

## EMERGENCY EGRESS NOTE

I. PROVIDE EMERGENCY EXIT DOOR OR WINDOW FROM SLEEPING ROOMS. NET CLEAR WINDOW OPENING AREA SHALL NOT BE LESS THAN 5.7 SQ, FT. (EXCEPT AT GRADE FLOOR OPENING SHALL BE MIN. 5.0 SQ,FT.). MIN. NET WINDOW OPENING HEIGHT SHALL BE 24" CLEAR. NET OPENING WIDTH SHALL BE 20" CLEAR. FINISHED SILL HEIGHT ABOVE FLOOR SHALL BE 44" MAX. HEIGHT ABOVE THE FLOOR PER 2019 C.R.C.

2. LANDINGS AT REQUIRED EGRESS DOOR SHALL NOT BE MORE THAN I-I/2" LOWER THAN THE TOP OF THE

3. LANDINGS WITH DOORS THAT DO NOT SWING OVER THE LANDING MAY HAVE A DIFFERENCE IN ELEVATION OF 7.34" MAXIMUM BELOW THE TOP OF THE THRESHOLD. 4. LANDING AT DOORS OTHER THAN THE REQUIRED EGRESS DOOR SHALL NOT BE MORE THAN 7 3/4" BELOW THE

TOP OF THE THRESHOLD 5. EGRESS WINDOWS OPERATION SHALL BE FROM INSIDE THE ROOM WITHOUT THE USE OF SPECIAL KEYS, TOOLS OR KNOWLEDGE, CRC R310.1.1

6. EGRESS DOOR: Not less than one earess door shall be provided for each dwelling unit. The earess door shall be side-hinged, and shall provide a clear width of not less than 32 inches (813 mm) where measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad). The clear height of the door opening shall be not less than 78 inches (1981 mm) in height measured from the top of the threshold to the bottom of the stop. Other doors shall not be required to comply with these minimum dimensions. Egress doors shall be readily openable from inside the dwelling without the use of a key or special knowledge or effort. (2019 CRC R311.2)

## SMOKE DETECTOR REQUIREMENTS

. SMOKE ALARM SHALL BE INSTALLED IN EACH SLEEPING ROOM & HALLWAY OR AREA GIVING ACCESS TO A SLEEPING ROOM, AND ON EACH STORY AND BASEMENT FOR DWELLINGS WITH MORE THAN ONE STORY. b. IN NEW CONSTRUCTION WHEN TWO OR MORE BEDROOMS ARE A PART OF THE ADDITION, THE SMOKE DETECTORS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL

ACTIVATE ALL ALARMS WITHIN THE CIRCUIT. b. IN NEW CONSTRUCTION SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER SOURCE FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH BATTERY BACK-UP AND LOW BATTERY SIGNAL. (R314). SMOKE DETECTORS MAY BE SOLELY BATTERY OPERATED WHEN INSTALLED IN EXISTING SLEEPING ROOMS AND

c. SMOKE ALARM SYSTEM AND COMPONENTS SHALL BE CALIFORNIA STATE MARSHALL LISTED AND APPROVED (R314.1 CRC). SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQ'D FOR OVERCURRENT PROTECTION.

d. A SMOKE DETECTOR WILL BE INSTALL AT EACH FLOOR LEVEL

## CARBON MONOXIDE DETECTOR NOTE:

a. AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND IN SLEEPING UNITS WITHIN WHICH FUEL-BURNING APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.

b. CARBON MONOXIDE ALARM SHALL BE PROVIDED OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S) AND ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. (R315). WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQ'D FOR OVERCURRENT PROTECTION. (R315.1.1 CRC)

### ARCHITECTURAL NOTES:

l. Shower compartments and bathtubs with installed shower heads shall be finished with a non-absorbent surface that extends to a height of not less than 6 feet above the floor.

2. Provide 2x6 studs in plumbing walls to prevent excessive notching or boring of studs (CBC Sec. 2308.10.4.2). 3. a. Handrails shall be placed between 34"-38" above to nosing of treads and landings. b. Spacing opening between intermediate rails of handrail shall be less than 4-3/8".

4. Showers and shower-tub combinations shall be provided with individual control valves of the pressure balance o thermostatic mixing valve type. CPC 424.4.

5. Provide a permanently accessible 12" square bath tub access or use a non-slip joint trap (CPC Sec. 405.8) 6. Water conservation dévices are required to be installed per CPC Sec. 402 for all the plumbing fixtures such as

a) Tank-type toilets shall have a maximum flush of 1.28 gallons.

b) Water-saving shower head shall have a maximum flow of 1.8 gal./min. c) Water-saving lavatory faucets and miscell. sink shall have a maximum flow of 1.2 gal./min.

d) Kitchen faucets shall have a maximum flow of 1.8 gal./min.

#### e) Urinals = 0.125 gal./min. **ELECTRICAL NOTES:**

7. Branch circuits supplying outlets other than baths are to be protected by an arc-fault circuit interrupter (AFCI) 8. All lighting must be high efficacy. Any JA8 lights must be controlled by a vacancy sensor or dimmer. 9. Lighting in all other rooms such as dining rooms, living rooms, family rooms, bedrooms and any other rooms shall be fluorescent (pin base socket fixture).

10. The New HVAC system shall be tested for duct leakage by a HERS rater. II. All 120-v branch circuits supplying outlets in closets, hallways, bedrooms and other habitable rooms (except

kitchen) shall be protected by a listed arc-fault circuit interrupter (AFCI) - per CEC Sect. 210.12. 12. All receptacle outlets shall be listed tamper-resistant receptacle per CEC section 406.11.

13. a) A minimum of two 20 amp small appliance branch circuits shall be provided for all receptacle outlets in the itchen, dining room, pantry, or other similar areas.

b) At least one 20 amp branch circuit shall be provided to supply laundry receptacles outlets. such circuits shall have no other outlets.

14. All 125-volt, 15-amp, and 20-amp receptacles shall be listed as tamper-resistant receptacles. 15. The lighting fixtures that are recessed into insulated ceilings are required to be rated for insulation contact (K rated) so that insulation can be placed over them. the housing of the fixture shall be airtight to prevent conditioned air from escaping into ceiling cavity or attic space or prevent unconditioned air from infiltrating into

conditioned space. This is a mandatory measure. 16. Electrical Service Grounding for the new 200A electrical service panel. The electrical service grounding

electrode shall be: a. Of the concrete encased type.

b. Located in the bottom three (3) inches of the footing.

c. Not less than twenty (20) feet in length.

d. Bare copper conductor sized in accordance with this Code, Table 250.66 but not smaller than No.4 A.W.G e. Panel location needs to be coordinated with Edison Co.

7. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall be not less than trade size I (nominal I-inch inside diameter). The raceway shall originate at the main service or subpanel and terminate into a listed cabinet, box or other

enclosure in close proximity to the proposed location of an EV charger. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

18. Joints and openings, annular spaces around pipes, electric cables, conduits, or other openings in plates of exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method accepted by agency.

TITLE 24 NOTES:

20. Contractor shall post the installation certificate (CF-6R) form and insulation certificate (IC-I) form in a conspicuous location or kept with plan and made available to the inspector. 21. Contractor shall provide copies of the CF-IR, MF-IR, CF-6R and IC-I form to the building owner.

#### PLUMBING NOTES: 31. All ducts will be sealed and insulated with R-8 insulation.

32. For the purpose of humidity control, bathrooms containing a bathtub, shower or tub/shower combination, shall be mechanically ventilated. Exhaust air shall be ducted to terminate outside the building.

33. Exhaust fans provided for humidity control shall meet the following: I. ENERGY STAR compliant, and

2. Controlled by a humidity control unless functioning as a component of a whole house ventilation system. Humidity control shall operate as follows: a) Humidity controls shall be capable of adjustment between a relative humidity range of a greater than or equal

to 50% to a max. of 80%. the humidity control may utilize manual or automatic means of adjustment and, b) A humidity control may be a separate component to the exhaust fan and is not required to be integral. 34. A plumbing fixture certification must be completed and signed by either a licensed general contarctor, or a plumbing subcontractor of the building owner certifying the flow rate of the fixtures installed.

35. Provide a 24" space in front of the water closet, 30" wide (CPC Sec. 402.5) 36. Provide a minimum 30"x30" work space when furnace door is open along the entire front of firebox side of 37. Service grounding shall be provided per CEC Art. 250-52 (3) Uffer Ground or 250-52 (5) Ground Rod. The

Location is to be coordinated with Edison Co. 38. Water Heater pressure and temperature relief drain line needs to terminate to outside the building (CPC Sec.

MISCELLANEOUS NOTES:

## GLAZING NOTES:

ALL NEW WINDOWS AND GLAZED DOORS TO BE DUAL GLAZED W/ MAX. U-VALUE 0.40 AND MAX. SHGC OF 0.4. SAFETY GLAZING WHERE REQUIRED BY

PROVIDE TEMPERED GLAZING IN HAZARDOUS LOCATIONS SUCH AS SHOWER AND TUB ENCLOSURES, GLASS RAILINGS, FRENCH DOORS AND SIDELIGHTS, AND WINDOWS WITH GLAZING LESS THAN 18" ABOVE THE FLOOR AS WELL AS WINDOWS

WITHIN 24" OF A DOOR (CRC 308.4) 3. NFRC THERMAL PERFORMANCE LABELS SHALL REMAIN ON THE WINDOWS AND/OR DOORS UNTIL FINAL INSPECTION.

## PLUMBING FIXTURE NOTES: (APPLIES TO ALL PLUMBING FIXTURES)

WATER CLOSET FLUSH: WATER CLOSETS, EITHER FLUSH TANK, FLUSHOMETER TANK, OR FLUSHOMETER VALVE OPERATED, SHALL HAVE AN AVERAGE CONSUMPTION OF NOT MORE THAN 1.28 GALLONS OF WATER PER FLUSH LAV. FAUCETS SHALL HAVE A MAX. FLOW RATE OF 1.2 qpm AT 60 psi.

KITCHEN FAUCETS: MAX 1.8 apm AT 60 psi. SHOWERHEADS: MAX 2.0 apm AT 80 psi AND MULTIPLE SHOWEHEADS SERVING ONE SHOWER SHALL HAVE A COMBINE FLOW RATE OF 2.0 9pm AT 80

PLUMBING FIXTURES & FITTINGS SHALL COMPLY W/ CGBSC TABLE 4.303.3.

ALL WORK IN PUBLIC RIGHT-OF-WAY REQUIRES A SEPARATE PERMIT FROM PUBLIC WORKS

SPECIAL INSPECTION REQUIRED FOR ANCHOR BOLT RETROFIT. CBC TABLE 1705.3

PROVIDE DAMP-PROOFING SOLUTION FOR EXISTING CONCRETE SLAB UNDER CONVERTED AREA TO HABITABLE SPACE. 6 MIL. POLYETHYLENE, MOPPED ON BITUMEN OR

