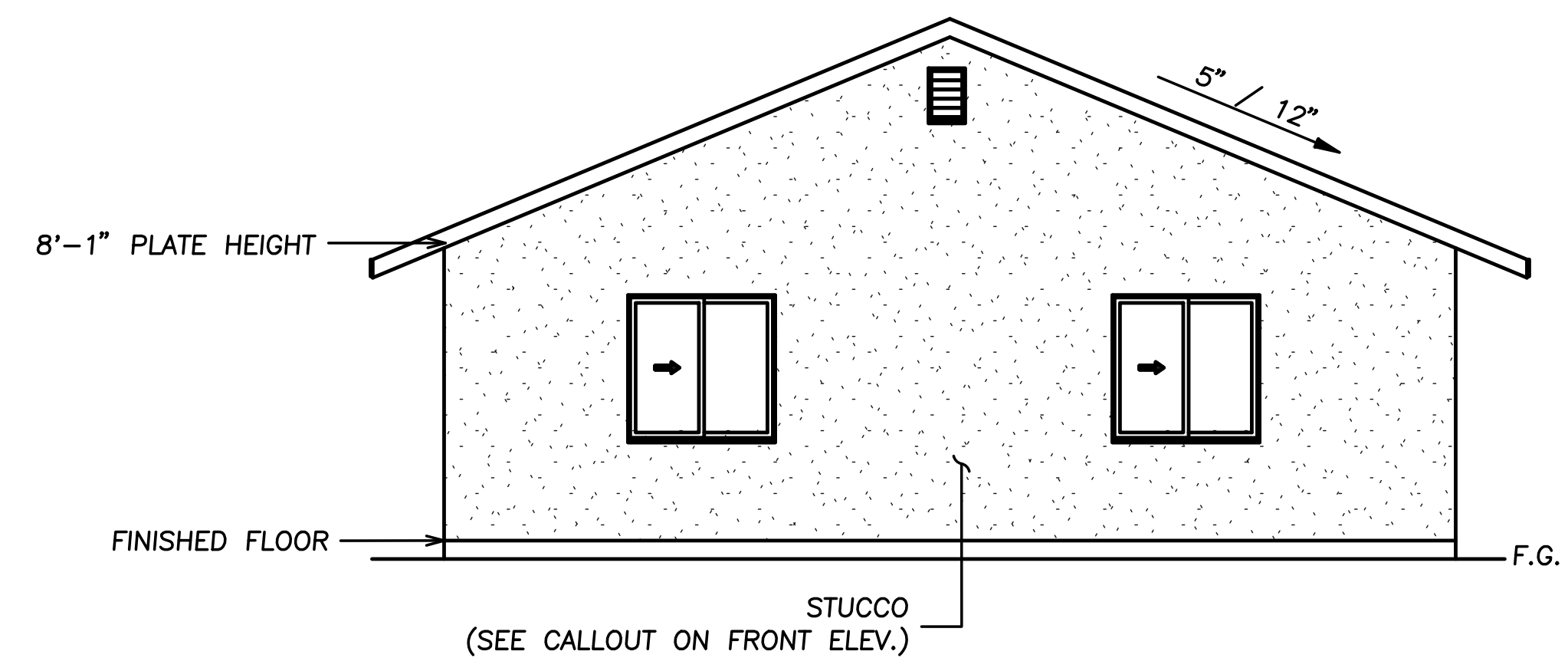
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

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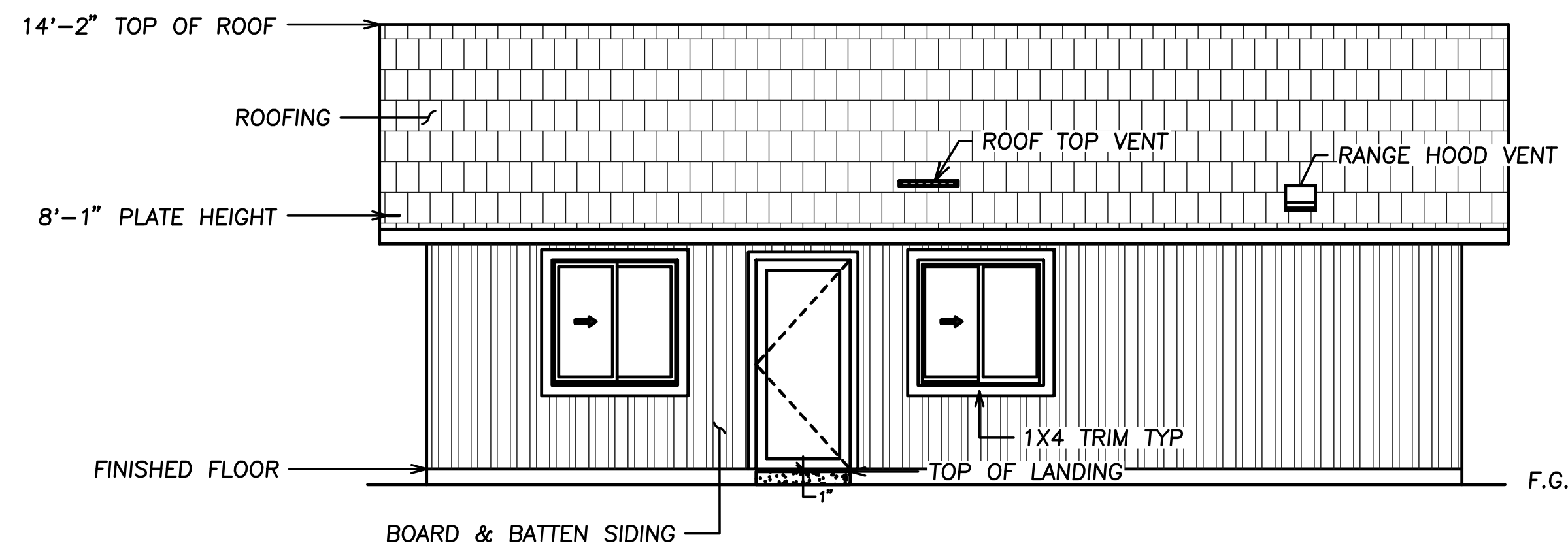
REVISIONS


PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	ELEVATION A
AGENCY	SJW REAP
DATE	7/23/2024

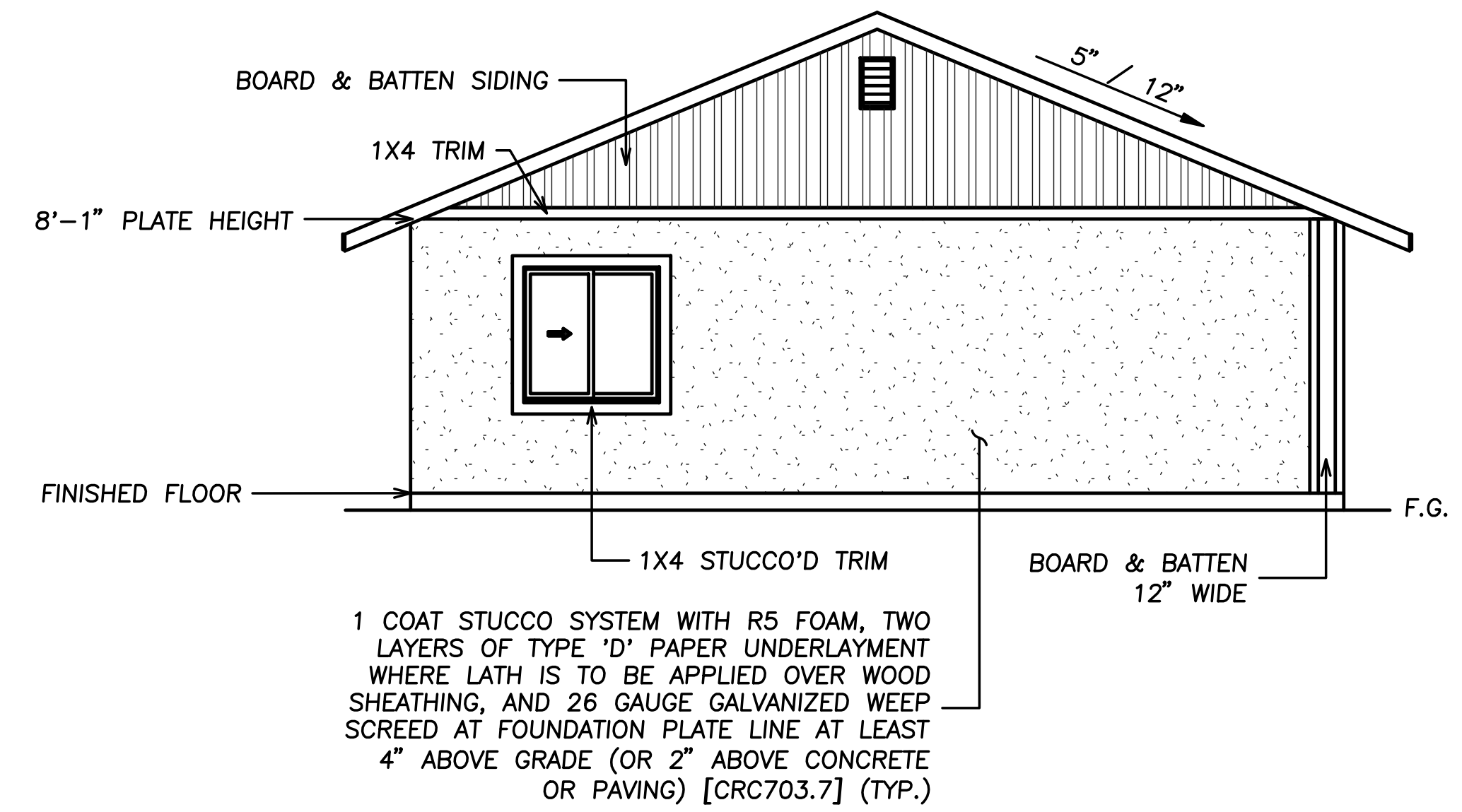
ADU SQFT  
**908**

DRAWING SCALE  
**1/4" = 1'**

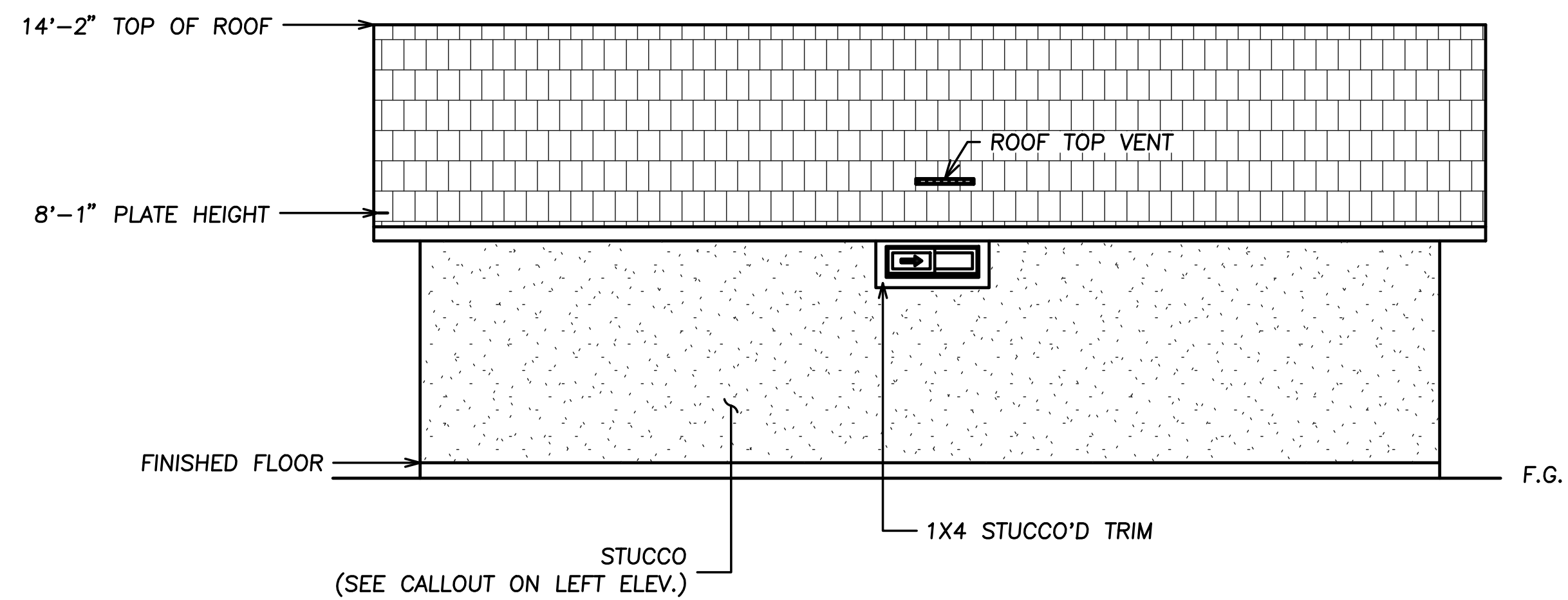
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**A3**



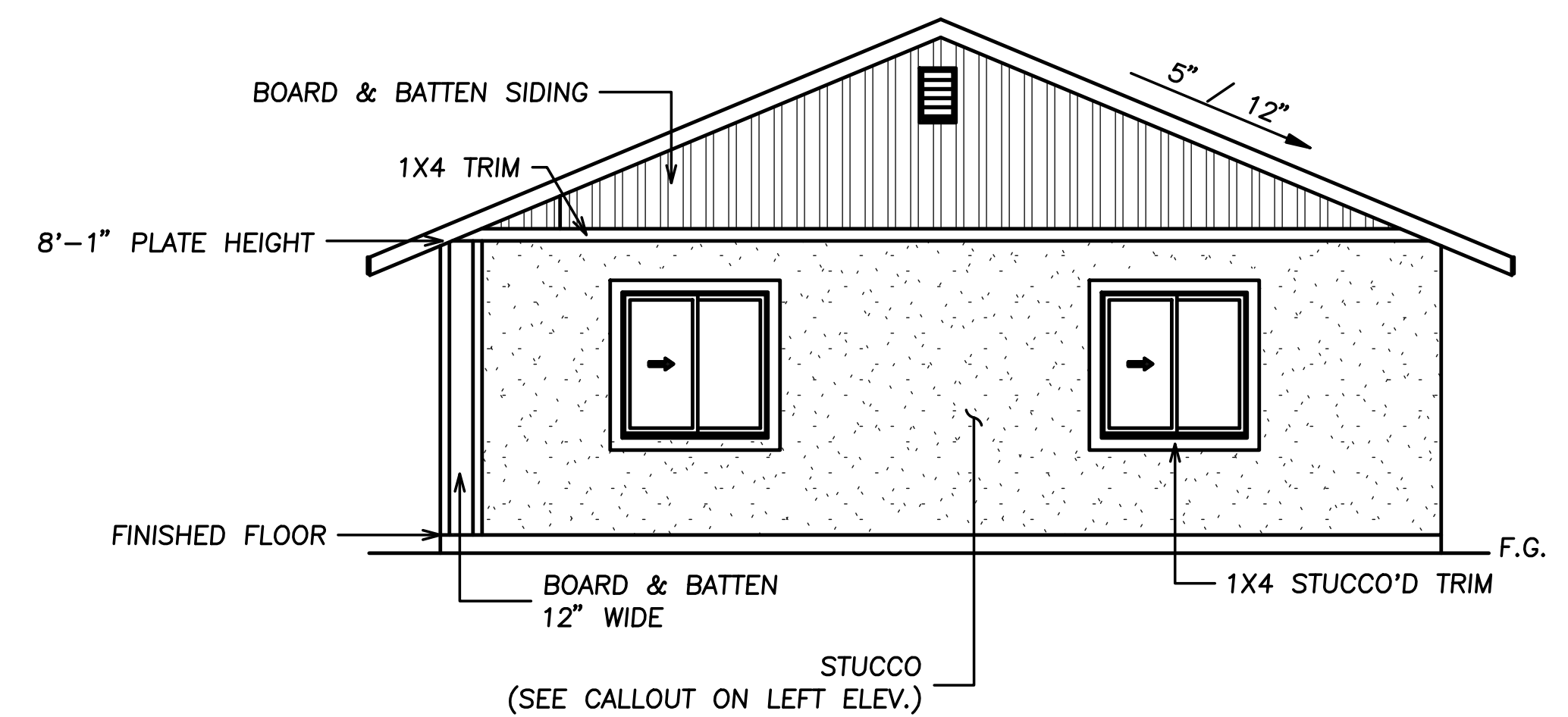
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

