



# City of East Palo Alto

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## Community & Economic Development Department Building Division

### **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.
- Four (4) sets of building plans (1/4"-1" scale, 11" X 17" size min. 36" X 48" size max.).
- Two (2) copies 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 2016 CBC, 2016 CEC, 2016 CMC, 2016 CPC, 2016 CA Energy Code, 2016 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/disposer 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)

### **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)

### **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)

### **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)

### **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)

- At least one 120-volt receptacle is required within 3 feet of outside edge of sink. Dual sinks may be served by a single receptacle between them. 210.52.(D)

- 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)

- 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)

- Additional light fixture may be needed at stair landing. 210.70.(2)
- At least one wall switch is required at hallways. 210.70(a)

- 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.

- 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)