OTHER APPROVED METHOD AND/OR MATERIAL JOINTS IN MEMBRANE SHALL BE LAPPED AND SEALED IN APPROVED MANNER. CBC 1805.2.1

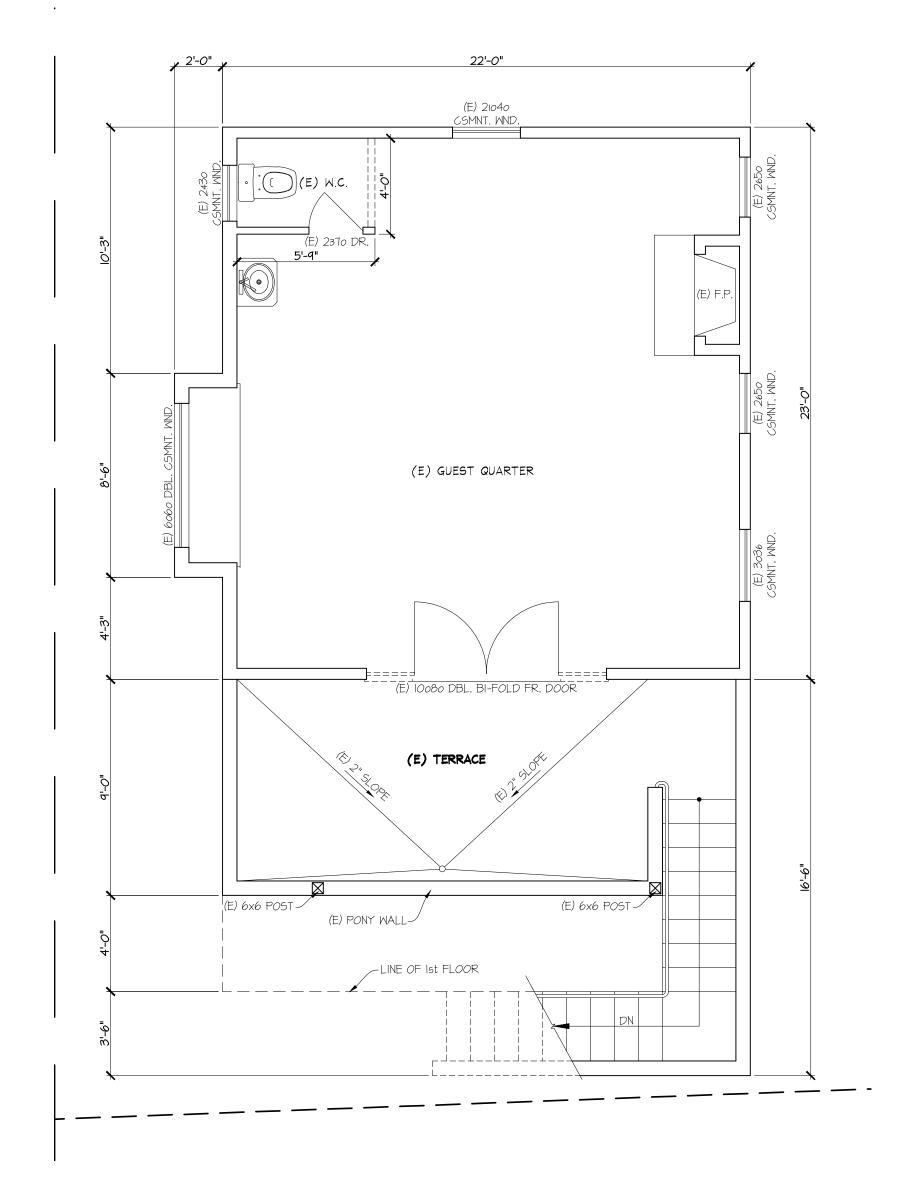
HEATING: EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A MINIMUM ROOM TEMPERATURE OF 68 DEGREES FAHRENHEIT AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM THE EXTERIOR WALLS IN ALL HABITABLE ROOMS. CRC R303.9.

## X 4x4 WOOD POST, U.N.O. (N) 2x4 WALL @ 16"OC (N) 2x6 WALL @ 16"0C (E) 2x WALL TO REMAIN

<u>LEGEND</u>

\_\_\_\_ WALL TO BE REMOVED (E) 8" CMU WALL (E) EXISTING (R) REMOVE (N) NEW

22'-0" ر "0-'2 م (E) CONC. WALK (E) 2868\ DOOR (E) SPLIT SYSTEM —(E) CONC. PAD (E) 2-CAR GARAGE (E) 2" SLOPE 3'-103/4" 5'-10<sup>3</sup>/4" (E) 1-CAR GARAGE (E) <u>2" SLO</u>PE



EXISTING/DEMO 2nd FLOOR PLAN

SCALE: 1/4"=1"

Pl. ck. #l: 2/1/2024

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DATE: 10/26/2023 JOB No:

#23077 (GriffithADU)

EXISTING 1st FLOOR PLAN

SCALE: 1/4"=1"

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ROOMS. CRC R303.9.

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JOINTS IN MEMBRANE SHALL BE LAPPED AND

SEALED IN APPROVED MANNER. CBC 1805.2.1

<u>LEGEND</u> (N) 2x4 WALL @ 16"OC (N) 2x6 WALL @ 16"0C (E) 2x WALL TO REMAIN \_\_\_\_ WALL TO BE REMOVED /////// (E) 8" CMU WALL

(E) EXISTING

(R) REMOVE

(N) NEW

(N) TEMP. GLASS SHOWER ENCLOSURE 3'-0" 3'-0" 2'-0" (P) ACCESSORY DWELLING UNIT (N) 30" STOVE )(N)| ISLAND \_w/ MICROWAVE AB\ (N) 36" REF. (N) 6080 DBL. FR. DOOR (E) TERRACE E) 6x6 POST-(E) 6x6 POST~ -LINE OF 1st FLOOR

(P) ACCESSORY DWELLING UNIT PLAN

Mille: Street, Su

Pl. ck. #l: 2/1/2024

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DATE: 10/26/2023 JOB No:

#23077 (GriffithADU)

SCALE: 1/4"=1



15'-0" F.S. 188.16' @ BACK F.S. 187.16' @ BACK

EXISTING EAST ELEVATION (NO CHANGES)

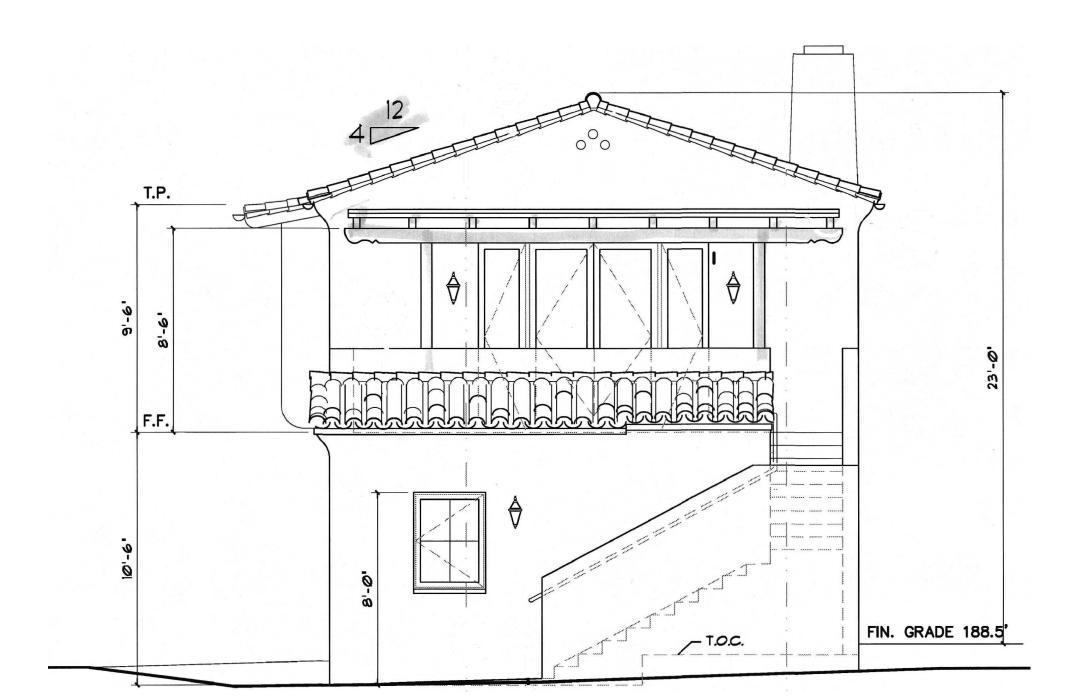
SCALE: 1/4"=1'-0"