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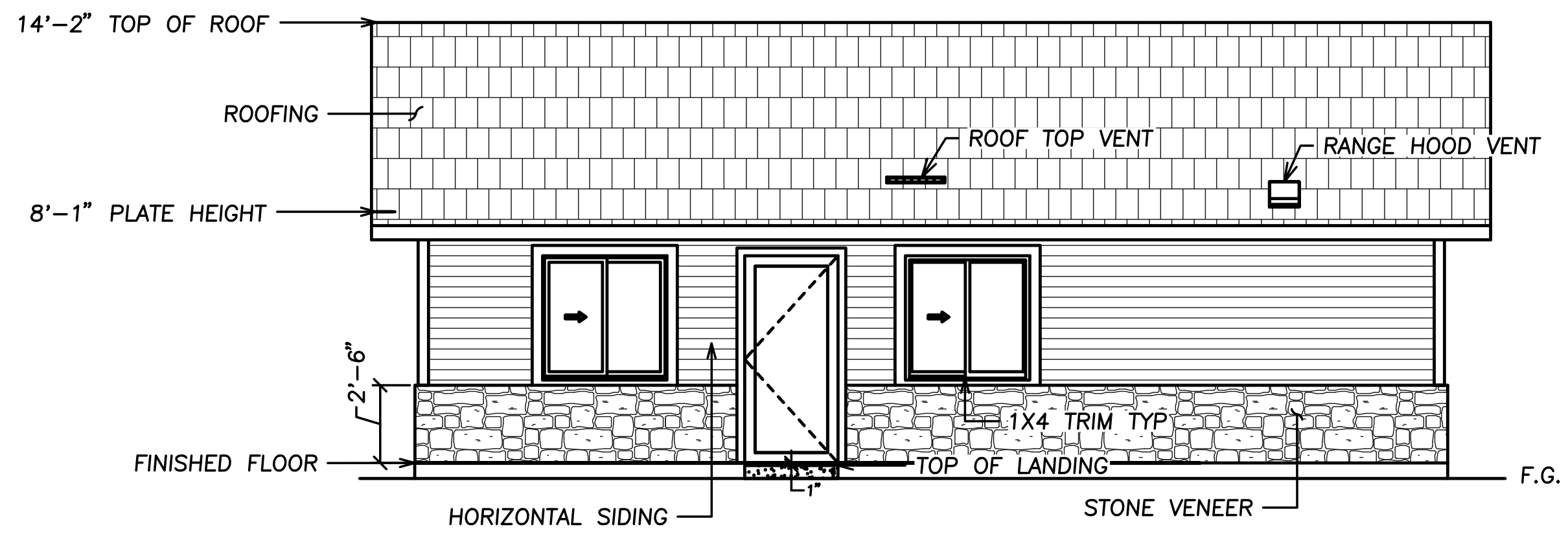
REVISIONS


PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	ELEVATION B
AGENCY	SJW REAP
DATE	7/23/2024

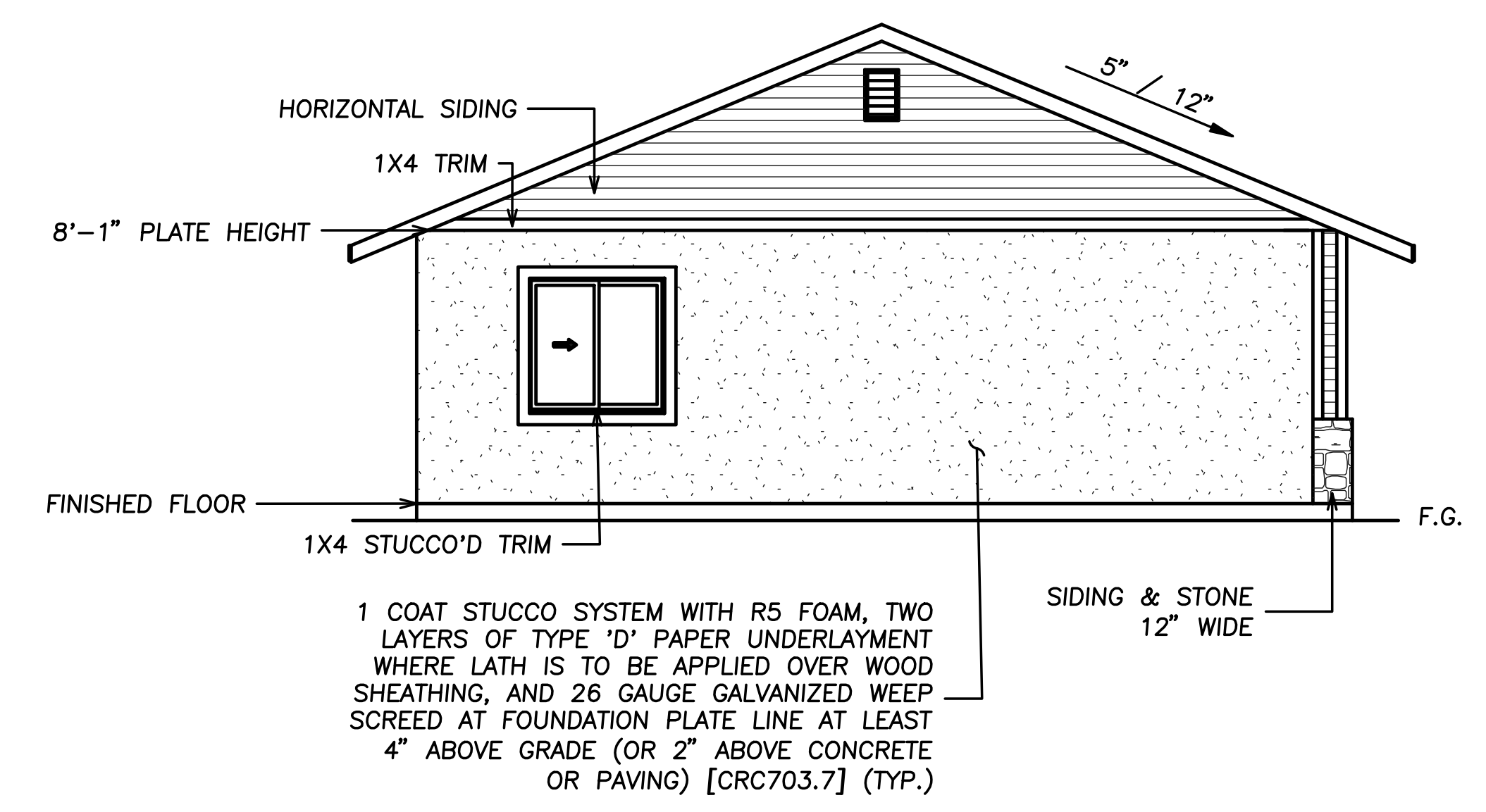
ADU SOFT  
**908**

DRAWING SCALE  
**1/4" = 1'**

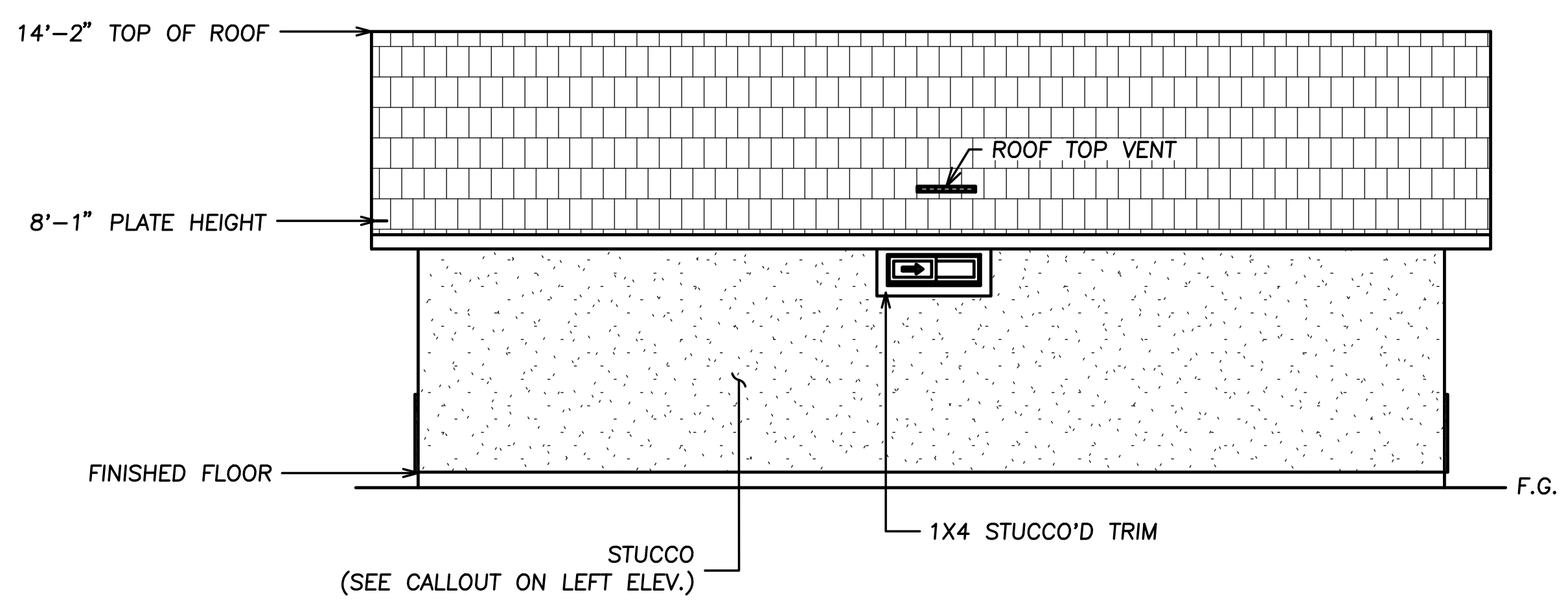
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**A4**



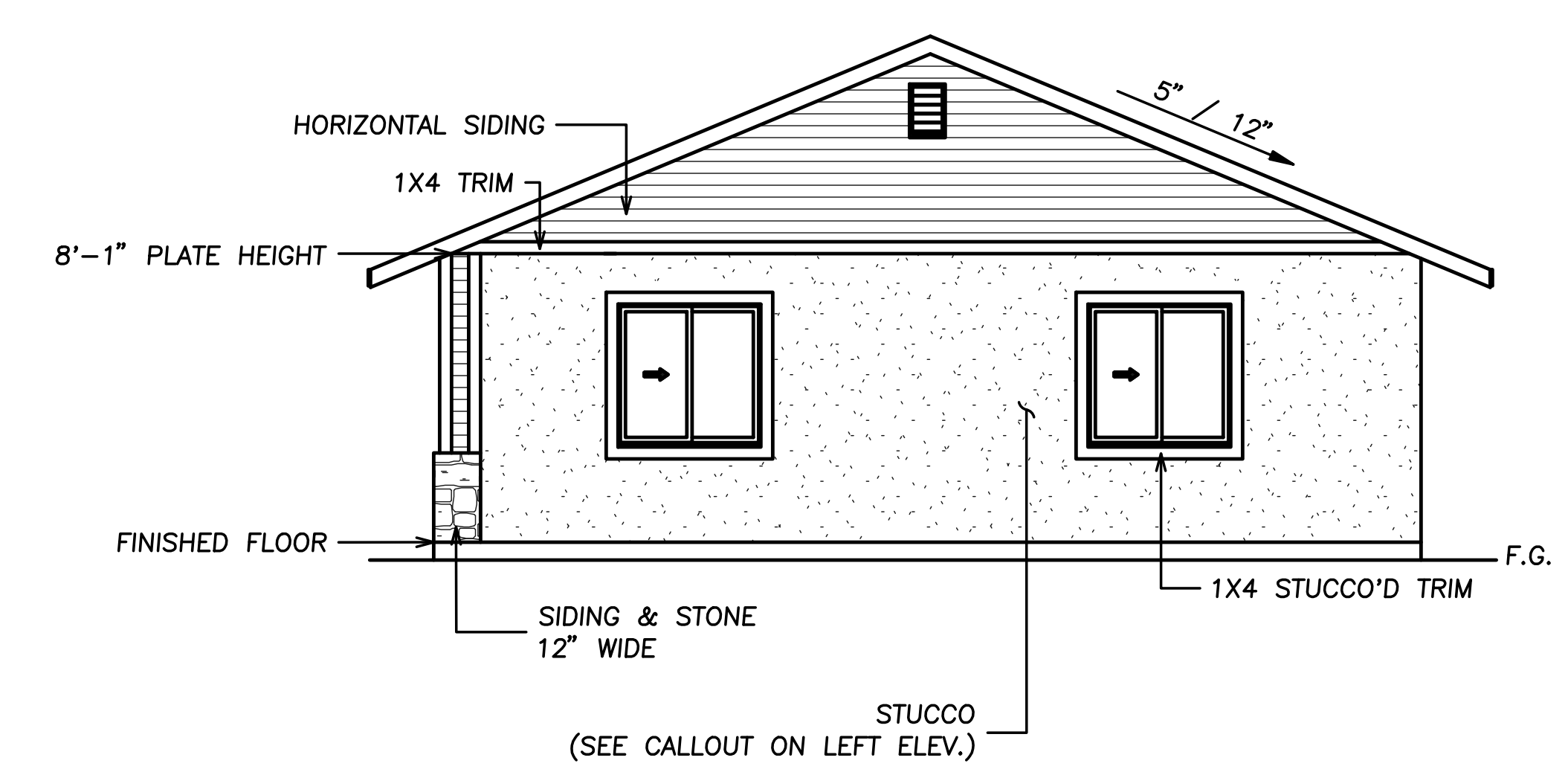
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	ELEVATION C
AGENCY	SJW REAP
DATE	7/23/2024

ADU SOFT  
**908**

DRAWING SCALE  
**1/4" = 1'**

SHEET  
**A5**





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REVISIONS

PROJECT TITLE: MADERA COUNTY - PRE-REVIEWED ADU PROGRAM  
 SHEET DESCRIPTION: ROOF FRAMING PLAN  
 AGENCY: SUB REAP  
 DATE: 7/23/2024

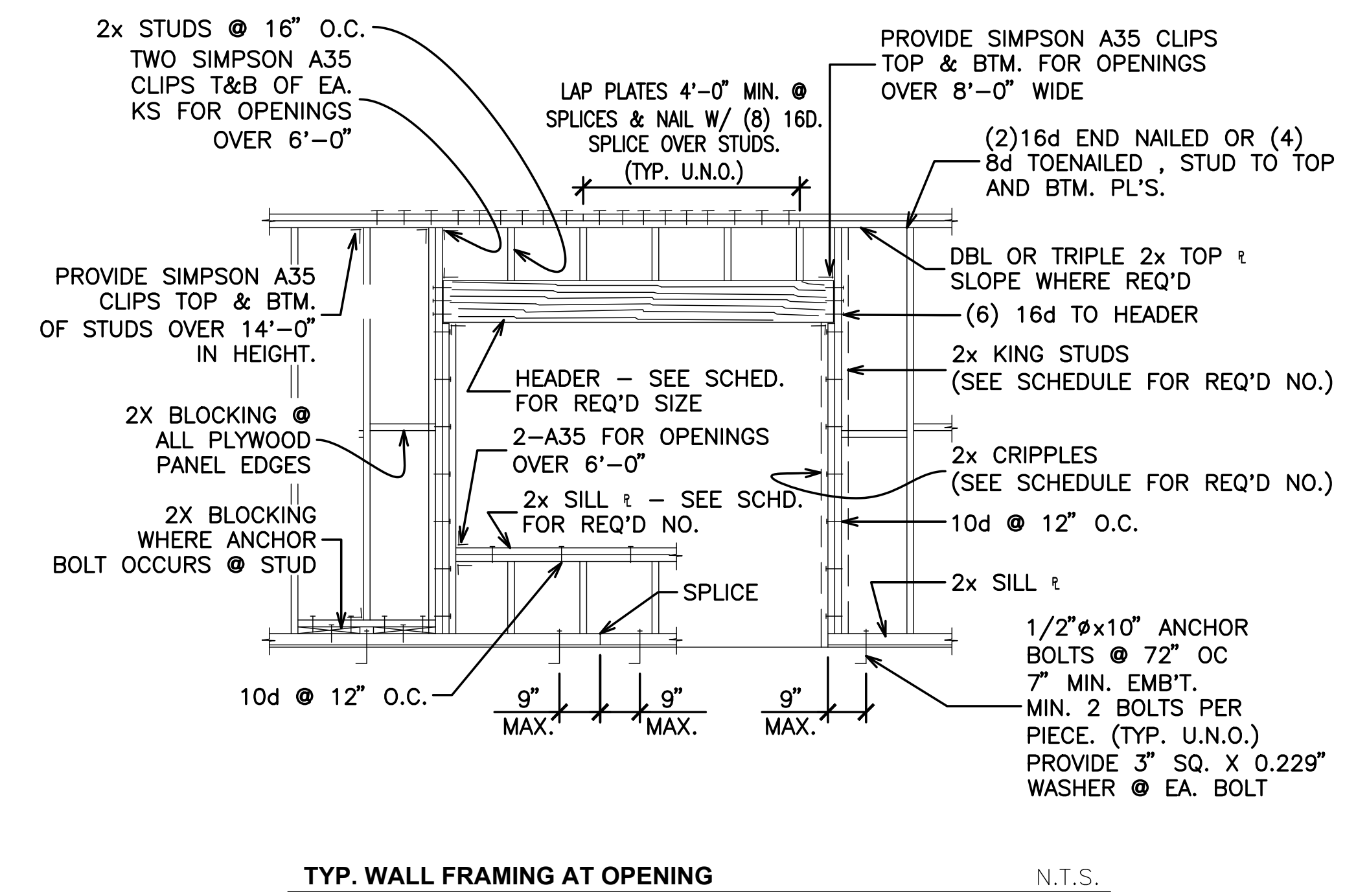
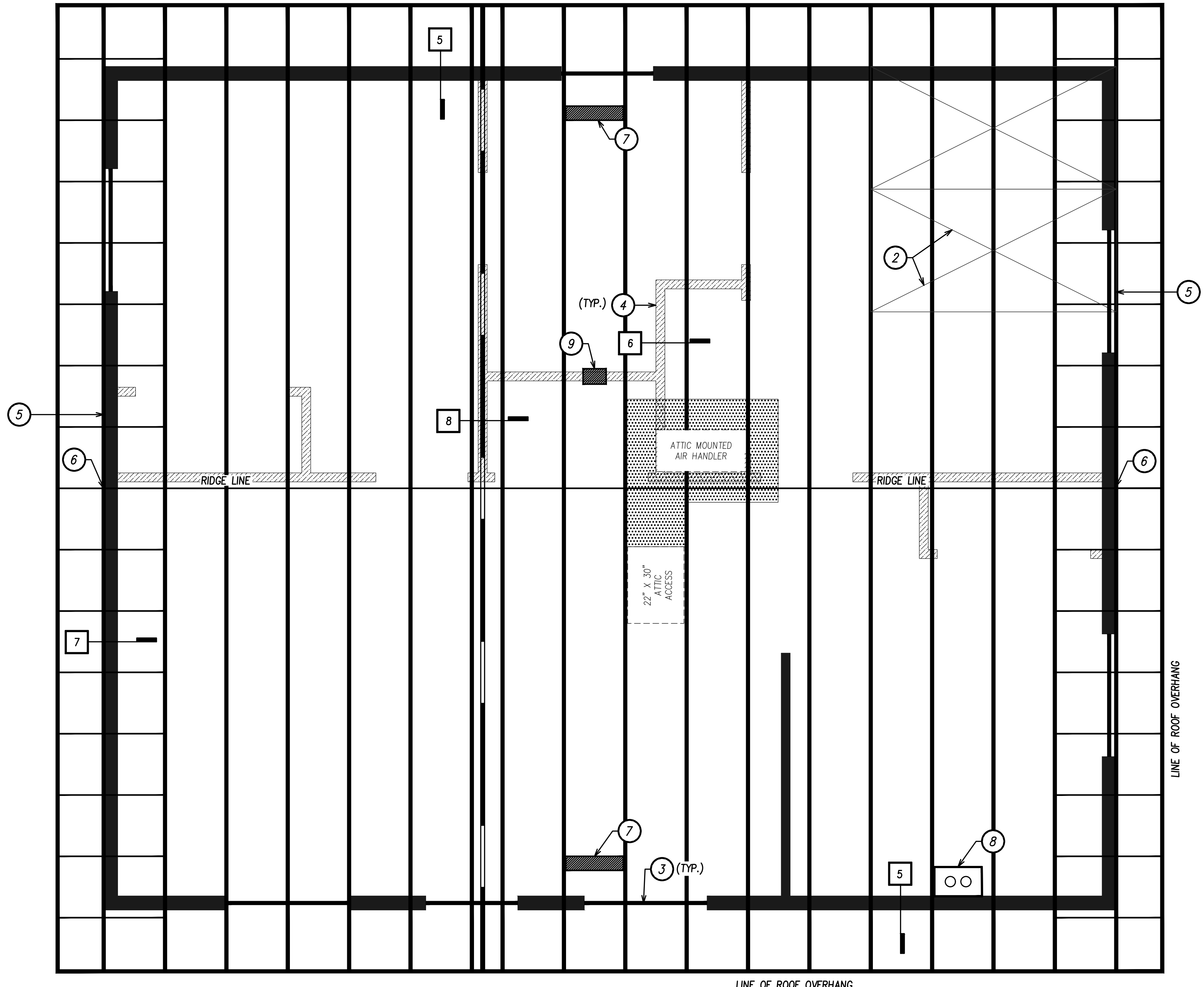
ADU SQFT: 908

