



# RESIDENTIAL KITCHEN REMODEL/ALTERATON

**BUILDING DIVISION**

## Electrical

**Receptacles shall meet all of the following requirements: (California Electrical Code (CEC) 210.8, 210.12, 210.23, 210.52, 406.12, 422.16.**

- Ground Fault Circuit Interrupter (GFCI) protection shall be provided for all countertop receptacles, receptacles within 6-feet of a sink (including below counter and behind an appliance), and for receptacles supplying dishwashers. The reset button for GFCI receptacles shall be installed in an accessible location (not behind an appliance).
- All outlets and devices (i.e., receptacles, lighting, hoods, etc.) in the kitchen shall be Arc-Fault Circuit Interrupter (AFCI) protected and Tamper-Resistant (TR).
- Receptacles shall be provided at all countertop areas with a minimum dimension of 12 inches.
- Countertop receptacles shall be located so that no point along the wall is more than 24 inches from a receptacle, (no more than 4-feet from one receptacle to the other).
- Countertop receptacles shall be located no more than 20 inches above the countertop.
- Islands/peninsulas shall have at least one receptacle mounted not more than 12 inches below the countertop and where the countertop does not extend more than 6 inches beyond its base.
- Electric stoves and ovens shall be supplied with a 40- or 50- amp branch circuit.
- Garbage disposal cord and plug connected with a flexible cord between 18 to 36-inches long. CEC 422.16 (B)(1).
- The dishwasher cord must not exceed 6.5 feet in length, and the receptacle must be accessibly located in the space adjacent to the dishwasher (not behind the unit) CEC 422.16 (B)(2).

**Kitchen receptacles shall be supplied by circuits meeting all the following requirements: CEC 210**

- Countertop receptacles shall be supplied by a minimum of two 20-amp branch circuits.
- A dedicated circuit is required for cord and plug connected range exhaust hoods. Separate circuits may be required for the garbage disposal, dishwasher, and built-in microwave based on the manufacturer's requirements and the motor rating.
- Any new receptacles added in the dining area, breakfast room, pantry, or similar area shall be supplied by a 20-amp circuit; the countertop circuits may be used to supply these areas.
- The existing electrical panel may need to be upgraded, or a sub-panel added, if the requirements above cannot be accommodated.

## Lighting

- All installed luminaries shall be of high efficacy type.
- Under cabinet lighting shall be on a separate switch from any other lighting.



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- Recessed lighting shall be listed as IC (zero clearance to insulation) and AT (airtight), be sealed/caulked between the fixture housing and ceiling, shall not contain a screw base socket, and contain bulbs marked with JA8-2019-E efficiency label.

### Mechanical

- Cooktop exhaust ducts shall have a metal, smooth interior surface, terminate outside the building, provide a minimum of 100 CFM, and be equipped with a backdraft damper. Aluminum flex duct is not approved.
- Minimum 30 inches of clearance is required above the kitchen range, except where 24 inches is allowed per code or the manufacturer's listing. CMC 920.3.2.

### Plumbing

- On the discharge side of the dishwasher, provide a listed air gap fitting. Listed air gaps shall be installed with the flood level (FL) marking at or above the flood level of the sink or drain board whichever is higher. CPC 807.3.
- Kitchen sink faucets shall not have a flow rate greater than 1.8 GPM.
- If new gas piping is installed, a pressure test may need to be performed on the new piping.

### General

- Kitchens shall have a clear passageway of not less than 3-feet between counter fronts and appliances or counter fronts and walls.
- Exterior windows/doors added and/or replaced as part of the remodeling project shall be clearly identified on the plans and shall have a fenestration U-Factor of .32 or greater, and Solar Heat Gain Coefficient SHGC of 0.25 or less. California Energy Code (CEnc) Table 150.1-A. All window NFRC labels shall remain in place for inspection prior to being removed.

Note: For illustration purpose only