Pl. ck. #1: 2/1/2024

DATE: 10/26/2023

#23077 (GriffithADU)

# EXISTING NORTH ELEVATION (NO CHANGES)



EXISTING SOUTH ELEVATION (NO CHANGES)

SCALE: 1/4"=1'-0"

SCALE: 1/4"=1'-0"

Pl. ck. #1: 2/1/2024

DATE: 10/26/2023

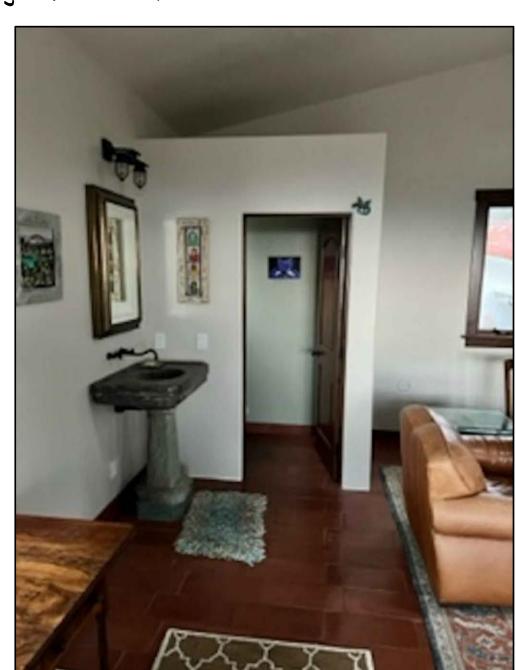
#23077 (GriffithADU)



1) Street view 1517 Cliff Dr.



4 Garage view no.1



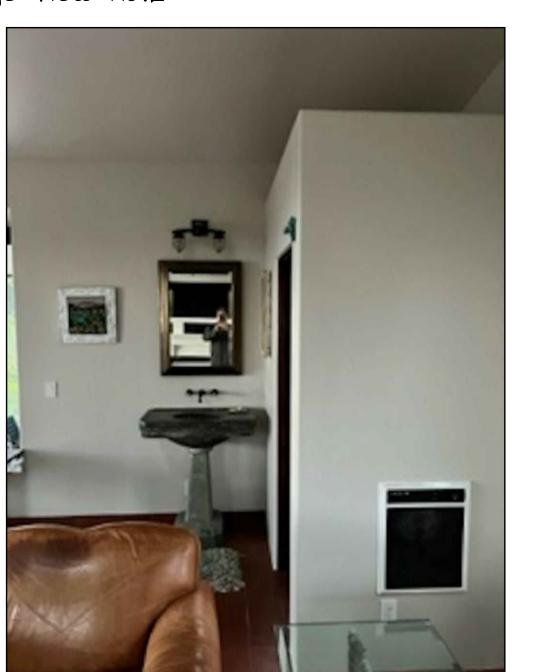
Bathroom view



2 Driveway



5 Garage view no.2



8 Bathroom alternative view



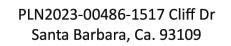
6 Kitchen layout



1517 Cliff Dr. Street View



Driveway View



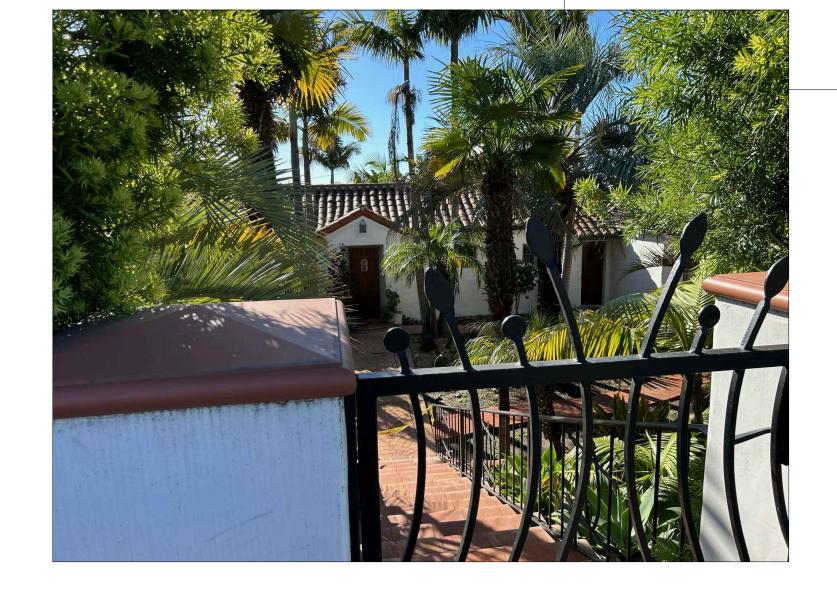


House 14' Height on Left-Garage Down Slope



ADU Above Garage which has a 23' Height







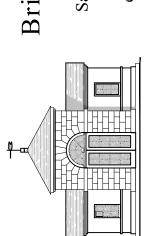


PLN2023-00486-1517 Cliff Dr Santa Barbara, Ca. 93109





Neighborhood View From ADU



REVISIONS

Pl. ck. #l: 2/1/2024

DATE: 10/26/2023 JOB No:

#23077 (GriffithADU)