DRAWING SCALE: 1/2" = 1'

SHEET: S2

**KEYNOTES**

- 1 PRE-MFR. TRUSSES @ 24" O.C.
- 2 15/32" APA RATED PLYWD OR OSB, P.I. 32/16, EDGE NAIL W/8D @ 6" O.C. & FIELD NAIL @ 6" O.C.
- 3 6X8 D.F. # 2
- 4 TOP OF NON-BEARING, NON-BRACED WALL SEE DET. 6
- 5 SEE DET. 3 FOR END WALL TRUSS SHEAR TRANSFER DESIGN REQUIREMENT
- 6 SEE A2 FOR GABLE END VENT LOCATION
- 7 LOCATION OF 5 1/2" x 22 1/2" EAVE VENT
- 8 LOCATION OF RANGE HOOD VENT
- 9 LOCATION OF DRYER VENT
- # FRAMING PLAN DETAIL FOUND ON SHEET S3



**NOTES**

1. TRUSS CALCULATIONS (FROM THE TRUSS MANUFACTURER) SHALL BE PROVIDED TO THE BUILDING DEPARTMENT PRIOR TO A REQUEST FOR ROOF AND SHEAR INSPECTION

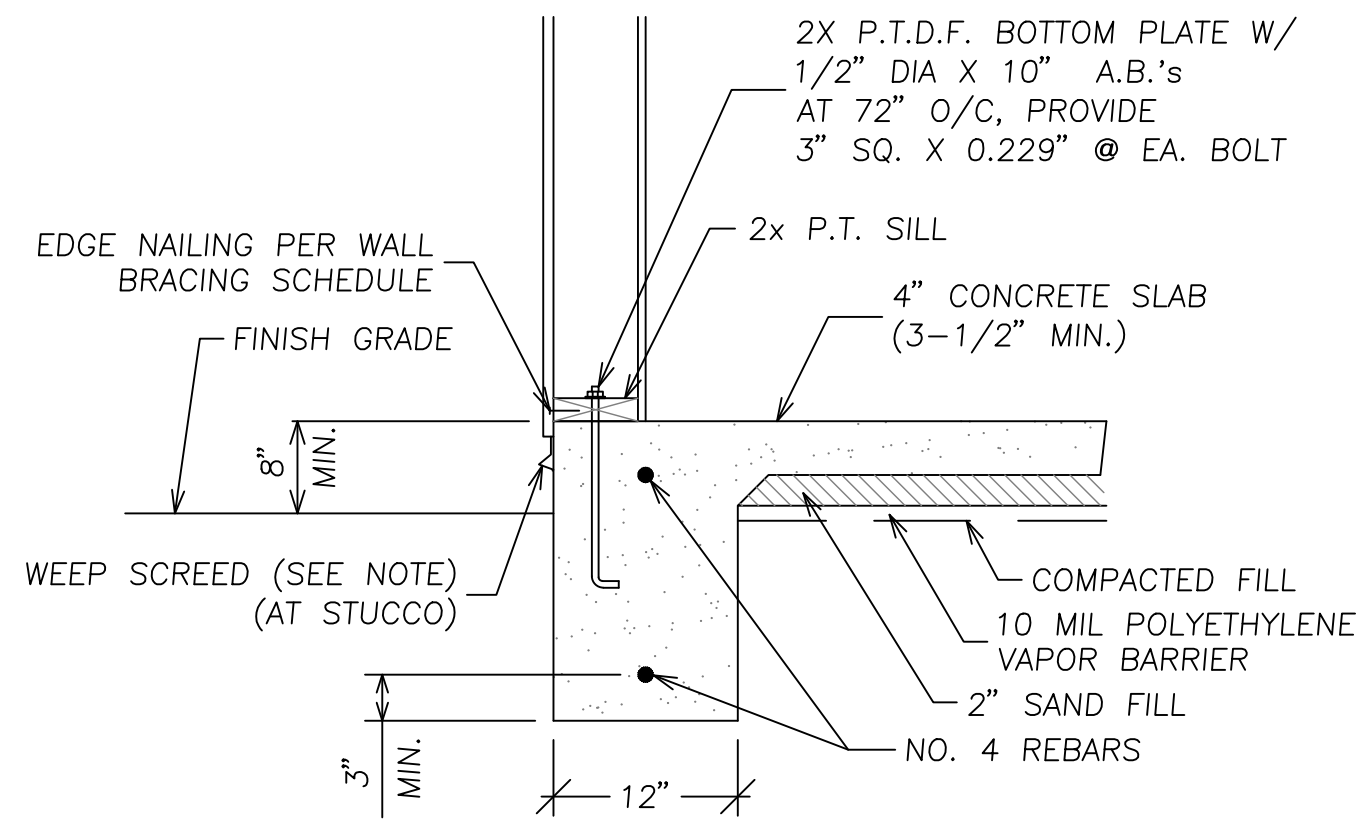
**ATTIC VENTILATION REQUIREMENTS**

$\frac{908 \text{ SQFT}}{300} \cdot 144 \text{ in/ft} = (436 \text{ in}^2)$

PROVIDE:  
 2 - 12" x 18" GABLE END VENT (140 in<sup>2</sup>) = (280 in<sup>2</sup>)  
 4 - 5 1/2" x 22 1/2" EAVE VENT (83 in<sup>2</sup>) = (166 in<sup>2</sup>)  
 TOTAL PROVIDED: = (446 in<sup>2</sup>)

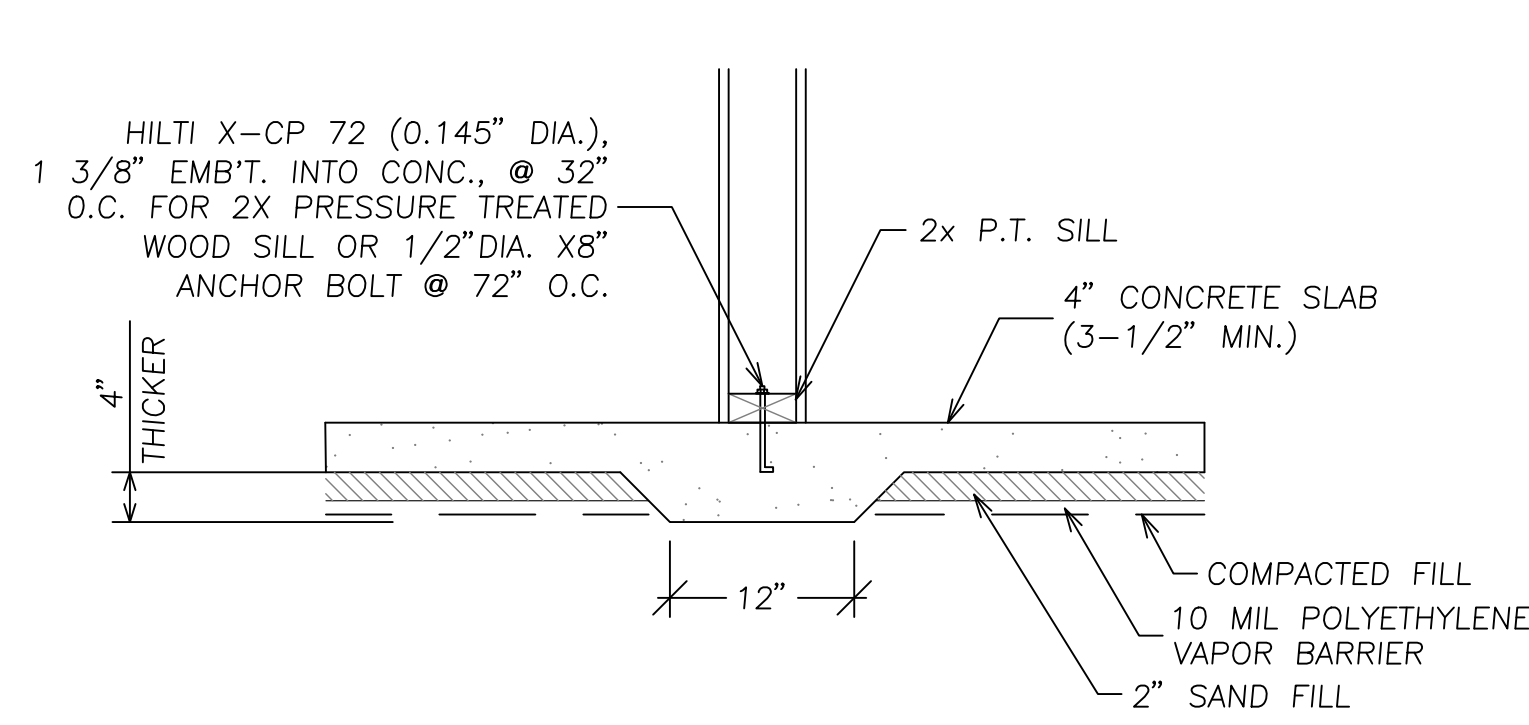
CLEAR SPAN OF OPENING	HEADER SIZE NOTE 1		NUMBER OF CRIPPLES		NUMBER OF KING STUDS		NUMBER OF SILL PLATES	
	BEARING WALL	NON-BRG WALL	BRG WALL	NON-BRG WALL	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR
UP TO 6'-0"	4 x 8	4 x 6	1	1	1	1	1	1

- NOTES:**
- 4x HEADER SIZE SHOWN IS FOR 2x4 STUD WALL. REVISE TO 6x FOR 2x6 STUD WALLS AND 8x FOR 2x8 STUD WALLS.
  - DETAILS AND MEMBER SIZES ARE TYPICAL UNLESS OTHERWISE NOTED OR DETAILED.
  - NOTES AND MEMBER SIZES SHOWN ON FRAMING PLANS SHALL TAKE PRECEDENCE OVER SCHEDULE.

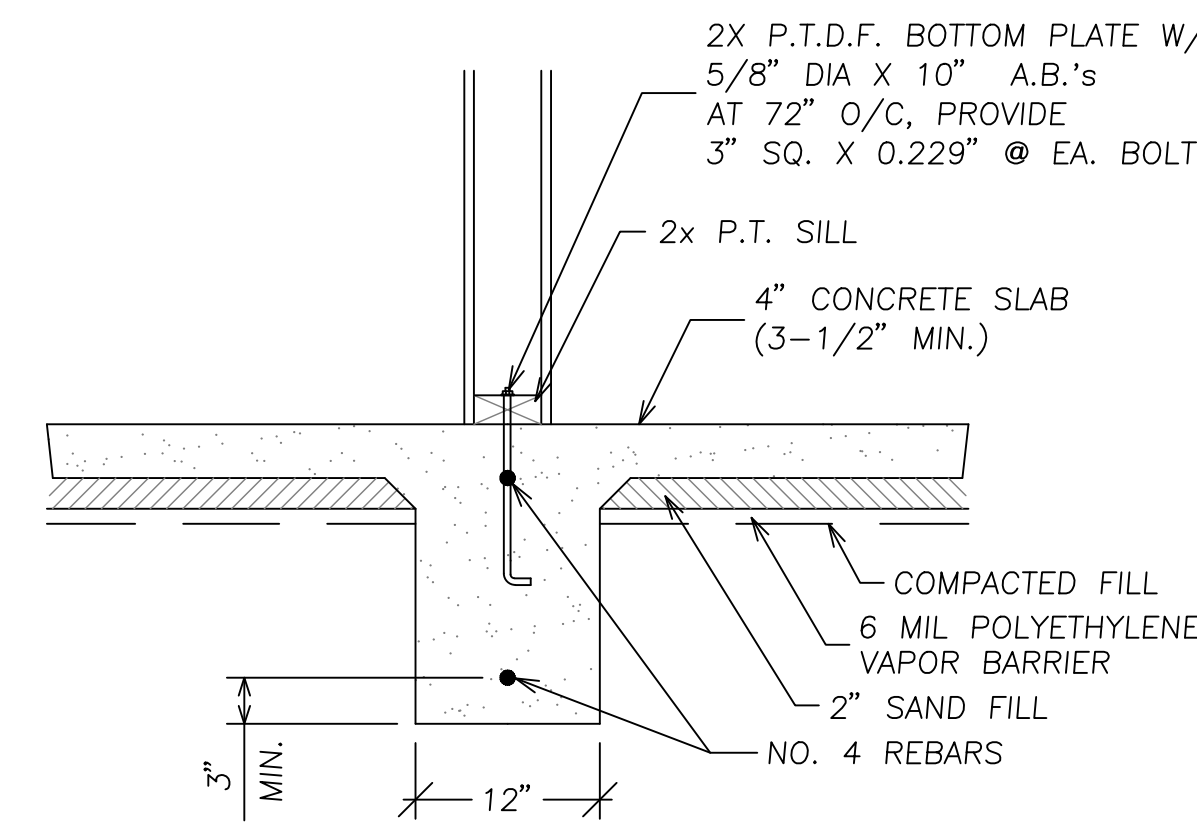


NOTE: STUCCO SHALL HAVE A MINIMUM CLEARANCE TO EARTH OF 4" AND 2" TO PAVED SURFACES WITH AN APPROVED WEEP SCREED

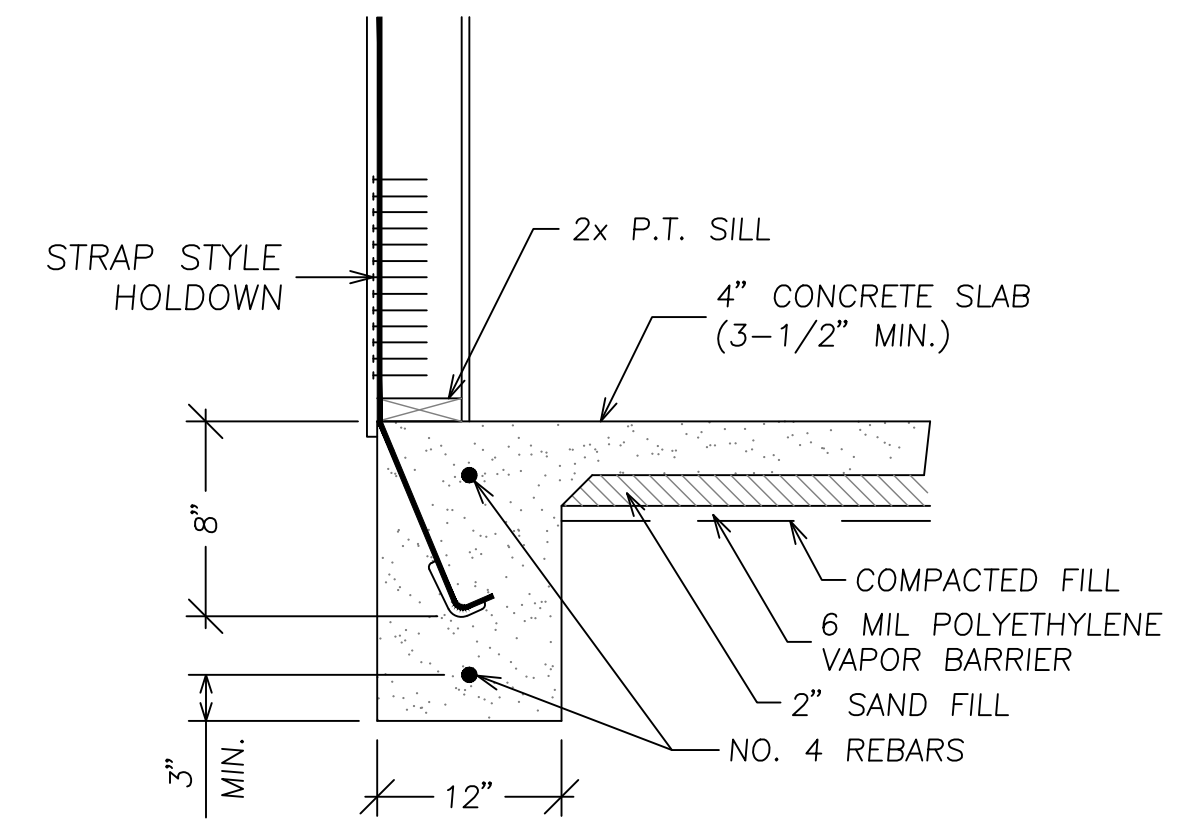
**1 EXTERIOR FOOTING**  
N.T.S.



