



Electrical Vehicle Charging Systems

To install an electrical vehicle charging system, you will need to obtain an Electrical Permit.

Most standard EV Chargers are listed as Level 1 and Level 2:

Level 1 EV Chargers are smaller units that plug directly into a standard 120-volt receptacle outlet. These types of chargers typically require a longer period to recharge the vehicle. If the receptacle outlet being used to plug-in the Level 1 Charger is existing, there is no requirement to secure an electrical permit.

If you will be installing a new 120-volt receptacle outlet for the charger, you will need to obtain an electrical permit and inspection. Please complete our Permit Application and submit to Counter@cosb.org.

Level 2 EV charging system requires a 240-volt electrical circuit and charges the vehicle battery faster than a Level 1 charger. Level 2 charger installations typically require an electrical permit and inspections of the installation. Discuss with your EV manufacturer about the electrical requirements for the equipment to be installed at our home. In some cases, a Main Panel Upgrade or other work maybe required.

To obtain the permit, you need to provide basic information to show that your existing electrical service can handle the added load.

Please complete our Permit Application and submit with the following items to Counter@cosb.org :

1. Manufacturer specifications and installation guidelines
2. Electrical Load Calculation Worksheet
3. Site Plan
 - a. Property Address
 - b. APN
 - c. Property Owner Contact
 - d. Scope of Work
 - e. Location, size, and use of all structures
 - f. Location of electrical panel to charging system
 - i. Main Service Panel amperage
 - ii. Circuit breaker
 - g. Location and type of conduit connecting charger to panel

- h. Type of charging system and mounting
- i. Plans must be stamped/signed by a California Licensed Electrical Engineer OR a C-10 Electrical Contractor