## California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

NOT APPLICABLE
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, installed in close proximity to the location or the proposed location of the EV space at the time of original **CHAPTER 3** construction in accordance with the California Electrical Code. 1.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. **GREEN BUILDING** 4.304 OUTDOOR WATER USE When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the 4.106.4.2.4 Identification. 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest **SECTION 301 GENERAL** The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Efficient Landscape Ordinance (MWELO), whichever is more stringent. space shall count as at least one standard automobile parking space only for the purpose of complying with any **301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 4.106.4.2.5 Electric Vehicle Ready Space Signage. the application checklists contained in this code. Voluntary green building measures are also included in the Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans application checklists and may be included in the design and construction of structures covered by this code, Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, 4.106.4.2.1 Multifamily development projects with less than 20 dwelling units; and hotels and motels with less Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are than 20 sleeping units or guest rooms. **301.1.1 Additions and alterations. [HCD]** The mandatory provisions of Chapter 4 shall be applied to available at: https://www.water.ca.gov/ The number of dwelling units, sleeping units or quest rooms shall be based on all buildings on a project site subject to 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or specific area of the addition or alteration. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or **EFFICIENCY** of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE facilities or the addition of new parking facilities serving existing multifamily buildings. See Section system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all 4.106.4.3 for application. 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in EVs at all required EV spaces at a minimum of 40 amperes. sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved EV charging. lighting fixtures are not considered alterations for the purpose of this section. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. 4.408 CONSTRUCTION WASTE REDUCTION. DISPOSAL AND RECYCLING Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, o improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 DIVISION 4.2 ENERGY EFFICIENCY Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate percent of the non-hazardous construction and demolition waste in accordance with either Section 1. When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and management ordinance. 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy other important enactment dates. Commission will continue to adopt mandatory standards. 2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION Excavated soil and land-clearing debris. individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential Alternate waste reduction methods developed by working with local agencies if diversion or 4.303 INDOOR WATER USE buildings, or both. Individual sections will be designated by banners to indicate where the section applies recycle facilities capable of compliance with this item do not exist or are not located reasonably 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating high-rise buildings, no banner will be used. urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, 3. The enforcing agency may make exceptions to the requirements of this section when isolated future EV charging. jobsites are located in areas beyond the haul boundaries of the diversion facility. b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or **SECTION 302 MIXED OCCUPANCY BUILDINGS** Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan EV chargers are installed for use. plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final in conformance with Items 1 through 5. The construction waste management plan shall be updated as **302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building completion, certificate of occupancy, or final permit approval by the local building department. See Civil necessary and shall be available during construction for examination by the enforcing agency. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power shall comply with the specific green building measures applicable to each specific occupancy. Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per buildings affected and other important enactment dates. Identify the construction and demolition waste materials to be diverted from disposal by recycling, dwelling unit when more than one parking space is provided for use by a single dwelling unit. 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall reuse on the project or salvage for future use or sale. comply with Chapter 4 and Appendix A4, as applicable. **4.303.1.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per Specify if construction and demolition waste materials will be sorted on-site (source separated) or Exception: Areas of parking facilities served by parking lifts 2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense bulk mixed (single stream) Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Specification for Tank-type Toilets. Identify diversion facilities where the construction and demolition waste material collected will be 4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more Chapter 4 and Appendix A4, as applicable. sleeping units or guest rooms. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume 4. Identify construction methods employed to reduce the amount of construction and demolition waste DIVISION 4.1 PLANNING AND DESIGN The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to of two reduced flushes and one full flush. Specify that the amount of construction and demolition waste materials diverted shall be calculated **ABBREVIATION DEFINITIONS: 4.303.1.2 Urinals.** The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. by weight or volume, but not by both. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types Department of Housing and Community Development The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 California Building Standards Commission 4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical Division of the State Architect, Structural Safety enforcing agency, which can provide verifiable documentation that the percentage of construction and system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all OSHPD Office of Statewide Health Planning and Development demolition waste material diverted from the landfill complies with Section 4.408.1. EVs at all required EV spaces at a minimum of 40 amperes. Low Rise 4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA Note: The owner or contractor may make the determination if the construction and demolition waste The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved AA Additions and Alterations WaterSense Specification for Showerheads. materials will be diverted by a waste management company. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. **4.303.1.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of CHAPTER 4 showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in reduced by a number equal to the number of EV chargers installed over the five (5) percent required. RESIDENTIAL MANDATORY MEASURES allow one shower outlet to be in operation at a time Note: A hand-held shower shall be considered a showerhead 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds **SECTION 4.102 DEFINITIONS** a. Construction documents shall show locations of future EV spaces. 4.303.1.4 Faucets per square foot of the building area, shall meet the minimum 65% construction waste reduction 4.102.1 DEFINITIONS b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or The following terms are defined in Chapter 2 (and are included here for reference) **4.303.1.4.1 Residential Lavatory Faucets.** The maximum flow rate of residential lavatory faucets shall EV chargers are installed for use. not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall **4.408.5 DOCUMENTATION**. Documentation shall be provided to the enforcing agency which demonstrates FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar not be less than 0.8 gallons per minute at 20 psi. compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4... 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power pervious material used to collect or channel drainage or runoff water. Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per **4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas.** The maximum flow rate of lavatory **WATTLES.** Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials dwelling unit when more than one parking space is provided for use by a single dwelling unit. faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also buildings shall not exceed 0.5 gallons per minute at 60 psi. Sample forms found in "A Guide to the California Green Building Standards Code Exception: Areas of parking facilities served by parking lifts. used for perimeter and inlet controls. (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in 4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver documenting compliance with this section. 