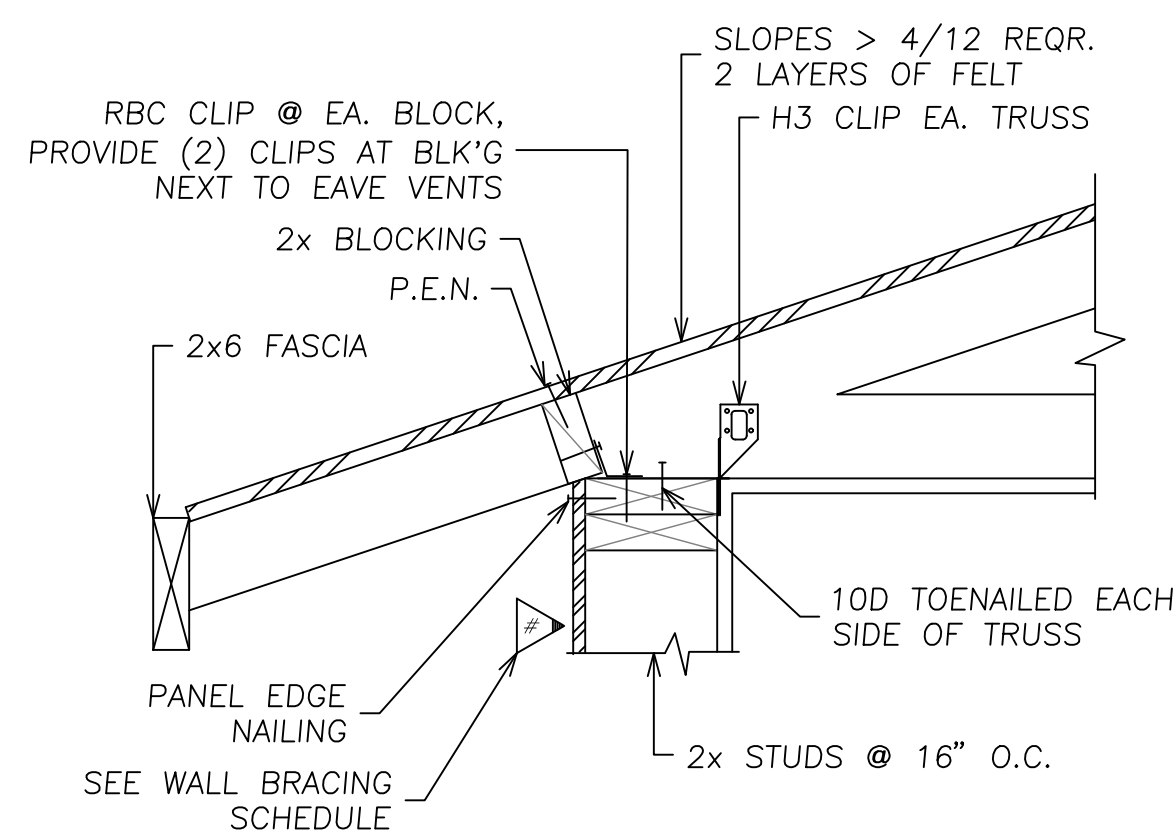
**2 NON-BEARING INTERIOR FOOTING**  
N.T.S.



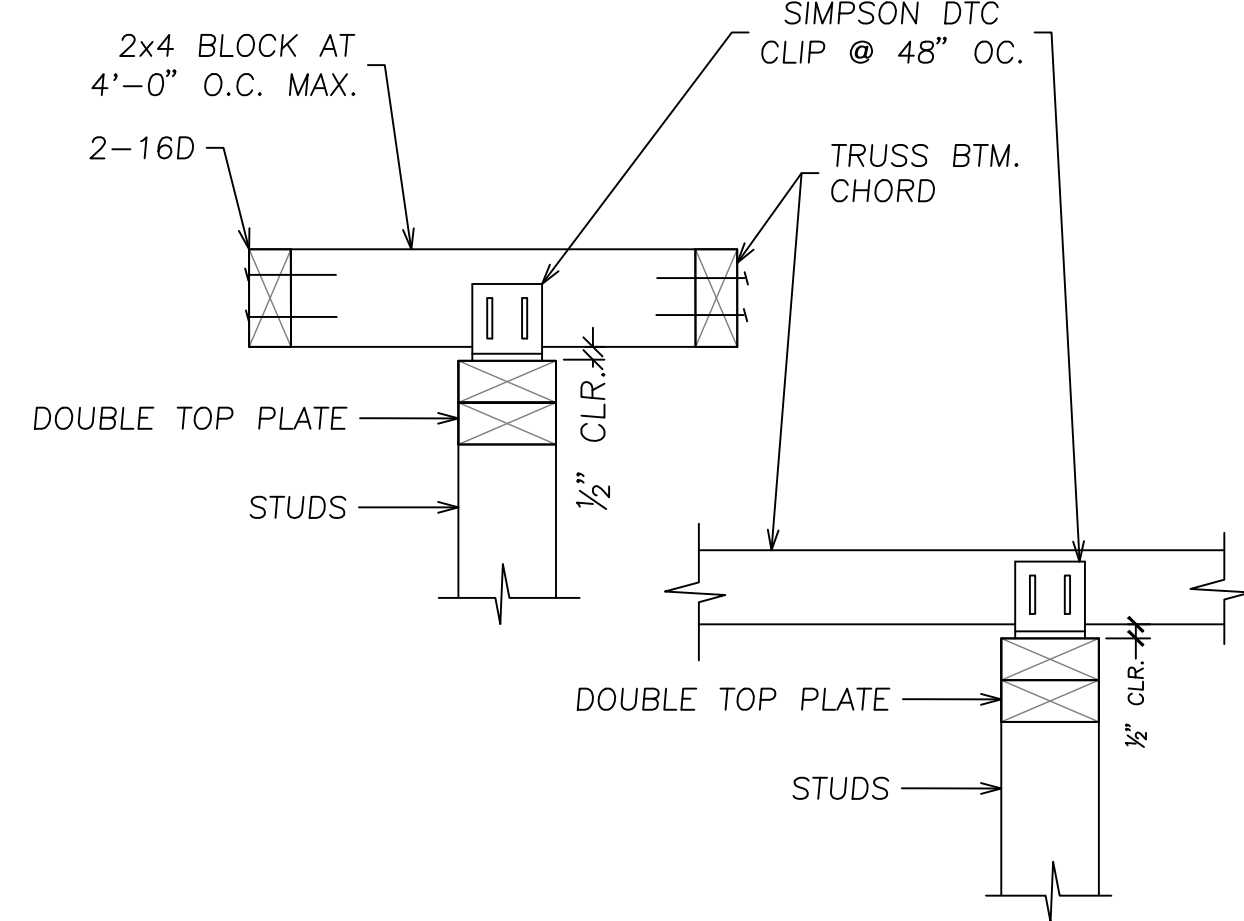
**3 BEARING INTERIOR FOOTING**  
N.T.S.



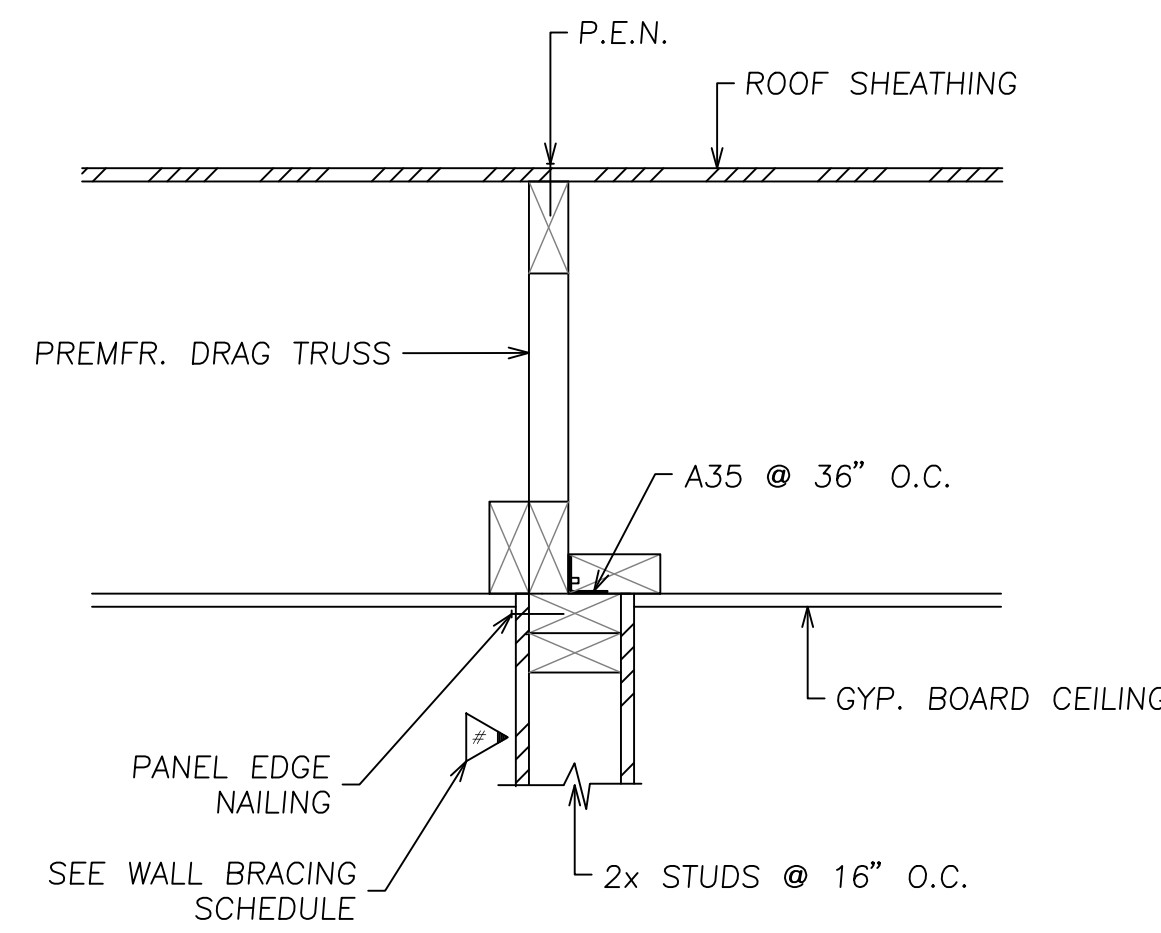
**4 LSTHD8 HOLDDOWN DETAIL**  
N.T.S.



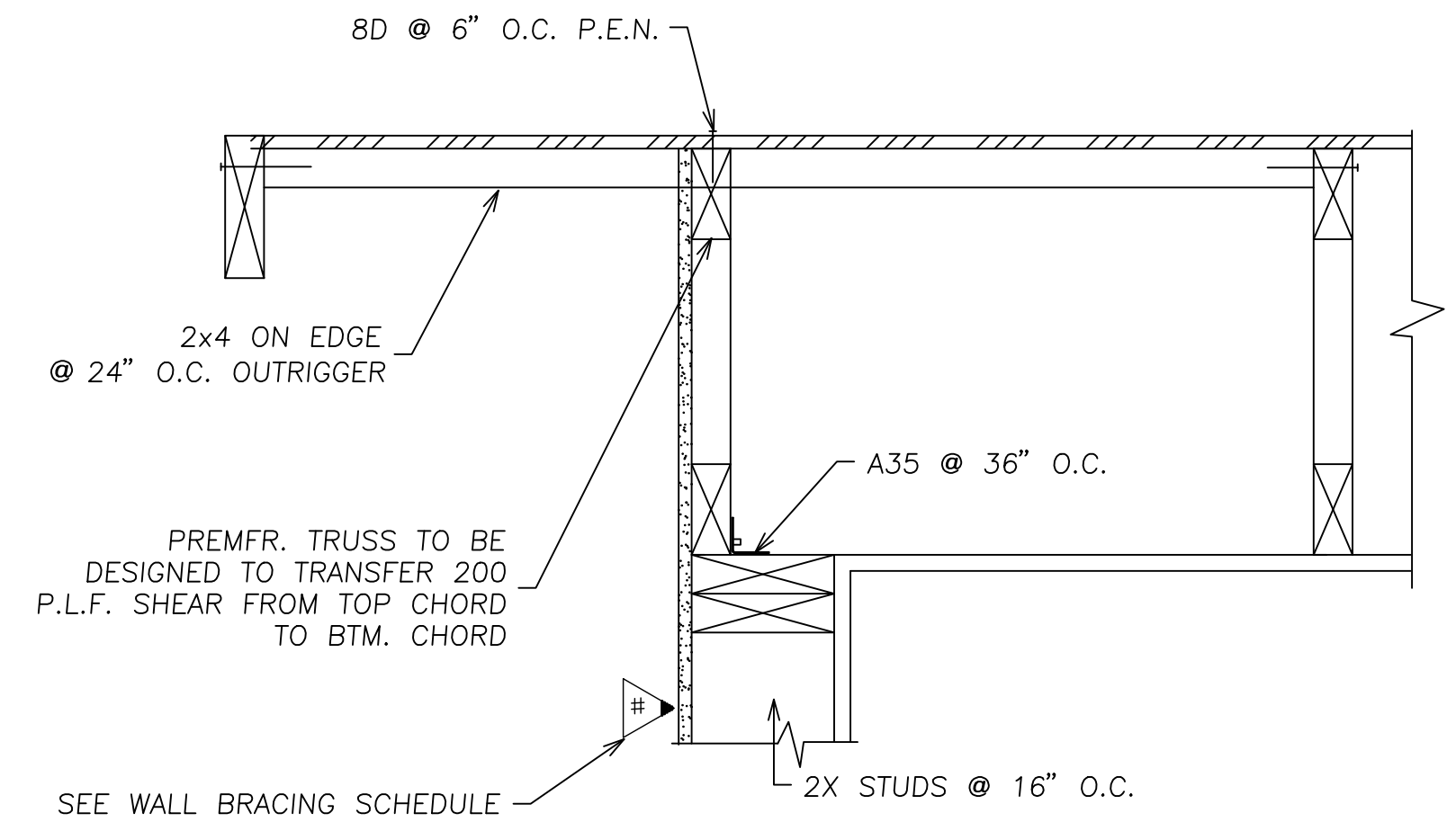
**5 EAVE DETAIL**  
N.T.S.



