



# CITY OF MONTE SERENO

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## RESIDENTIAL ELECTRICAL VEHICLE CHARGER INSTALLATION

### BUILDING DIVISION REQUIREMENTS

An electrical permit is required for the installation of electrical vehicle charging circuits and equipment. Following is a listing of the general requirements for electrical vehicle charging circuits and equipment based on the 2022 California Electrical Code. This brochure is intended to provide general information, contact the Building Department for any questions or additional information.

#### General Installation Requirements

- The electric vehicle charging system shall be listed by a nationally recognized testing laboratory (i.e., UL) in compliance with UL 2202 “Standard for Electric Vehicle (EV) Charging System Equipment.” (CEC 90.7)
- The electric vehicle charging system shall be installed in accordance with manufacturer’s guideline and shall be suitable for the environment (indoor/outdoor). If installed indoors, the charging station shall be labeled “Ventilation Not Required” in a location clearly visible after installation. (CEC 625.15)
- Provide size of the existing electrical panel, existing load on the panel, and proposed load/circuits from the electric vehicle charging system in order to determine if there is adequate capacity in the existing panel. (CEC 220)
- If installed indoors, the electric vehicle charging coupling (the nozzle) shall be located between 18” and 48” above the finished floor. If installed outdoors, the electric vehicle charging coupling (the nozzle) shall be located between 24” and 48” above the finished grade. (CEC 625.50, 625.52)
- If the electric vehicle charging equipment is located in an area subject to vehicular damage, an adequate barrier must be installed (e.g. 4” diameter steel pipe filled with concrete, a minimum of 40” above the finished floor/grade, installed in a footing measuring 12” in diameter and 3’ deep). (CEC 110.27)

#### Smoke and Carbon Monoxide Alarms (CBC 907.2.11.1, CRC R314 and R315)

Smoke alarms shall be installed on the ceiling or wall (between 4” and 12” of the ceiling) in all sleeping rooms, each area/hallway adjacent to sleeping rooms, each story of the building, and in any basement. Smoke alarms shall be replaced 10 years after the date of manufacture listed on the alarm (if no date is listed the alarm shall be replaced). Newly installed smoke alarms shall have a 10-year battery.

Carbon monoxide (CO) alarms shall be installed on the ceiling or wall (above the door header) in each area/hallway adjacent to sleeping rooms, each occupiable story, and within a bedroom if the bedroom or attached bathroom contains a fuel-burning appliance. CO alarms are not required if there is no fuel-burning appliance or fireplace in the house and where the garage is detached from the house.

**PERMIT PROCESS**

**Building Permit Review**

1. Permit can be obtained online at <https://epermits.montesereno.org/> or at City Hall between 9am and 5pm Monday through Friday.

**Inspections**

2. One final inspection is required after all work is complete. A completed Smoke Alarm and Carbon Monoxide Alarm Certification Form shall be provided to the building inspector.

**Building Permit Application Requirements  
(3 copies of each item)**

- A completed Building Permit Application
- Electrical load calculations
- Floor plan showing the location of the charging equipment and all new or proposed electrical panels and sub-panels.
- Manufacturer’s installation instructions