4.106 SITE DEVELOPMENT **3.EV Chargers.** Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. more than 0.2 gallons per cycle. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Where common use parking is provided, at least one EV charger shall be located in the common use parking 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation Department of Resources Recycling and Recovery (CalRecycle). and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, area and shall be available for use by all residents or guests. **4.303.1.4.4 Kitchen Faucets.** The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons management of storm water drainage and erosion controls shall comply with this section. per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not 4.410 BUILDING MAINTENANCE AND OPERATION When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per **4.410.1 OPERATION AND MAINTENANCE MANUAL.** At the time of final inspection, a manual, compact 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less an automatic load management system (ALMS) may be used to reduce the maximum required electrical minute at 60 psi. disc, web-based reference or other media acceptable to the enforcing agency which includes all of the than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers following shall be placed in the building: or more, shall manage storm water drainage during construction. In order to manage storm water drainage shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) **Note**: Where complying faucets are unavailable, aerators or other means may be used to achieve during construction, one or more of the following measures shall be implemented to prevent flooding of adjacen served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall 1. Directions to the owner or occupant that the manual shall remain with the building throughout the property, prevent erosion and retain soil runoff on the site. have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical life cycle of the structure. capacity to the required EV capable spaces. 4.303.1.4.5 Pre-rinse spray valves. 2. Operation and maintenance instructions for the following: 1. Retention basins of sufficient size shall be utilized to retain storm water on the site. When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance a. Equipment and appliances, including water-saving devices and systems, HVAC systems, 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar 4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 photovoltaic systems, electric vehicle chargers, water-heating systems and other major Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1 disposal method, water shall be filtered by use of a barrier system, wattle or other method approved (d)(7) and shall be equipped with an integral automatic shutoff. appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. 3. Compliance with a lawfully enacted storm water management ordinance. Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Space conditioning systems, including condensers and air filters. shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section Landscape irrigation systems. **Note:** Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or requirements. e. Water reuse systems. are part of a larger common plan of development which in total disturbs one acre or more of soil. 3. Information from local utility, water and waste recovery providers on methods to further reduce 4.106.4.2.2.1.1 Location. resource consumption, including recycle programs and locations. (Website: https://www.waterboards.ca.gov/water\_issues/programs/stormwater/construction.html) EVCS shall comply with at least one of the following options: TABLE H-2 Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent I.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will 1.The charging space shall be located adjacent to an accessible parking space meeting the requirements of and what methods an occupant may use to maintain the relative humidity level in that range. manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY 6. Information about water-conserving landscape and irrigation design and controllers which conserve water include, but are not limited to, the following: VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 2. The charging space shall be located on an accessible route, as defined in the California Building Code, 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 1. Swales Chapter 2, to the building. feet away from the foundation. 2. Water collection and disposal systems PRODUCT CLASS 8. Information on required routine maintenance measures, including, but not limited to, caulking, Exception: Electric vehicle charging stations designed and constructed in compliance with the California MAXIMUM FLOW RATE (gpm) French drains [spray force in ounce force (ozf)] painting, grading around the building, etc. Water retention gardens Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section Information about state solar energy and incentive programs available. 5. Other water measures which keep surface water away from buildings and aid in groundwater 4.106.4.2.2.1.2, Item 3. Product Class 1 (≤ 5.0 ozf) 10. A copy of all special inspections verifications required by the enforcing agency or this code. 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions. space around residential structures. **Exception**: Additions and alterations not altering the drainage path. The charging spaces shall be designed to comply with the following: Product Class 2 (> 5.0 ozf and  $\leq$  8.0 ozf) 1.20 12. Information and/or drawings identifying the location of grab bar reinforcements. Product Class 3 (> 8.0 ozf) 1.28 **4.106.4 Electric vehicle (EV) charging for new construction.** New construction shall comply with Sections 1. The minimum length of each EV space shall be 18 feet (5486 mm). 4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 2. The minimum width of each EV space shall be 9 feet (2743 mm). 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)] depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling Exceptions: 3.One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial ordinance, if more restrictive. 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is buildings infrastructure are not feasible based upon one or more of the following conditions: 12 feet (3658 mm). Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate California Plumbing Code. 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of a.Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional **4.303.3 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in local utility infrastructure design requirements, directly related to the implementation of Section accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 4.106.4.2.2.1.3 Accessible EV spaces. 4.106.4, may adversely impact the construction cost of the project. 1701.1 of the California Plumbing Code. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall DIVISION 4.5 ENVIRONMENTAL QUALITY comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready parking facilities. spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section **SECTION 4.501 GENERAL** THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. 4.501.1 Scope 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway 4.106.4.2.3 EV space requirements. TABLE - MAXIMUM FIXTURE WATER USE irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors. shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main 1.Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the FIXTURE TYPE FLOW RATE **SECTION 4.502 DEFINITIONS** proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close 5.102.1 DEFINITIONS concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere proximity to the location or the proposed location of the EV space. Construction documents shall identify the SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI The following terms are defined in Chapter 2 (and are included here for reference) 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit raceway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall overcurrent protective device. have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device **AGRIFIBER PRODUCTS.** Agrifiber products include wheatboard, strawboard, panel substrates and door MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device. LAVATORY FAUCETS (RESIDENTIAL) cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements. Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is LAVATORY FAUCETS IN COMMON & PUBLIC **COMPOSITE WOOD PRODUCTS.** Composite wood products include hardwood plywood, particleboard and accordance with the California Electrical Code. installed in close proximity to the location or the proposed location of the EV space, at the time of original 0.5 GPM @ 60 PSI medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, USE AREAS construction in accordance with the California Electrical Code. structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent 1.8 GPM @ 60 PSI KITCHEN FAUCETS wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 2. Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination METERING FAUCETS 0.2 GAL/CYCLE location shall be permanently and visibly marked as "EV CAPABLE". location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for WATER CLOSET 1.28 GAL/FLUSH electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