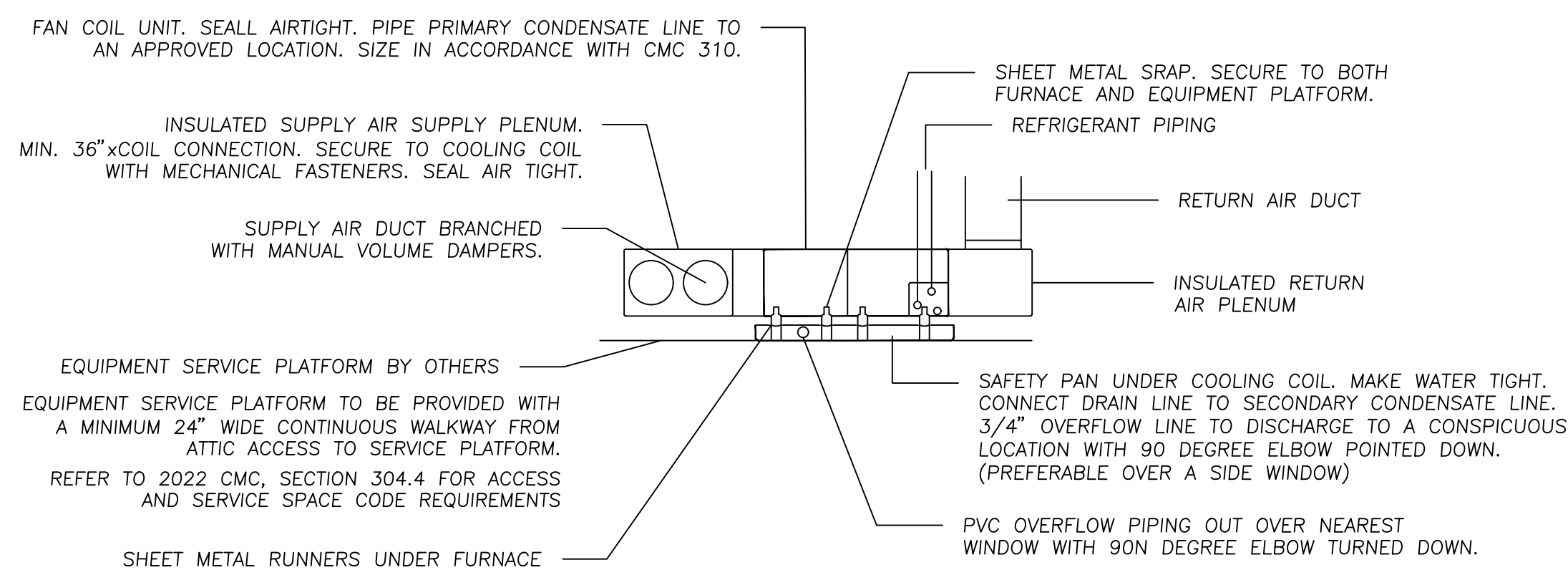
**6 NON-BRG., NON-BRACED WALL CONNECTION**  
N.T.S.



**8 DRAG TRUSS TO WALL CONNECTION**  
N.T.S.

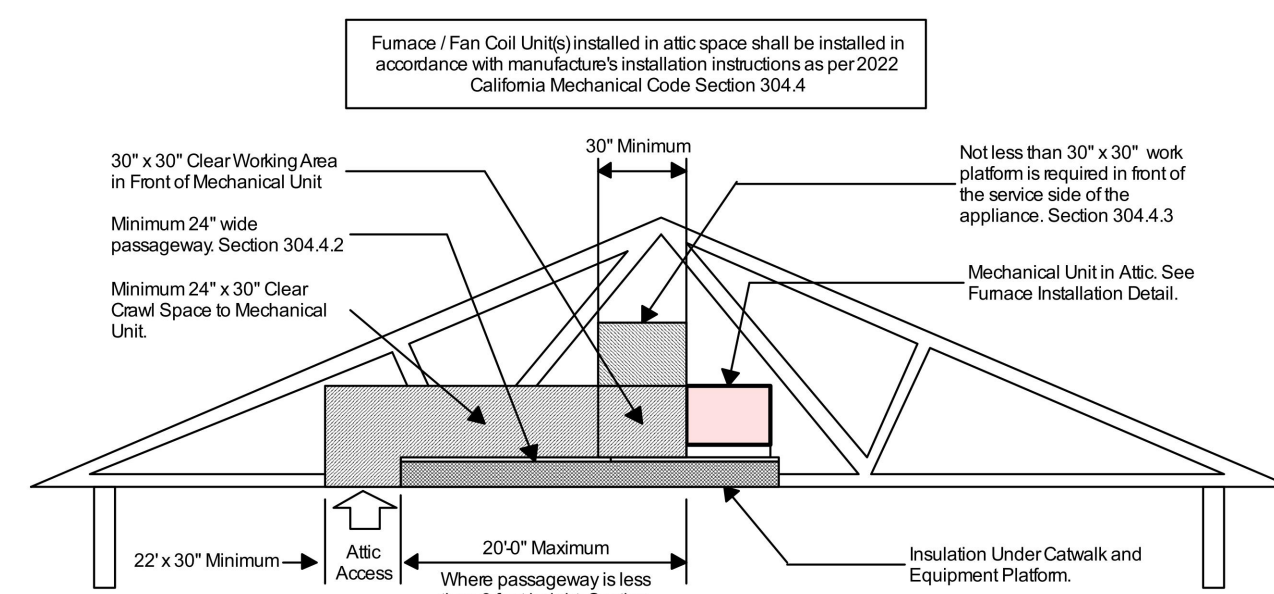


**6 GABLE END DETAIL**  
N.T.S.



NOTE: FURNACE/FAN COIL UNIT TO BE INSTALLED AND SECURELY FASTENED IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AS PER 2022 CALIFORNIA MECHANICAL CODE SECTION 303.4.

**8 FAN COIL INSTALLATION IN ATTIC**  
N.T.S.



ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE. [CA. ENERGY CODE 150.0(a)2]

2. FURNACE/FAN COIL UNIT(S) INSTALLED IN ATTIC SPACE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AS PER (CMC 304.4)

**9 ATTIC MOUNTED AIR HANDLER**  
N.T.S.

**APPLIANCE IN ATTICS REQUIREMENTS**

1. OPENING SHALL BE LOCATED IN A HALLWAY OR OTHER LOCATION WITH READY ACCESS (CRC 807.1)
2. AN ATTIC SPACE IN WHICH AN APPLIANCE IS INSTALLED SHALL BE ACCESSIBLE THROUGH AN OPENING AND PASSAGEWAY NOT LESS THAN THE LARGEST COMPONENT OF THE APPLIANCE, AND NOT LESS THAN 22 INCHES BY 30 INCHES (CMC 304.4)
3. ATTIC AREAS TO HAVE VERTICAL HEIGHT OF 30 INCHES OR GRATER OVER AN AREA OF NOT LESS THAN 30 SQUARE FEET. THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS. (CRC 807.1)
4. LENGTH OF PASSAGEWAY, WHERE THE HEIGHT OF THE PASSAGEWAY IS LESS THAN 6 FEET, THE DISTANCE FROM THE PASSAGEWAY ACCESS TO THE APPLIANCE SHALL NOT EXCEED 20 FEET MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY. (CMC 304.4.1)
5. WIDTH OF PASSAGEWAY, THE PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID FLOORING NOT LESS THAN 24 INCHES WIDE FROM THE ENTRANCE OPENING TO THE APPLIANCE. (CMC 304.4.2)
6. WORK PLATFORM, A LEVEL WORKING PLATFORM NOT LESS THAN 30 INCHES BY 30 INCHES SHALL BE PROVIDED IN FRONT OF THE SERVICE SIDE OF THE APPLIANCE. EXCEPTION: A WORKING PLATFORM NEED NOT BE PROVIDED WHERE THE FURNACE IS CAPABLE OF BEING SERVICED FROM THE REQUIRED ACCESS OPENING. THE FURNACE SERVICE SIDE SHALL NOT EXCEED 12 INCHES FROM THE ACCESS OPENING. (CMC304.4.3)
7. LIGHTING AND CONVENIENCE OUTLET, A PERMANENT 120 V RECEPTACLE OUTLET AND A LUMINAIRE SHALL BE INSTALLED NEAR THE APPLIANCE. THE SWITCH CONTROLLING THE LUMINAIRE SHALL BE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY. (CMC 304.4.4)

**7 FIRE RATED GABLE END**  
N.T.S.

DISCLAIMER: THE USER AGREES TO BY USING THESE STANDARD PLANS, THE USER RELEASES THE COUNTY OF MADERA, FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.



**REVISIONS**

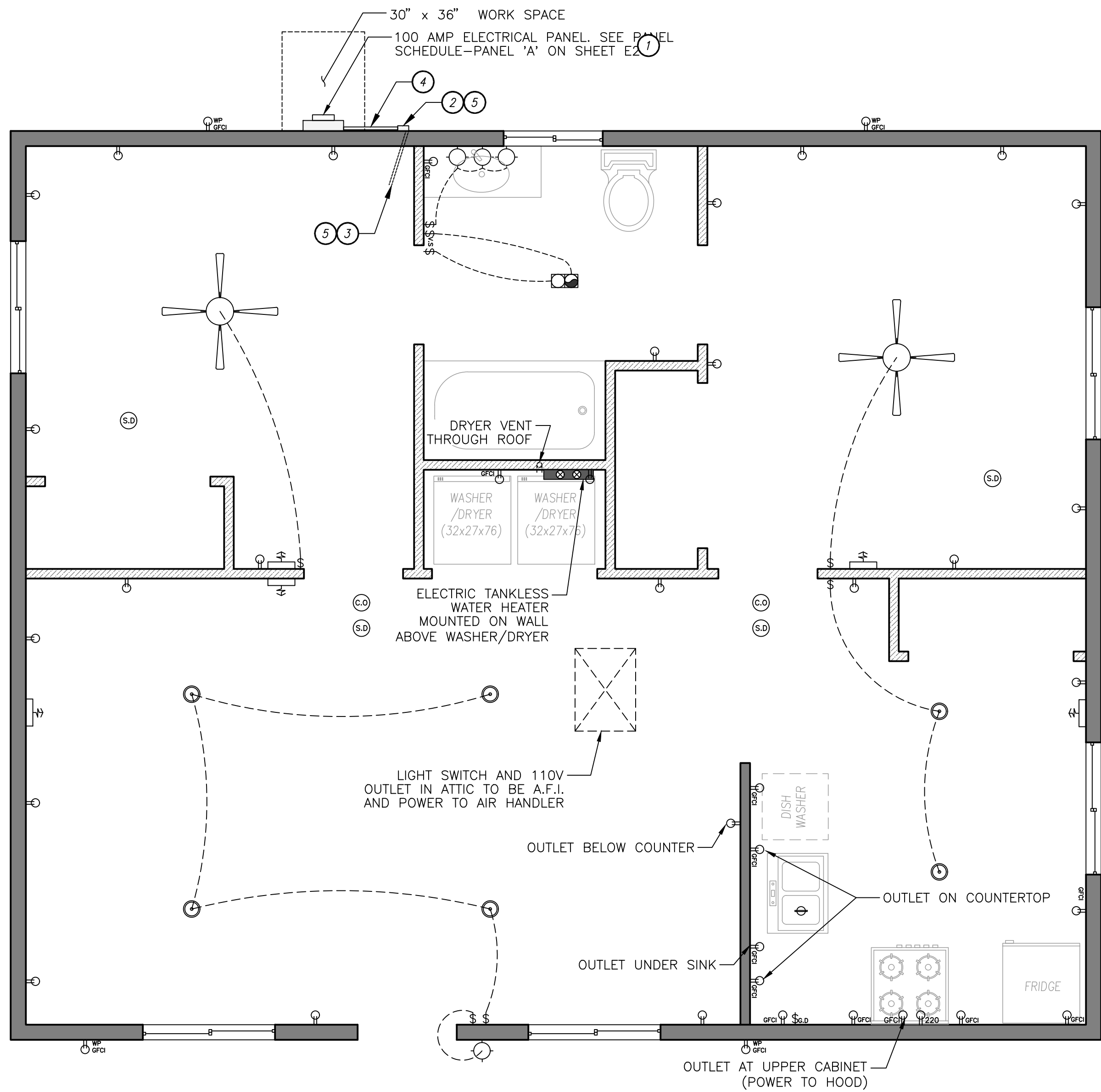
NO.	DESCRIPTION	DATE

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	DETAILS
AGENCY	SJW REAP
DATE	7/23/2024

ADU SOFT  
**908**

DRAWING SCALE  
-

SHEET  
**S3**



120/240V 1PH 3 WIRE 100 AMP

MLO

NEMA-1 FLUSH MOUNT 30 CK

10KAIC

**PANEL SCHEDULE -PANEL 'A'**

#498

DESCRIPTION	CKT	OCPD	PHASE A	PHASE B	OCPD	CKT	DESCRIPTION
RECEPTACLES	1	20 AMP	1800	1300	15 AMP	2	LIGHTING
WASHER	3	20 AMP	1800	2700	30 AMP	4	DRYER
RANGE	5	40 AMP	3700	2700	30 AMP	6	DRYER
RANGE	7	40 AMP	3700	1350	20 AMP	8	KITCHEN APPLIANCE
KITCHEN APPLIANCE	9	20 AMP	1350	1800	20 AMP	10	DISH WASHER
RECEPTACLES	11	20 AMP	1800	1800	20 AMP	12	DISPOSAL
EF #1 AND EF #2	13	20 AMP	600	4000	50 AMP	14	COOK TOP
	15			4000	50 AMP	16	COOK TOP
WATER HEATER	17	30 AMP	2400	2400	30 AMP	18	FURNACE
WATER HEATER	19	30 AMP	2400	2400	30 AMP	20	FURNACE
SPACE	21					22	SPACE
SPACE	23					24	SPACE
SPACE	25					26	SPACE
SPACE	27					28	SPACE
SPACE	29					30	SPACE
SPACE	31					32	SPACE
SPACE	33					34	SPACE
SPACE	35					36	SPACE
SPACE	37					38	SPACE
SPACE	39					40	SPACE
SPACE	41					42	SPACE

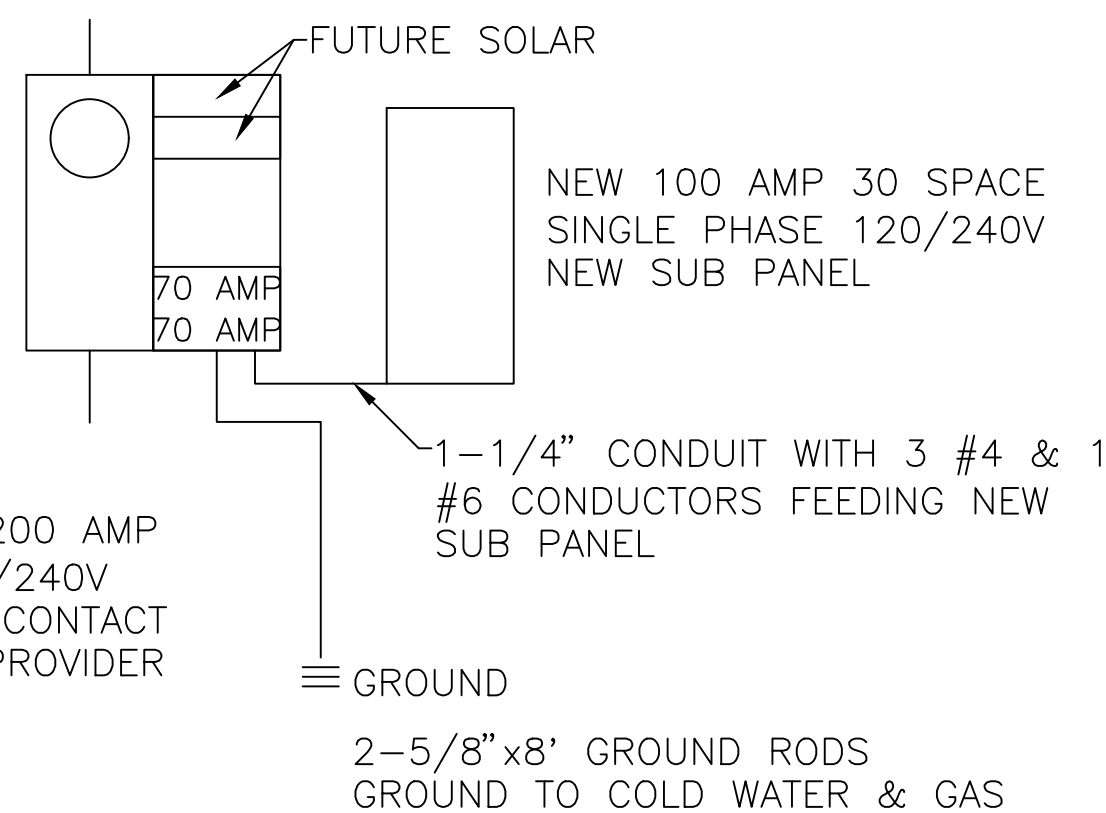
TOTAL VA LOAD	14150	11650
25% LCU/IML	3538	2913
TOTAL LOAD	17688	14563
TOTAL LOAD AMPS	64	53

**ELECTRICAL LEGEND**

DUPLEX OUTLET	FAN AND LIGHT COMBINATION (HE LIGHT)
GFCI OUTLET	HIGH EFFICACY LIGHT FIXTURE
WEATHERPROOF GFCI OUTLET	HIGH EFFICACY RECESSED LIGHT
WALL SWITCH	GARBAGE DISPOSAL
GARBAGE DISPOSAL SWITCH	HVAC AIR DUCT LOCATION
VACANCY SENSOR	FAN & LIGHT COMBO
SMOKE DETECTOR	
CARBON MONOXIDE ALARM	

**SUB-PANEL & SWITCH GEAR FOR FUTURE BATTERY STORAGE**

N.T.S.



