



RESIDENTIAL ELECTRICAL PLAN SUBMITTAL REQUIREMENTS

GENERAL REQUIREMENTS:

- Plans drawn or prepared by licensed design professional must be stamped at submittal and wet-signed before the permit can be issued.
- Construction Best Management Practices must be imprinted on plan. To access the standard plan, please visit: <http://www.flowstobay.org/construction>.
- All construction and demolition debris shall be contained on-site (not on the public right-of-way) in constantly covered bins which include adequate service to ensure containment. At a minimum, 65% of the project waste stream shall be recycled; prior to final project approval and occupancy, a receipt shall be provided verifying 65% recycling has occurred. An authorized hauler shall be utilized for this mandatory requirement. Clearly show this requirement on the submitted plans.

SUBMIT:

- One (1) properly completed permit application.
- A digital set of building plans (1/4"-1' scale, 11" X 17" size min. 36" X 48" size max.).
- A digital copy of each of the following documents (if applicable):
 - Equipment Specifications
 - Title 24 Energy Compliance

PLANS SHALL CONSIST OF:

- Cover Sheet:**
 - Project address.
 - Square footage of removed finishes
 - Detailed project scope
 - Note on plan: Project to comply with the 2022 CBC, 2022 CEC, 2022 CMC, 2022 CPC, 2022 CA Energy Code, 2022 CA Green Building Standards Code, East Palo Alto Municipal Code.
 - Location map.
 - Type of construction (V-B).
 - Occupancy classification (R-3).
- Electrical Sheets:**
 - Provide an existing floor plan; and a proposed floor plan (clearly show all new work proposed).
 - Show location(s) of all new lights and switches.
 - Clearly distinguish, on plan, between the new and existing work to remain.
 - Show location(s) of all new electrical equipment (fans, disconnects etc.).

GENERAL ELECTRICAL REQUIREMENTS:

- Bathrooms:**
 - 15-or 20-amp circuit required for lighting and receptacle outlets. 210.52 & 210.23(A)
 - Fans with built-in heaters require a dedicated 30-amp circuit. 424.3(A)
 - All receptacles must have GFCI protection. 210.8(A)(1)

Bathrooms requirements continued.

- Light fixtures in shower or bath area must be rated for damp locations. Light fixtures subject to spray must be rated for wet locations. 410.10(A)

Kitchen:

- Two 20-amp 120 volt “small appliance” circuits are required. 210.52(B)(1)
- Dishwasher/dispenser requires dedicated 120-volt circuit. Dishwasher and disposer must have GFCI protection. 210.8(D)
- Countertop receptacle must be spaced no more than 4 feet apart and within 24 inches of the end of counter space; installed at each wall and work surface that is 12 inches or wider 210.52(C)(1) See **EXAMPLE A.**
- Lighting must be supplied by a separate 15-amp (minimum) circuit. 210.23(A)
- Electric range/oven requires a dedicated 120/240-volt circuit. 210.21(B)(4)
- Refrigerator and microwave each require a dedicated 20-amp 120-volt circuit. 210.63
- All countertop receptacles and any receptacle within 6 feet of sink must be GFCI protected. 210.8(A)(7)
- AFCI protection is required at kitchen outlets. 210.12(A)

Living Room, Dining Room, and Bedrooms:

- Wall switch required in proximity of entry door to bedroom. Switch can control either ceiling fan, a wall light, or a switch controlled receptacle. 210.70(1)
- Wall receptacles must be spaced 12 foot max., and any wall wider than 2 feet must have a receptacle, see **EXAMPLE B.** 210.52(A)
- Dining rooms require a separate single phase 15 and 20-amp circuit. 210.12. (A)
- AFCI protection is required at living room, dining room and bedroom outlets. 210.12(2)

Stairways and Hallways:

- Three-way switches are required at the top and bottom of each flight of stairs. 210.70 (a) & CRC R 303.7
- Hallways over 10 feet long require an outlet. 210.52(H)
- Additional light fixture may be needed at stair landing. 210.70.(2)
- At least one wall switch is required at hallways. 210.70(a)

Closets and Laundry Rooms:

- Closet light bulbs must be enclosed with a cover and must be no less than 12 inches from storage shelving (6 inches min. for recessed fixtures). 410.16.(C) See **EXAMPLE C.**
- All surface-mounted fixtures must be on the ceiling or wall above the door. 410.16. (C)
- One 20-amp circuit is required within laundry room. 210.8.(A)(10)
- All laundry receptacles are required to be GFCI protected. 210.8.(A)
- Electric dryer must have a dedicated 30-amp, 240-volt circuit. Per manufacturer installation recommendation.

Garage and Exterior Building:

- Garage must have at least one switch controlled light. 210.70
- Garage must have one receptacle outlet, including one for each car space. 210.52(G)(1)
- At least one outdoor receptacle. 210.52.(E)
- All garage receptacles, including the garage door receptacle, must be GFCI protected. 210.8.(A)(2)
- At least one readily accessible outdoor receptacle outlet must be installed on front and back of the dwelling, not more than 6 ½ foot above grade level. 210.52.(E)(1)(2)