URINALS

0.125 GAL/FLUSH

raceways and related components that are planned to be installed underground, enclosed, inaccessible or in

concealed areas and spaces shall be installed at the time of original construction.



## California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

			AIURT MEASURES, S			= (January 2020)		RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)
Y N/A RESPO	ON.	Y N/A RESPON. PARTY		YN	RESPON. PARTY		Y N/A RESPOI	DN. Y
N/A RESPONDED TO THE PARTY OF T		Y N/A RESPON. PARTY	TABLE 4.504.2 - SEALANT VOC LIMIT  [Lioss Water and Less Exempt Compounds in Grams per Liber*)  SEALANTS  ARCHITECTURAL  ARCHITECTURAL  ARCHITECTURAL  ARCHITECTURAL  FOR DAMPINERS  ROADWAY  SINGLE-FLY ROOF MEMBRANE  ACTOR ARCHITECTURAL  NON-POROUS  POROUS  POROUS  ARCHITECTURAL  NON-POROUS  POROUS  T75  MODIFIED BITUMINOUS  500  MARINE DECK  T60  OTHER  TABLE 4.504.3 - VOC CONTENT LIMITS FOR  ARCHITECTURAL  NON-POROUS  POROUS  T75  MODIFIED BITUMINOUS  500  MARINE DECK  T60  OTHER  TABLE 4.504.3 - VOC CONTENT LIMITS FOR  ARCHITECTURAL COATINGS  GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS  COATING CATEGORY  VOC LIMIT  FLAT COATINGS  NON-FLAT COATINGS  NON-FLAT COATINGS  ALUMINUM ROOF COATINGS  BITUMINOUS ROOF PRIMERS  ALUMINUM ROOF COATINGS  BITUMINOUS ROOF PRIMERS  BOOD BERGAKERS  SOO  BOND BERGAKERS  SOO  CONCRETE CURRING COMPOUNDS  CONCRETE CURRING COATINGS  FAUX FINISHING COATINGS  FAUX FINISHING COATINGS  FAUX FINISHING COATINGS  FOR		MA RESPON. PARTY  IMA  IMA  IMA  IMA  IMA  IMA  IMA  IM	TABLE 4.504.5 - FORMALDEHYDE LIMITS.  MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION PRODUCT  CURRENT LIMIT HARDWOOD PLYWOOD VENEET CORE 1.05 HARDWOOD PLANT PIBERBOARD 1.15 HARDWO	Y N/A RESPON	OWNER, CONTRACTOR, INSPECTOR ETC.)
	coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.  4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 9452(a)(1) and (f)(1) of California Code of Regutations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.  4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:  1. Manufacturer's product specification. 2. Field verification of on-site product containers.  TABLE 4.504.1 - ADHESIVE VOC LIMIT <sub>1,2</sub> (Less Water and Less Exempt Compounds in Grams per Liter)  ARCHITECTURAL APPLICATIONS  VOC LIMIT  INDOOR CARPET ADHESIVES  CARPET PAD ADHESIVES  OUTDOOR CARPET ADHESIVES  OUTDOOR CARPET ADHESIVES  OUTDOOR CARPET ADHESIVES  150  WOOD FLOORING ADHESIVES  100  RUBBER FLOOR ADHESIVES  CERAMIC TILE ADHESIVES  OUTDOOR CARPET ADHESIVES		CONCRETE CURING COMPOUNDS         350           CONCRETE/MASONRY SEALERS         100           DRIVEWAY SEALERS         50           DRY FOG COATINGS         150           FAUX FINISHING COATINGS         350           FIRE RESISTIVE COATINGS         350           FICOR COATINGS         100           FORM-RELEASE COMPOUNDS         250           GRAPHIC ARTS COATINGS (SIGN PAINTS)         500           HIGH TEMPERATURE COATINGS         420           INDUSTRIAL MAINTENANCE COATINGS         420           INDUSTRIAL MAINTENANCE COATINGS         450           MASTIC TEXTURE COATINGS         450           MASTIC TEXTURE COATINGS         100           METALLIC PIGMENTED COATINGS         500           MULTICOLOR COATINGS         250           PRETREATMENT WASH PRIMERS         420           PRIMERS, SEALERS, & UNDERCOATERS         100           REACTIVE PENETRATING SEALERS         350           RECYCLED COATINGS         250           ROOF COATINGS         250           SHELLACS         50           CLEAR         730           OPAQUE         550           SPECIALTY PRIMERS, SEALERS & 100         100           STAINS         250			composite wood products used on the interior or exterior of the buildings 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 Table 4.504.5  4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:  1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. 5. Other methods acceptable to the enforcing agency.  4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.  4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:  1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-O6. 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of w		

Brian B. Miller Design
735 State Street, Suite 218
Santa Barbara, California 93101
Phn(805)407-9001
email: muddbilt@comcast.net

0.703 These drawings are not to be remoduced or chanced in

REVISIONS

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<u>M</u>

DATE: 9/30/2023 JOB No:

#23077 (GriffithADU)

T.1

o**₽** 10

**Parallel Piping** 

Not Required

Cooling Unit

Name

Heat Pump

System 1

HSPF2 /

COP

04

erified EER/EER2

Efficiency

HSPF

Heating

Equipment

Count

Units

03

Pipe Insulation

Not Required

Heating Unit

Name

Heat Pump

System 1

**Project Name:** GRIFFITH ADU

DHW Sys 1 - 1/1

(E) HEAT

PUMP1

**HVAC - HEAT PUMPS** 

System 1

01

Registration Number:

SPACE CONDITIONING SYSTEMS

Heat pump

cooling

**HVAC HEAT PUMPS - HERS VERIFICATION** 

System Type

Ductless MiniSpli

**Verified Airflow** 

Calculation Description: Title 24 Analysis

WATER HEATING - HERS VERIFICATION

CF1R-PRF-01E

Recovery

Not Required

**HERS Verification** 

Heat Pump System

1-hers-htpump

Verified Heating

Cap 17

CalCERTS inc.

xisting HVA

System

Verified

Existing

Condition

Calculation Date/Time: 2023-10-13T19:15:19-07:00 (Page 7 of 9) **Input File Name:** GRIFFITH ADU.ribd22x

n/a

EER /

CEER

Controlled

Not Zonal

HSPF/HSPF2

Not Required

Existing

Cap 47

Report Generated: 2023-10-13 19:15:43

**HERS Provider:** 

Compact Distribution

Type

Distribution

Name

SEER /

SEER2

06

Charge

2023-10-24 15:19:26

**Compact Distribution** 

Not Required

Fan Name

n/a

Type

EERSEER

Cooling

Count

Cap 47

18000

SEER/SEER2

Registration Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220901

Calculation Date/Time: 2023-10-13T19:15:19-07:00 Project Name: GRIFFITH ADU Input File Name: GRIFFITH ADU.ribd22x Calculation Description: Title 24 Analysis

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01E (Page 8 of 9)

INDOOR AIR QUALIT	Y (IAQ) FANS							
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
SFam ADU IAQVentRpt	31	0.35	Exhaust	No	n/a / n/a	No	Yes	

Registration Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220901

2023-10-24 15:19:26

**CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD** Project Name: GRIFFITH ADU Calculation Description: Title 24 Analysis

I certify that this Certificate of Compliance documentation is accurate and complete.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

RESPONSIBLE PERSON'S DECLARATION STATEMENT

David Inger

Inger Associates

620 Chelham Way

Montecito, CA 93108

Responsible Designer Name:

Brian B. Miller Designs

1115 Coast Village Rd

Montecito, CA 93108

Brian B Miller

Calculation Date/Time: 2023-10-13T19:15:19-07:00 Input File Name: GRIFFITH ADU.ribd22x

EA/ HERS Certification Identification (If applicable)

ignature Date:

805-969-1881

I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets,

2023-10-13 19:20:30

Responsible Designer Signature

2023-10-24 15:19:26

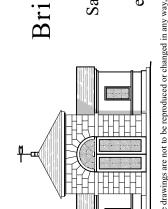
805-407-9001

David Inger

Brian B Miller

CF1R-PRF-01E (Page 9 of 9)

er Suit



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HERS Provider:

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.