CHANGE SERVICE TO 200 AMP 1-SINGLE PHASE 120/240V SOLAR READY PANEL. CONTACT YOUR LOCAL UTILITY PROVIDER

**SOLAR READY KEYNOTES**

NOTE: SOLAR READY NOTES SHOWN TO DEMONSTRATE PLAN IS SOLAR READY. SEPARATE PERMIT AND FEES ARE REQUIRED. IF REQUIRED, CONTACT A PV/SOLAR PROVIDER FOR PLANS AND PERMITS.

- THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"
- APPROVED MINIMUM 4-INCH SQUARE ELECTRICAL JUNCTION BOX LOCATED WITHIN 72 INCHES HORIZONTALLY AND 12 INCHES VERTICAL OF MAIN ELECTRICAL SERVICE PANEL
- MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT READILY ACCESSIBLE ATTIC LOCATION WITH PROXIMITY TO SOLAR ZONE AREA AND TERMINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX
- MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX AND TERMINATING AT THE MAIN ELECTRICAL SERVICE PANEL
- ELECTRICAL JUNCTION BOX AND SEGMENT OF METALLIC RACEWAY IN THE ATTIC SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"

**CLOTHES DRYER VENT NOTES**

- 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
- SMALL APPLIANCE CIRCUIT LOAD  
IN EACH DWELLING UNIT, THE LOAD SHALL BE CALCULATED AT 1500 VOLT-AMPERES FOR EACH 2-WIRE SMALL APPLIANCE BRANCH CIRCUIT AS COVERED BY 2010.11(C)(1). WHERE THE LOAD IS SUBDIVIDED THROUGH TWO OR MORE FEEDERS, THE CALCULATED LOAD FOR EACH SHALL INCLUDE NOT LESS THAN 1500 VOLT-AMPERES FOR EACH 2-WIRE SMALL APPLIANCE BRANCH CIRCUIT. THESE LOADS SHALL BE PERMITTED TO BE INCLUDED WITH THE GENERAL LIGHTING LOAD AND SUBJECT TO THE DEMAND FACTORS PROVIDED IN TABLE 220.42.
- LAUNDRY CIRCUIT LOAD  
A LOAD OF NOT LESS THAN 1500 VOLT-AMPERES SHALL IN INCLUDED FOR EACH 2-WIRE LAUNDRY BRANCH CIRCUIT INSTALLED AS COVERED BY 2010.11(C)(2). THIS LOAD SHALL BE SUBJECT TO THE DEMAND FACTORS PROVIDED IN TABLE 220.42. [CEC 220.43(B)]
- APPLIANCE LOAD-DWELLING UNITS  
IT SHALL BE PERMISSIBLE TO APPLY A DEMAND FACTOR OF 75 PERCENT TO THE NAMEPLATE RATING LOAD OF FOUR OR MORE APPLIANCES RATED 1/4 HP OR GREATER, OR 500 WATTS OR GREATER, THAT ARE FASTENED IN PLACE AND THAT ARE SERVED BY THE SAME FEEDER OR SERVICE IN A ONE-FAMILY, TWO-FAMILY, OR MULTIFAMILY DWELLING. THIS DEMAND FACTOR SHALL NOT APPLY TO: HOUSEHOLD ELECTRIC COOKING EQUIPMENT THAT IS FASTENED IN PLACE, CLOTHES DRYERS, SPACE HEATING EQUIPMENT, AND AIR-CONDITIONING EQUIPMENT. [CEC 220.53]
- ELECTRIC CLOTHES DRYER  
THE LOAD FOR HOUSEHOLD ELECTRIC CLOTHES DRYERS IN A DWELLING UNIT SHALL BE EITHER 5,000 WATTS OR THE NAMEPLATE RATING, WHICHEVER IS LARGER, FOR EACH DRYER SERVED. THE USE OF THE DEMAND FACTORS IN TABLE 220.54 SHALL BE PERMITTED. WHERE TWO OR MORE SINGLE-PHASE DRYERS ARE SUPPLIED BY A 3-PHASE, 4-WIRE FEEDER OR SERVICE, THE TOTAL LOAD SHALL BE CALCULATED ON THE BASIS OF TWICE THE MAX. NUMBER CONNECTED BETWEEN ANY TWO PHASES. KILOVOLT-AMPERES SHALL BE CONSIDERED EQUIVALENT TO KILOWATTS FOR LOADS CALCULATED IN THIS SECTION.

**OUTLET NOTES**

- RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLET. [CEC 210.52(A)(1)]
- GFCI OUTLETS. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OUTLETS ARE REQUIRED IN BATHROOMS, AT KITCHEN COUNTERTOPS, AT LAUNDRY AND WET BAR SINKS, IN GARAGES, IN CRAWLSPACES, IN UNFINISHED BASEMENTS, AND OUTDOORS. (CEC 210.8)
- AFCI OUTLETS. ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)
- RECEPTACLE OUTLETS SHALL BE LOCATED IN ONE OR MORE OF THE FOLLOWING:
  - ON OR ABOVE COUNTERTOP OR WORK SURFACES: ON OR ABOVE, BUT NOT MORE THAN 20 INCHES ABOVE, THE COUNTERTOP OR WORK SURFACE.
  - IN COUNTERTOP OR WORK SURFACES: RECEPTACLE OUTLET ASSEMBLIES LISTED FOR USE IN COUNTERTOPS OR WORK SURFACES SHALL BE PERMITTED TO BE INSTALLED IN COUNTERTOPS OR WORK SURFACES.
  - BELOW COUNTERTOP OR WORK SURFACES: NOT MORE THAN 12 INCHES BELOW THE COUNTERTOP OR WORK SURFACE. RECEPTACLES INSTALLED BELOW A COUNTERTOP OR WORK SURFACE SHALL NOT BE LOCATED WHERE THE COUNTERTOP OR WORK SURFACE EXTENDS MORE THAN 6 INCHES BEYOND ITS SUPPORT BASE. [CEC 210.52(C)(3)]
- BATHROOMS  
AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, LOCATED ON THE COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET. IN NO CASE SHALL THE RECEPTACLE BE LOCATED MORE THAN 12 INCHES BELOW THE TOP OF THE BASIN OR BASIN COUNTERTOP RECEPTACLE OUTLET ASSEMBLIES LISTED FOR USE IN THE COUNTERTOPS SHALL BE PERMITTED TO BE INSTALLED IN THE COUNTERTOP. [CEC 210.52(D)]
- OUTDOOR OUTLETS  
ALL EXTERIOR RECEPTACLES SHALL BE WP/GFCI PROTECTED. FOR A ONE-FAMILY DWELLING THAT IS AT GRADE LEVEL, AT LEAST ONE RECEPTACLE OUTLET READILY ACCESSIBLE FROM GRADE AND NOT MORE THAN 6 1/2 FEET ABOVE GRADE LEVEL SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING. [210.52(E)(1)]
- LAUNDRY AREAS  
IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT. [210.52(F)]
- GFCI OUTLETS. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OUTLETS ARE REQUIRED IN BATHROOMS, AT KITCHEN COUNTERTOPS, AT LAUNDRY AND WET BAR SINKS, IN GARAGES, IN CRAWLSPACES, IN UNFINISHED BASEMENTS, AND OUTDOORS. (CEC 210.8)
- AFCI OUTLETS. ARC FAULT CIRCUIT INTERRUPTERS (AFCI) PROTECTION IS REQUIRED THROUGHOUT ALL 15 AND 20-AMP 120V CIRCUITRY THAT IS NOT GFCI PROTECTED. (CEC 210.12)

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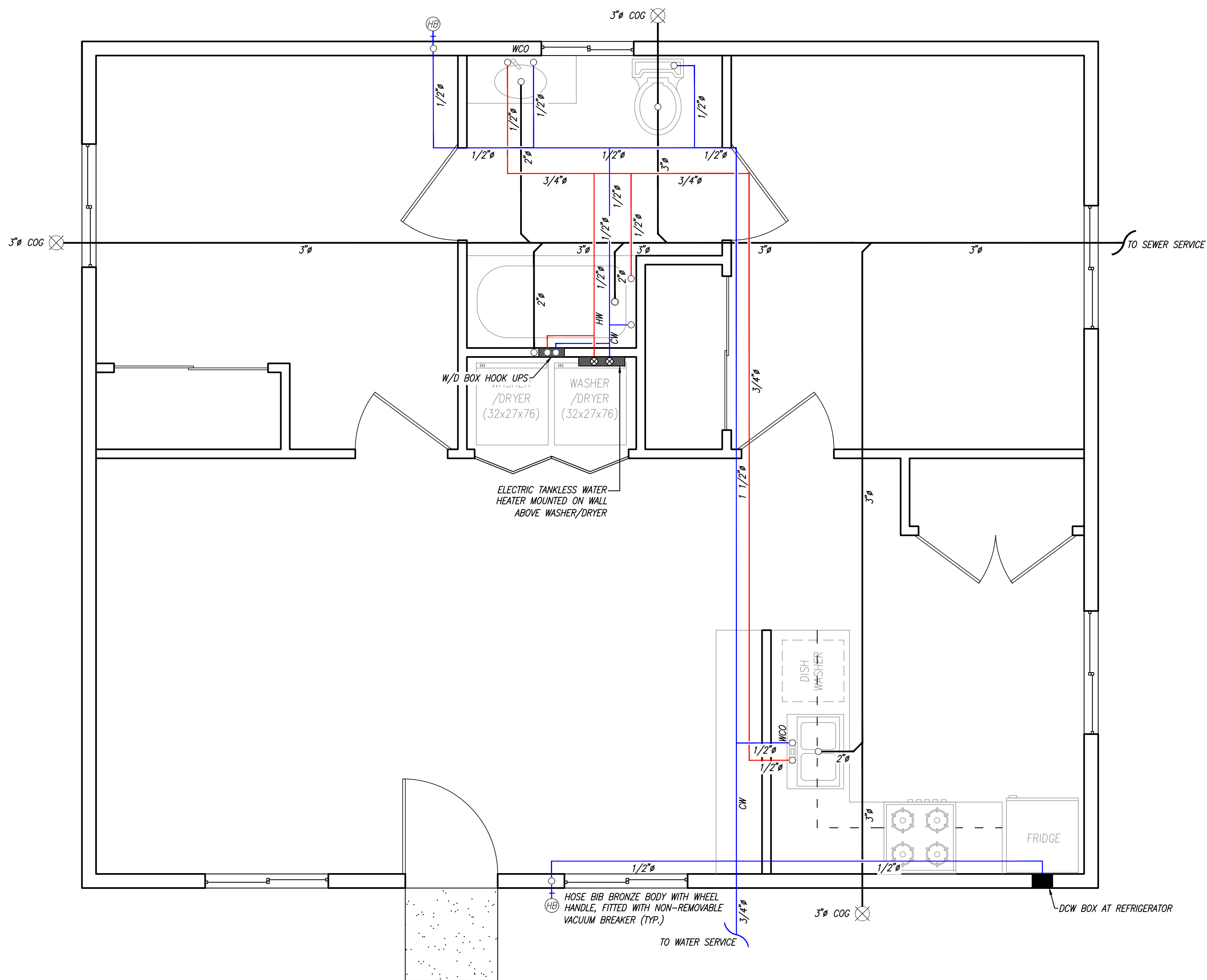
REVISIONS

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	ELECTRICAL PLAN
AGENCY	DATE
ADU SOFT	7/23/2024
	SJW REAP

908

DRAWING SCALE  
1" = 1'

SHEET  
**E1**



SEWER LINE SHALL SLOPE MINIMUM 2%  
UTILITY FEEDS, MPOE'S, AND METER/SERVICE  
LOCATIONS ARE NOT LOCATED IN PLANS

TABLE 610.4  
FIXTURE UNIT TABLE FOR DETERMINING WATER PIPE AND METER SIZES

METER AND STREET SERVICE (inches)	BUILDING SUPPLY AND BRANCHES (inches)	MAXIMUM ALLOWABLE LENGTH (feet)															
		40	60	80	100	150	200	250	300	400	500	600	700	800	900	1000	
PRESSURE RANGE — 30 to 45 psi <sup>1</sup>																	
3/4	1/2 <sup>2</sup>	6	5	4	3	2	1	1	1	0	0	0	0	0	0	0	0
3/4	3/4	16	16	14	12	9	6	5	5	4	4	3	2	2	2	1	1
3/4	1	29	25	23	21	17	15	13	12	10	8	6	6	6	6	6	6
1	1	36	31	27	25	20	17	15	13	12	10	8	6	6	6	6	6
3/4	1 1/4	36	33	31	28	24	23	21	19	17	16	13	12	12	11	11	11
1	1 1/4	54	47	42	38	32	28	25	23	19	17	14	12	12	11	11	11
1 1/2	1 1/4	78	68	57	48	38	32	28	25	21	18	15	12	12	11	11	11
1	1 1/2	85	84	79	65	56	48	43	38	32	28	26	22	21	20	20	20
1 1/2	1 1/2	150	124	105	91	70	57	49	45	36	31	26	23	21	20	20	20
2	1 1/2	151	129	129	110	80	64	53	46	38	32	27	23	21	20	20	20
1	2	85	85	85	85	85	85	82	80	66	61	57	52	49	46	43	43
1 1/2	2	220	205	190	176	155	138	127	120	104	85	70	61	57	54	51	51
2	2	370	327	292	265	217	185	164	147	124	96	70	61	57	54	51	51
2	2 1/2	445	418	390	370	330	300	280	265	240	220	198	175	158	143	133	133

For SI units: 1 inch = 25 mm, 1 foot = 304.8 mm, 1 pound-force per square inch = 6.8947 kPa

- Notes:
- Available static pressure after head loss.
  - Building supply, not less than 3/2 of an inch (20 mm) nominal size.

FIXTURE UNIT TABLE

FIXTURES	QTY	COLD WATER		HOT WATER (COLD WATER VALUE x0.75)	
		WSFU (EACH)	WSFU (EACH)	WSFU (EACH)	WSFU (EACH)
WATER CLOSET	1	2.5	2.5	0	0
LAVATORY	1	1	1	0.75	0.75
SINK	1	1.5	1.5	1.5	1.5
BATHTUB	1	4	4	3	3
DISHWASHER	1	1.5	1.5	1.5	1.5
CLOTHES WASHER	1	4	4	3	3
HOSE BIB	2	2.5	5	---	---
SUBTOTALS				9.75	
TOTAL				29.25	

NOTES

ASSUMPTION: 3/4" MUNICIPAL WATER SERVICE  
CONNECTION TO BE DETERMINED ON SITE

610.3 Quantity of Water

The quantity of water required to be supplied to every plumbing fixture shall be represented by fixture units, as shown in Table 610.3. Equivalent fixture values shown in Table 610.3 include both hot and cold water demand.