Registration Number: 223-P016599963B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-10-24 15:19:26 Report Version: 2022.0.000 Schema Version: rev 20220901

CalCERTS inc. Report Generated: 2023-10-13 19:15:43

CA Building Energy Efficiency Standards - 2022 Residential Compliance

223-P016599963B-000-000-0000000-0000

§150.0(k)2E: AUTOMATIC OFF CONTROLS

IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS, AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF |FUNCTIONALITY.

FOR LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS, CONTROLS THAT TURN LIGHT OFF WHEN THE DRAWER OR DOOR IS CLOSED SHALL BE PROVIDED.

§150.0(k)2F: DIMMING CONTROLS

LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS, AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY ADJUSTED UP AND DOWN. FORWARD PHASE CUT DIMMERS CONTROLLING LED LIGHT SOURCES IN THESE SPACES SHALL COMPLY WITH NEMA SSL 7A.

§150.0(k)2G: INDEPENDENT CONTROLS

INTEGRATED LIGHTING OF EXHAUST FANS SHALL BE CONTROLLED INDEPENDENTLY FROM THE FANS. UNDERCABINET AND UNDERSHELF LIGHTING. INTERIOR LIGHTING OF DISPLAY CABINETS. AND SWITCHED OUTLETS SHALL BE CONTROLLED SEPARATELY FROM CEILING-INSTALLED LIGHTING SUCH THAT ONE CAN BE TURNED ON WITHOUT TURNING ON THE OTHER.

§150.0(k)3: RESIDENTIAL OUTDOOR LIGHTING

OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING, OR TO OTHER BUILDINGS ON THE SAME LOT, MUST MEET THE EFFICIENCY REQUIREMENTS OF \$150.0(k)1A AND BOTH OF THE FOLLOWING:

- A MANUAL ON/OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF THE FOLLOWING: EITHER A OR B:
- A. A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL. B. AN ASTRONOMICAL TIME SWITCH CONTROL.

§150.0(k)4: INTERNALLY ILLUMINATED ADDRESS SIGNS

INTERNALLY ILLUMINATED ADDRESS SIGNS SHALL EITHER COMPLY WITH SECTION 140.8, OR CONSUME NO MORE THAN 5 WATTS OF POWER.

§150.0(k)5: RESIDENTIAL GARAGES FOR EIGHT OR MORE VEHICLES

LIGHTING FOR RESIDENTIAL PARKING GARAGES FOR EIGHT OR MORE VEHICLES MUST COMPLY WITH THE APPLICABLE REQUIREMENTS FOR NONRESIDENTIAL GARAGES IN §110.9, §130.0, §130.1, §130.4, §140.6 AND §141.0.

2022 Single-family Residential Energy Standards Compliance (Title 24, Part 6)

223-P016599963B-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Lighting Mandatory Measures:

Registration Number:

§110.9: LIGHTING CONTROLS AND COMPONENTS ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES MUST MEET THE APPLICABLE REQUIREMENTS OF §110.9.

§150.0(k)1A: LUMINAIRE EFFICACY

ALL INSTALLED LUMINAIRES MUST MEET THE CLASSIFICATION OF HIGH LUMINOUS EFFICACY LIGHT SOURCES REQUIREMENTS LISTED IN TABLE 150.0-A.

§150.0(k)1B: SCREW BASED LUMINAIRES SCREW BASED LUMINAIRES MUST CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8.

§150.0(k)1C: RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS

LUMINAIRES RECESSED INTO CEILINGS MUST MEET ALL OF THE REQUIREMENTS FOR AIR LEAKAGE; SEALING; SHALL NOT CONTAIN SCREW BASE LAMP SOCKETS; AND CLEARANCE AND INSTALLATION REQUIREMENTS PER THE

CALIFORNIA ELECTRICAL CODE §410.116.

§150.0(k)1D: LIGHT SOURCES IN ENCLOSED OR RECESSED LUMINAIRES LAMPS AND OTHER SEPARABLE LIGHT SOURCES THAT ARE NOT COMPLIANT WITH THE JA8 ELEVATED TEMPERATURE REQUIREMENTS, INCLUDING MARKING REQUIREMENTS, SHALL NOT BE INSTALLED IN ENCLOSED OR RECESSED LUMINAIRES.

§150.0(k)1E: BLANK ELECTRICAL BOXES

THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN FIVE FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE MUST BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, LOW VOLTAGE WIRING OR FAN SPEED CONTROL.

§150.0(k)2A: INDOOR LIGHTING CONTROLS

LIGHTING SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY TURNED ON AND OFF.

§150.0(k)2B: BYPASS CONTROLS

NO CONTROLS SHALL BYPASS A DIMMER, OCCUPANT SENSOR OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR SENSOR HAS BEEN INSTALLED TO COMPLY WITH §150.0(k).

§150.0(k)2D: PROGRAMMABLE CONTROLS

AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) OR A MULTISCENE PROGRAMMABLE CONTROL MAY BE USED TO COMPLY WITH DIMMING, OCCUPANCY, AND LIGHTING CONTROL REQUIREMENTS IN SECTION 150.0(k)2 IF IT PROVIDES THE FUNCTIONALITY OF THE SPECIFIED CONTROLS IN ACCORDANCE WITH SECTION 110.9, AND THE PHYSICAL CONTROLS SPECIFIED IN §150.0(k)2A.

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## 2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.

CalCERTS inc.

(04/2022)	
Building Envelor	De:
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.*
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling. *
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	<b>Wall Insulation.</b> Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.

2022 Title 24, Port 6 - Single-family Mendutory Measures Note Blocks

2022 Title 24, Port 6 - Single-family Mendetory Measures Note Blocks

DATE: 9/30/2023 JOB No:

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