TABLE 610.3  
WATER SUPPLY FIXTURE UNITS (WSFU) AND MINIMUM FIXTURE BRANCH PIPE SIZES<sup>1</sup>

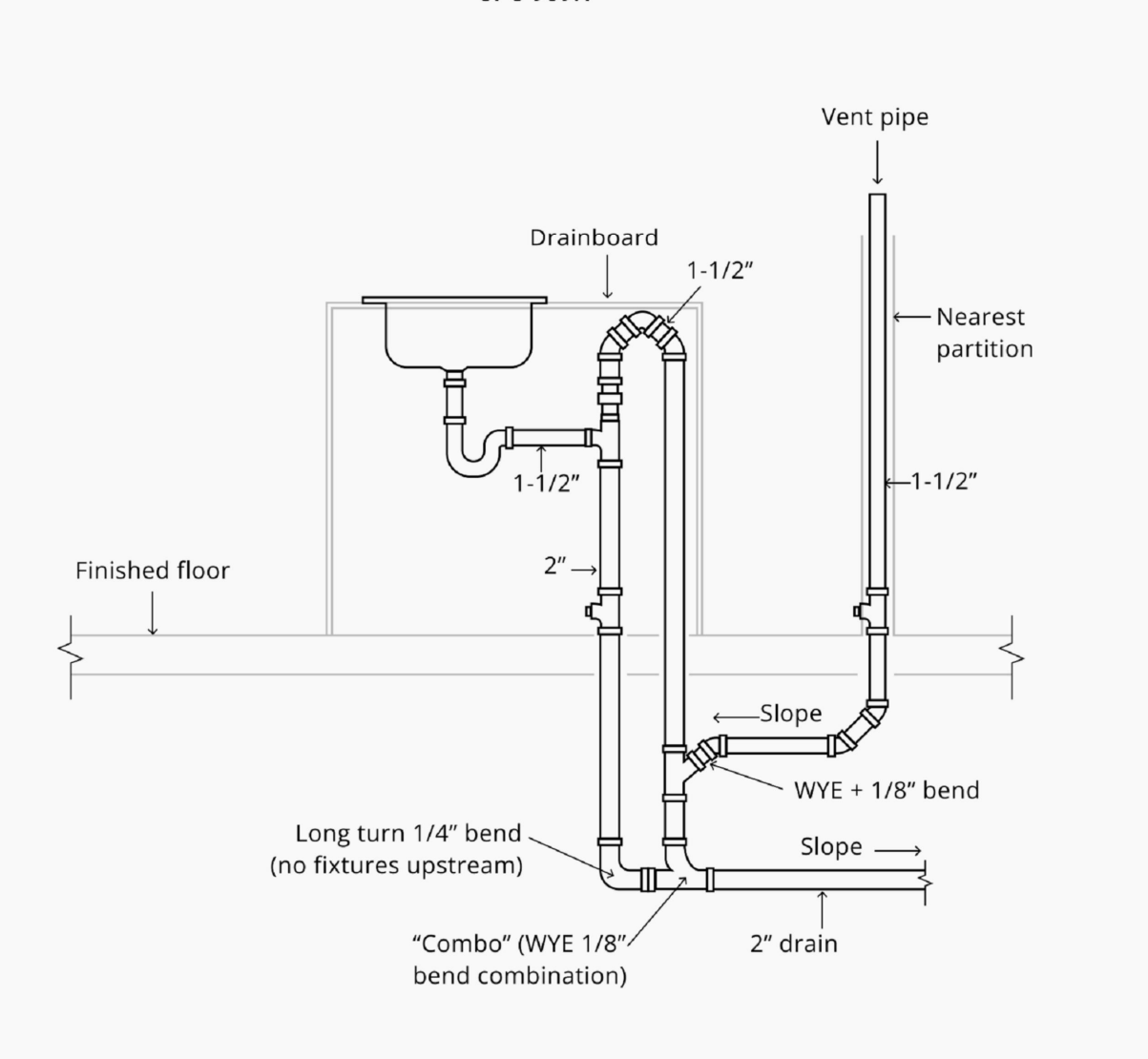
APPLIANCES, APPURTENANCES OR FIXTURES <sup>2</sup>	MINIMUM FIXTURE BRANCH PIPE SIZE <sup>1,4</sup> (inches)	PRIVATE	PUBLIC	ASSEMBLY <sup>6</sup>
Bathtub or Combination Bath/Shower (fill)	1/2	4.0	4.0	—
3/4 inch Bathtub Fill Valve	3/4	10.0	10.0	—
Bidet	1/2	1.0	—	—
Clothes Washer	1/2	4.0	4.0	—
Dental Unit, cuspidor	1/2	—	1.0	—
Dishwasher, domestic	1/2	1.5	1.5	—
Drinking Fountain or Water Cooler	1/2	0.5	0.5	0.75
Hose Bibb	1/2	2.5	2.5	—
Hose Bibb, each additional <sup>8</sup>	1/2	1.0	1.0	—
Lavatory	1/2	1.0	1.0	1.0
Lawn Sprinkler, each head <sup>5</sup>	—	1.0	1.0	—
Mobilehome or Manufactured Home, each (minimum) <sup>7</sup>	—	6.0	—	—
Sinks	—	—	—	—
Bar	1/2	1.0	2.0	—
Clinical Faucet	1/2	—	3.0	—
Clinical Flushometer Valve with or without faucet	1	—	8.0	—
Kitchen, domestic with or without dishwasher	1/2	1.5	1.5	—
Laundry	1/2	1.5	1.5	—
Service or Mop Basin	1/2	1.5	3.0	—
Washup, each set of faucets	1/2	—	2.0	—
Shower, per head	1/2	2.0	2.0	—
Urinal, 1.0 GPF Flushometer Valve	3/4	—	See Footnote <sup>7</sup>	—
Urinal, greater than 1.0 GPF Flushometer Valve	3/4	—	See Footnote <sup>7</sup>	—
Urinal, flush tank	1/2	2.0	2.0	3.0
Urinal with Drain Cleansing Action	1/2	1.0	1.0	1.0
Wash Fountain, circular spray	3/4	—	4.0	—
Water Closet, 1.6 GPF Gravity Tank	1/2	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Tank	1/2	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Valve	1	—	See Footnote <sup>7</sup>	—
Water Closet, greater than 1.6 GPF Gravity Tank	1/2	3.0	5.5	7.0
Water Closet, greater than 1.6 GPF Flushometer Valve	1	—	See Footnote <sup>7</sup>	—

For SI units: 1 inch = 25 mm

Notes:

- Size of the cold branch pipe, or both the hot and cold branch pipes.
- Appliances, appurtenances, or fixtures not referenced in this table shall be permitted to be sized by reference to fixtures having a similar flow rate and frequency of use.
- The listed fixture unit values represent their load on the cold water building supply. The separate cold water and hot water fixture unit value for fixtures having both hot and cold water connections shall be permitted to be each taken as three-quarter of the listed total value of the fixture.
- The listed minimum supply branch pipe sizes for individual fixtures are the nominal (I.D.) pipe size.
- For fixtures or supply connections likely to impose continuous flow demands, determine the required flow in gallons per minute (gpm) (L/s), and add it separately to the demand in gpm (L/s) for the distribution system or portions thereof.
- Assembly (Public Use (See Table 422.1)).
- Where sizing flushometer systems, see Section 610.10.
- Reduced fixture unit loading for additional hose bibbs is to be used where sizing total building demand and for pipe sizing where more than one hose bibb is supplied by a segment of water distribution pipe. The fixture branch to each hose bibb shall be sized on the basis of 2.5 fixture units.
- For water supply fixture unit values related to lots within mobilehome parks in all parts of the State of California, see California Code of Regulations, Title 25, Division 1, Chapter 2, Article 5, Section 2278. For water supply fixture unit values related to lots within special occupancy parks in all parts of the State of California, see California Code of Regulations, Title 25, Division 1, Chapter 2, Article 5, Section 2278.

SPECIAL VENTING FOR ISLAND FIXTURES  
UPC 909.1



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REVISIONS

NO.	DATE	DESCRIPTION

PROJECT TITLE	MADERA COUNTY — PRE-REMOVED ADU PROGRAM
SHEET DESCRIPTION	PLUMBING PLAN
DATE	7/23/2024
AGENCY	SJM REAP

ADU SQFT  
**908**

DRAWING SCALE  
-

SHEET  
**P1**

**DISCLAIMER**  
 The WUI information in this content is found on various public agency publications and media and is contained here as a convenience to aid consumers to discover information and policies of such. Intent of content is to compile and re-state agency information or amplify it; no content agencies base information found on agency publications and media, or add or make a claim to content beyond. Where consumers are utilizing the information, it must first be confirmed with those agencies to ensure accurate and current information in compliance to the date of the presentation of information. Content is limited to use in Wildland Urban Interface areas and structures in compliance with Wildland Urban Interface areas defined by agencies unless otherwise approved in specific applications to agencies beyond this content, and does not attempt to address other disciplines in the built environment (planning, zoning, code compliance, utilities, funding, climate, and other companion bodies of information).

# WILDLAND URBAN INTERFACE

THE WUI IS THE ZONE OF TRANSITION BETWEEN UNOCCUPIED LAND AND HUMAN DEVELOPMENT. IT IS THE LINE, AREA OR ZONE WHERE STRUCTURES AND OTHER HUMAN DEVELOPMENT MEET OR INTERMINGLE WITH UNDEVELOPED WILDLAND OR VEGETATIVE FUELS.

## ZONES SURROUNDING STRUCTURES:

### ZONE 0 HOME HARDENING

- HOME HARDENING IS NECESSARY TO INCREASE THE CHANCES OF SURVIVING A WILDFIRE.
- ELIMINATING FLAMMABLE MATERIALS AND VEGETATION IS ESSENTIAL TO PREVENT FLYING EMBERS FROM IGNITING STRUCTURES.
- PLUG OR REPAIR ALL GAPS, HOLES, OR ROT IN EXTERIOR SIDING.
- DRIVEWAYS: ENSURE ACCESS TO YOUR HOME COMPLIES WITH LOCAL FIRE CODES.
- VENTS THAT ARE BOTH EMBER AND FLAME RESISTANT.
- INSTALLATION OF A CLASS A RATED ROOF.
- GUTTERS FROM WITH PROPER SCREENS AND ROOF FLASHING.
- 6 INCH VERTICAL NON COMBUSTIBLE MATERIALS AT BASE OF WALLS AND DECKS
- SEAL ALL OPENINGS INTO THE HOME
- WEATHER STRIPPING ON DOORS INCLUDING THE GARAGE DOOR
- DOUBLE PANE, TEMPERED GLASS WINDOWS
- DECKS SHOULD BE CONSTRUCTED OF MATERIALS APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL
- NO COMBUSTIBLE MATERIAL IS ALLOWED UNDER DECKS
- DECKS SHOULD BE ENCLOSED WITH SCREENS OR NON COMBUSTIBLE MATERIALS TO KEEP EMBERS OUT
- NO COMBUSTIBLE GATE OR FENCE SHOULD BE ATTACHED TO THE HOME

### ZONE 0: 0-5 FT

- USE LANDSCAPING LIKE GRAVEL, PAVERS, OR CONCRETE. NO COMBUSTIBLE BARK OR MULCH.
- REMOVE ALL DEAD AND DYING PLANTS, WEEDS, AND DEBRIS (LEAVES, NEEDLES, ETC.) FROM YOUR ROOF, GUTTER, DECK, PORCH, STAIRWAYS, AND UNDER ANY AREAS OF YOUR HOME.
- REMOVE ALL BRANCHES WITHIN 10 FEET OF ANY CHIMNEY OR STOVEPIPE OUTLET.
- LIMIT COMBUSTIBLE ITEMS (LIKE OUTDOOR FURNITURE AND PLANTERS) ON TOP OF DECKS.
- RELOCATE FIREWOOD AND LUMBER TO ZONE 2.
- REPLACE COMBUSTIBLE FENCING, GATES, AND ARBORS ATTACHED TO THE HOME WITH NONCOMBUSTIBLE ALTERNATIVES.
- CONSIDER RELOCATING GARBAGE AND RECYCLING CONTAINERS OUTSIDE THIS ZONE.
- CONSIDER RELOCATING BOATS, RVs, VEHICLES, AND OTHER COMBUSTIBLE ITEMS OUTSIDE THIS ZONE.

### ZONE 1: 5-30 FT

- REMOVE ALL DEAD PLANTS, GRASS, AND WEEDS.
- REMOVE DEAD OR DRY LEAVES AND PINE NEEDLES.
- TRIM TREES REGULARLY TO KEEP BRANCHES A MINIMUM OF 10 FEET FROM OTHER TREES.
- RELOCATE EXPOSED WOOD PILES OUTSIDE OF ZONE 1.
- CREATE A SEPARATION BETWEEN TREES, SHRUBS, AND ITEMS THAT COULD CATCH FIRE, SUCH AS PATIO FURNITURE, WOOD PILES, SWING SETS, ETC.

### ZONE 2: 30-100 FT

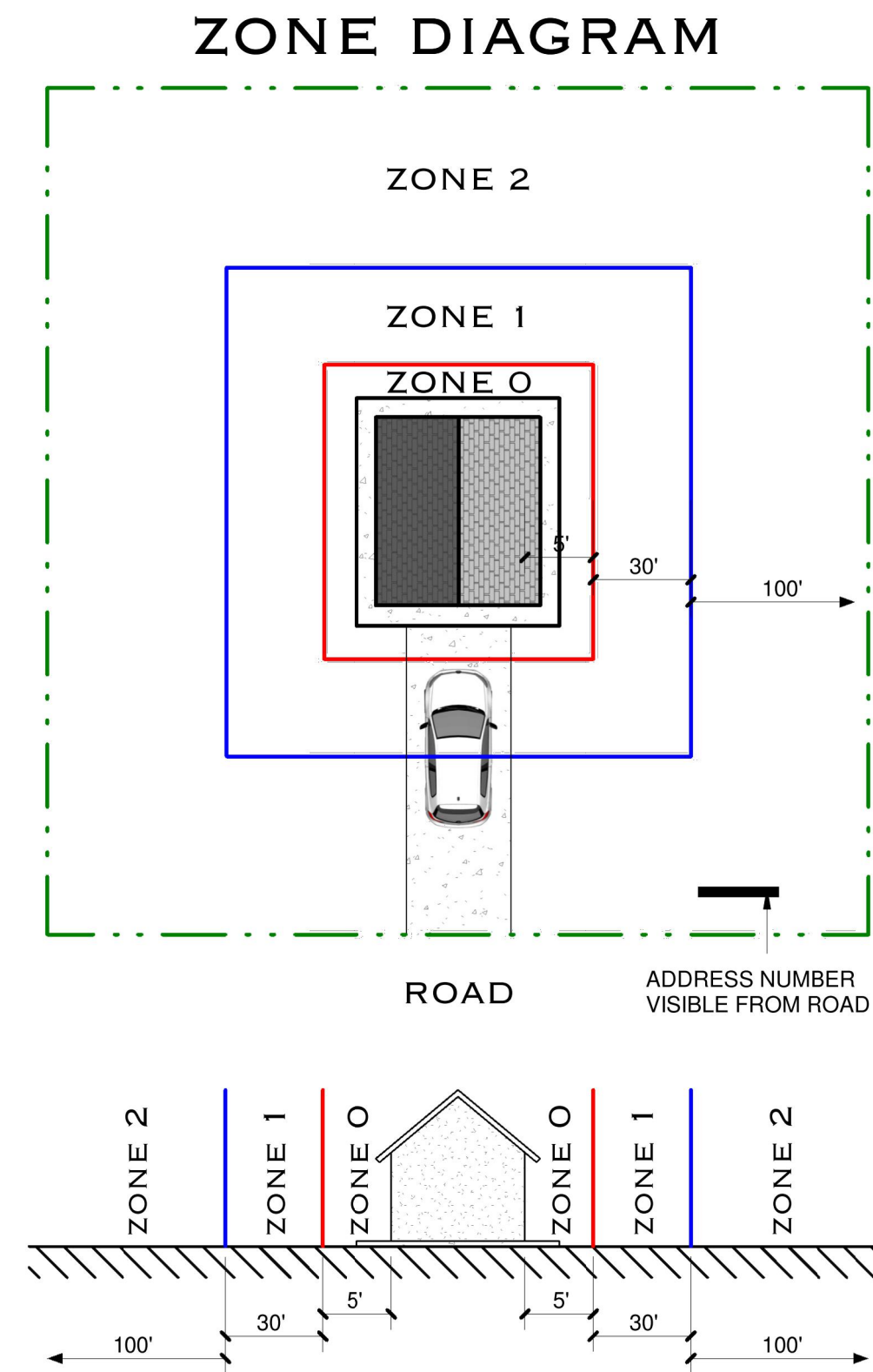
- CUT OR MOW ANNUAL GRASS DOWN TO A MAXIMUM HEIGHT OF FOUR INCHES.
- CREATE HORIZONTAL SPACE BETWEEN SHRUBS AND TREES.
- CREATE VERTICAL SPACE BETWEEN GRASS, SHRUBS AND TREES.
- REMOVE FALLEN LEAVES, NEEDLES, TWIGS, BARK, CONES, AND SMALL BRANCHES. HOWEVER, THEY MAY BE PERMITTED TO A DEPTH OF THREE INCHES
- KEEP 10 FEET OF CLEARANCE AROUND EXPOSED WOOD PILES, DOWN TO BARE MINERAL SOIL, IN ALL DIRECTIONS.
- CLEAR AREAS AROUND OUTBUILDINGS AND PROPANE TANKS. KEEP 10 FEET OF CLEARANCE TO BARE MINERAL SOIL AND NO FLAMMABLE VEGETATION FOR AN ADDITIONAL 10 FEET AROUND THEIR EXTERIOR.

### OTHER REQUIREMENTS

- LOGS OR STUMPS EMBEDDED IN THE SOIL MUST BE REMOVED OR ISOLATED FROM OTHER VEGETATION
- OUTBUILDINGS AND LIQUID PROPANE GAS (LPG) STORAGE TANKS SHALL HAVE 10 FEET OF CLEARANCE TO BARE MINERAL SOIL AND NO FLAMMABLE VEGETATION FOR AN ADDITIONAL 10 FEET AROUND THEIR EXTERIOR.
- ADDRESS NUMBERS SHALL BE DISPLAYED IN CONTRASTING COLORS (4" MIN. SIZE) AND READABLE FROM THE STREET OR ACCESS ROAD.
- CHIMNEY OR STOVEPIPE OPENINGS AND WITH A METAL SCREEN HAVING OPENINGS BETWEEN 3 / 8 INCH AND 1 / 2 INCH.
- DEAD OR DYING TREES ON PROPERTY. VISIT [READYFORWILDFIRE.ORG/DEAD-TREE-REMOVAL](http://READYFORWILDFIRE.ORG/DEAD-TREE-REMOVAL) TO LEARN ABOUT PERMIT REQUIREMENTS.
- WATER SUPPLY: HAVE MULTIPLE GARDEN HOSES THAT ARE LONG ENOUGH TO REACH ALL AREAS OF YOUR HOME

100 FEET OF DEFENSIBLE SPACE (FROM PROPERTY) IS REQUIRED BY LAW. REGULATION CAN BE FOUND IN 14 CCR 1299.03, PRC 4291, BOF GENERAL GUIDELINES, CFC 505.1, CBC 2113.9.2, CALIFORNIA BUILDING CODE CHAPTER 7A REQUIRES CERTAIN CONSTRUCTION MATERIAL AND METHODS FOR HOMES IN WILDLAND AREAS. CONTACT YOUR LOCAL FIRE DEPARTMENT FOR ADDITIONAL REQUIREMENTS TO ENSURE YOUR HOME IS COMPLIANT WITH THE LAW. FOR MORE INFORMATION ON LAWS AND CODES GO TO: [READYFORWILDFIRE.ORG/THELAW](http://READYFORWILDFIRE.ORG/THELAW)

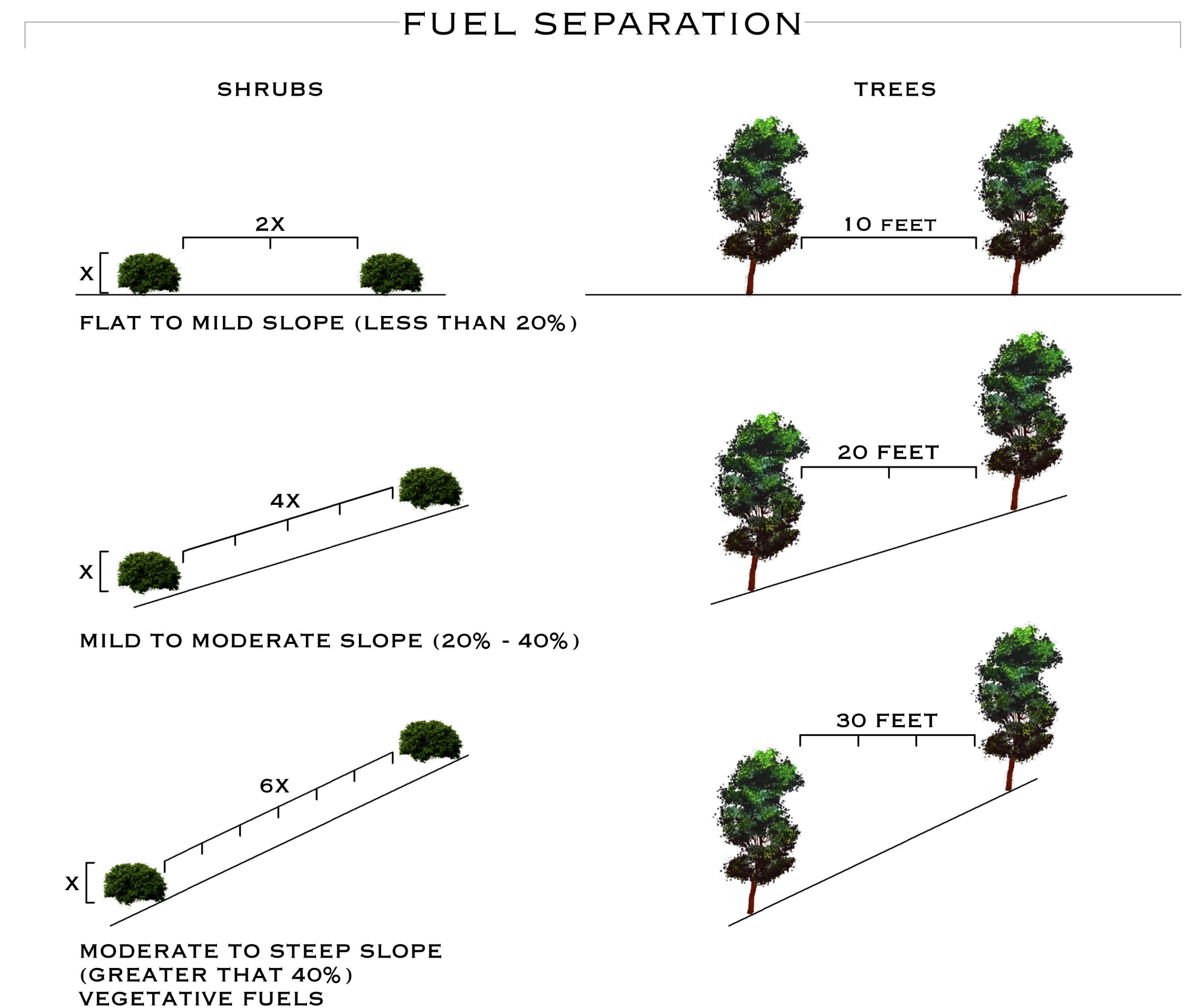
PRC 4119. THE AGENCY, OR ITS DULY AUTHORIZED AGENT, SHALL ENFORCE THE STATE FOREST AND FIRE LAWS. THE AGENCY MAY INSPECT ALL PROPERTIES, EXCEPT THE INTERIOR OF DWELLINGS, SUBJECT TO THE STATE FOREST AND FIRE LAWS, FOR THE PURPOSE OF ASCERTAINING COMPLIANCE WITH SUCH LAWS.



### VERTICAL SPACING

- ELIMINATE OPPORTUNITIES FOR A VERTICAL "FIRE LADDER" BY
- REMOVING BRANCHES BENEATH LARGE TREES FOR A 6-FOOT MINIMUM CLEARANCE.
  - CREATE PROPER VERTICAL SPACING BETWEEN SHRUBS AND THE LOWEST BRANCHES OF TREES BY USING THE FORMULA SHOWN.

## VEGETATIVE SEPARATION:



### HORIZONTAL SPACING

THE SPACING BETWEEN GRASS, SHRUBS, AND TREES IS CRUCIAL TO REDUCE THE SPREAD OF WILDFIRE. THE SPACING NEEDED IS DETERMINED BY THE TYPE AND SIZE OF THE SHRUBS AND TREES, AS WELL AS SLOPE OF LAND. FOR EXAMPLE, A PROPERTY ON A STEEP SLOPE WITH LARGER PLANT LIFE WILL REQUIRE GREATER SPACING BETWEEN TREES AND SHRUBS THAN A LEVEL PROPERTY THAT HAS SPARSE VEGETATION.

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REVISIONS

PROJECT TITLE	MADERA COUNTY - PRE-REVIEWED ADU PROGRAM
SHEET DESCRIPTION	WILDLAND URBAN INTERFACE
AGENCY	DATE
	7/23/2024
ADU SQFT	
	908
DRAWING SCALE	
	-
SHEET	
	L1

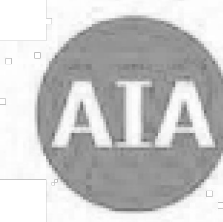


Table with 2 columns: Y/N/A, RESPON PARTY. Contains sections: CHAPTER 3 GREEN BUILDING, SECTION 301 GENERAL, SECTION 302 MIXED OCCUPANCY BUILDINGS, DIVISION 4.1 PLANNING AND DESIGN, CHAPTER 4 RESIDENTIAL MANDATORY MEASURES, SECTION 4.102 DEFINITIONS, SECTION 4.106 SITE DEVELOPMENT, SECTION 4.106.3 GRADING AND PAVING.

Table with 2 columns: Y/N/A, RESPON PARTY. Contains sections: 4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities, 4.106.4.2 Multifamily development projects with less than 20 dwelling units, and hotels and motels with less than 20 sleeping units or guest rooms, 4.106.4.2.2.1 Electric vehicle charging stations (EVCS), 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions, 4.106.4.2.3 EV space requirements.

Table with 2 columns: Y/N/A, RESPON PARTY. Contains sections: 4.106.4.2.4 Identification, 4.106.4.2.5 Electric Vehicle Ready Space Signage, 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings, DIVISION 4.2 ENERGY EFFICIENCY, 4.201 GENERAL, DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION, 4.303 INDOOR WATER USE, 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS, 4.303.1.1 Water Closets, 4.303.1.2 Urinals, 4.303.1.3 Showerheads, 4.303.1.3.1 Single Showerhead, 4.303.1.3.2 Multiple showerheads serving one shower, 4.303.1.4 Faucets, 4.303.1.4.1 Residential Lavatory Faucets, 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas, 4.303.1.4.3 Metering Faucets, 4.303.1.4.4 Kitchen Faucets, 4.303.1.4.5 Pre-rinse spray valves, FOR REFERENCE ONLY, TABLE H-2, TABLE - MAXIMUM FIXTURE WATER USE.

Table with 2 columns: Y/N/A, RESPON PARTY. Contains sections: 4.304 OUTDOOR WATER USE, 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS, DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE, 4.406.1 RODENT PROOFING, 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING, 4.408.1 CONSTRUCTION WASTE MANAGEMENT, 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN, 4.408.3 WASTE MANAGEMENT COMPANY, 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE (LR), 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE, 4.408.5 DOCUMENTATION, 4.410 BUILDING MAINTENANCE AND OPERATION, 4.410.1 OPERATION AND MAINTENANCE MANUAL, 4.410.2 RECYCLING BY OCCUPANTS, DIVISION 4.5 ENVIRONMENTAL QUALITY, SECTION 4.501 GENERAL, SECTION 4.502 DEFINITIONS, AGRIFIBER PRODUCTS, COMPOSITE WOOD PRODUCTS, DIRECT-VENT APPLIANCE.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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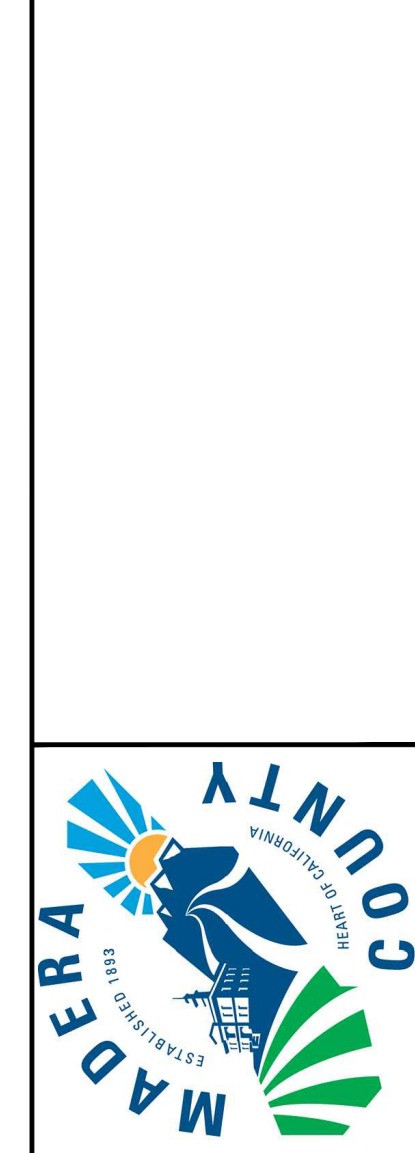


Table with 2 columns: PROJECT TITLE, SHEET DESCRIPTION, AGENCY, DATE. Contains: MADERA COUNTY - PRE-REVIEWED ADU PROGRAM, CALGREEN FORM, SW REP, 7/23/2024

Table with 2 columns: ADU SOFT, DRAWING SCALE, SHEET. Contains: 908, - , G1





CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Project Name: Madera Plan 908 ADU
Calculation Date/Time: 2024-06-20T17:11:59-07:00
Input File Name: Precision Engineering\_Madera Plan 908 ADU.rbd2x

Item	Project Name	Madera Plan 908 ADU
01	Run Title	Madera Plan 908 ADU
02	Project Location	Various Locations
04	City	Madera
06	Zip Code	95337
08	Climate Zone	09
10	Building Type	Single Family
12	Project Status	Newly Constructed
14	Addition Cond. Floor Area (Sq Ft)	15
16	Existing Cond. Floor Area (Sq Ft)	17
18	Total Cond. Floor Area (Sq Ft)	32
20	ADU Bedroom Count	1
22	Fuel Type	Natural Gas

COMPLIANCE RESULTS

01	Building Complies with Computer Performance	Yes
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEK-approved HERS provider.	Yes
03	This building incorporates one or more special features shown below	Yes

Registration Number: 224-P010022308-000-000-000000-0000
Registration Date/Time: 2024-06-20 16:21:05
HERS Provider: CaCERTS, Inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance
Report Version: 2022.0.000
Report Generated: 2024-06-26 17:12:32

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Project Name: Madera Plan 908 ADU
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Energy Use Intensity	Standard Design (kBtu/ft <sup>2</sup> ·yr)	Proposed Design (kBtu/ft <sup>2</sup> ·yr)	Compliance Margin (kBtu/ft <sup>2</sup> ·yr)	Margin Percentage
North Facing				
Gross EUI <sup>1</sup>	29.77	25.03	0.74	2.49
Net EUI <sup>2</sup>	15.04	14.3	0.74	4.92
East Facing				
Gross EUI <sup>1</sup>	29.77	25.93	0.84	2.82
Net EUI <sup>2</sup>	15.04	14.2	0.84	5.59
South Facing				
Gross EUI <sup>1</sup>	29.77	26.95	0.82	2.75
Net EUI <sup>2</sup>	15.04	14.23	0.81	5.45
West Facing				
Gross EUI <sup>1</sup>	29.77	25.86	0.79	2.65
Net EUI <sup>2</sup>	15.04	14.25	0.79	5.25

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Construction Name	Surface Type	Construction Type	Framing	Total cavity R-value	Min. R-value	Min. R-value	Min. R-value	Min. R-value	Min. R-value
R21 Wall + R5	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R-21	None / 5	0.048			
ATK Roof/Whole House	ATK Roofs	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-13	None / 0	0.078			
R38 Attic + R13 Roof	Ceilings (Below Attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-38	None / 0	0.025			
R21 Attic + R13	Ceilings (Below Attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-21	None / 0	0.04			

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Energy Design Metrics	Energy Design Metrics			Compliance Margins		
	Source Energy (kBtu/ft <sup>2</sup> ·yr)	Efficiency EDR (EDR2/Reference)	Total EDR (EDRtotal)	Source Energy (EDR1)	Efficiency EDR (EDR2/Reference)	Total EDR (EDRtotal)
Standard Design	49.7	45.4	33.8			
Proposed Design						
North Facing	47.9	44.8	33.4	1.8	0.6	0.4
East Facing	47.7	43.7	32.7	2	1.7	1.1
South Facing	47.6	43.8	32.8	2.1	1.6	1
West Facing	47.7	44.6	33.1	2	0.8	0.5

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Item	01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kW)												
Exception												
Module Type												
Array Type												
Power Electronics												
CRI												
Approach												
Height												
Array Angle												
Tilt to Inverter												
Inverter												
Inverter DC												
Solar Access (%)												

Registration Number: 224-P010022308-000-000-000000-0000
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Item	01	02	03	04	05	06	07	08	09
Name									
Type									
Surface									
Orientation									
Altitude									
WASH (ft)									
Height (ft)									
Area (sq ft)									
U-factor									
SHGC									
SHGC Source									
Exterior Shading									

Registration Number: 224-P010022308-000-000-000000-0000
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Energy Use	Standard Design Source Energy (kBtu/ft <sup>2</sup> ·yr)	Standard Design TDV Energy (kBtu/ft <sup>2</sup> ·yr)	Proposed Design Source Energy (kBtu/ft <sup>2</sup> ·yr)	Proposed Design TDV Energy (kBtu/ft <sup>2</sup> ·yr)	Compliance Margin (EDR)	Compliance Margin (EDR)
Space Heating	1.53	11.38	1.54	11.82	-0.01	-0.24
Space Cooling	2.32	46.7	2.35	46.7	-0.03	-1.97
Water Heating	8.55	35.92	7.67	33.97	0.88	3.55
Lighting	0.42	4.47	0.42	4.47	0	0
Plug Loads	0.42	4.47	0.42	4.47	0	0
Unlabeled/Unverified	0	0	0	0	0	0
North Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34
South Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34
East Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34
West Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34

Registration Number: 224-P010022308-000-000-000000-0000
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Item	01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name														
Type														
Surface														
Orientation														
Altitude														
WASH (ft)														
Height (ft)														
Area (sq ft)														
U-factor														
SHGC														
SHGC Source														
Exterior Shading														

Registration Number: 224-P010022308-000-000-000000-0000
Registration Date/Time: 2024-06-20 16:21:05
HERS Provider: CaCERTS, Inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance
Report Version: 2022.0.000
Report Generated: 2024-06-26 17:12:32

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Project Name: Madera Plan 908 ADU
Calculation Date/Time: 2024-06-20T17:11:59-07:00
Input File Name: Precision Engineering\_Madera Plan 908 ADU.rbd2x

Item	01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name														
Type														
Surface														
Orientation														
Altitude														
WASH (ft)														
Height (ft)														
Area (sq ft)														
U-factor														
SHGC														
SHGC Source														
Exterior Shading														

Registration Number: 224-P010022308-000-000-000000-0000
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Energy Use	Standard Design Source Energy (kBtu/ft <sup>2</sup> ·yr)	Standard Design TDV Energy (kBtu/ft <sup>2</sup> ·yr)	Proposed Design Source Energy (kBtu/ft <sup>2</sup> ·yr)	Proposed Design TDV Energy (kBtu/ft <sup>2</sup> ·yr)	Compliance Margin (EDR)	Compliance Margin (EDR)
Space Heating	1.53	11.38	1.54	11.82	-0.01	-0.24
Space Cooling	2.32	46.7	2.35	46.7	-0.03	-1.13
Water Heating	8.55	35.92	7.67	33.97	0.88	3.55
Lighting	0.42	4.47	0.42	4.47	0	0
Plug Loads	0.42	4.47	0.42	4.47	0	0
Unlabeled/Unverified	0	0	0	0	0	0
North Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34
South Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34
East Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34
West Facing Efficiency Compliance Total	12.82	98.47	11.96	97.13	0.84	1.34

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