

ELECTRIC VEHICLE CHARGER STATIONS GUIDE

MULTIFAMILY RESIDENTIAL DWELLINGS

SUBMITTAL REQUIREMENTS

A permit is required for Level 1 and Level 2 electric vehicle chargers and DC fast charging installation, which shall be obtained prior to the start of the work.

One electronic set of plans, digitally signed by the designer/architect, contractor, or homeowner responsible for preparing the plans. All plans submitted shall be a minimum plan size of 11" x 17" and **must be legible** to facilitate digital imaging as a permanent record after the project is completed.

Exterior modifications to buildings require Planning review and approval prior to submittal to the Building Division.

The following is a listing of the general code requirements based on the **2022** California Codes & Mountain View Municipal Code. This handout is intended to provide general information. If you have questions, please contact the Building Division at (650) 903-6313 or email us at building@mountainview.gov

BASIC CODE REQUIREMENTS

1. **CEC.** Show compliance on the plans with the current California Electrical Code.
2. **SITE PLAN.** Provide a site plan showing the location of:
 - a. Existing or proposed structure(s) for which the electric vehicle charger shall be affixed.
 - b. Parcel dimensions and outline.
 - c. Label street(s) frontage and access.
 - d. Location and size (amps) of main service panel and location and size (amps) of subpanel, (E) and proposed.
 - e. Location of electric vehicle charger.
 - f. Pathway for electrical connection to EV.
 - g. Show on the plans a complete and clear scope of work.
3. **ELECTRICAL PLAN.** Provide a single-line diagram showing the following items:
 - a. Existing or proposed main service panel size (amps) and panel schedule.
 - b. Dedicated circuit for electric vehicle charger.
 - c. Wiring method and sizing.
 - d. Grounding and disconnect.
 - e. All exterior electrical enclosures to be minimum 3R or similar.
4. **SYSTEM INFORMATION.** Provide manufacturers cut sheets and listing information for all components:
 - a. All UL-listed equipment.
5. **LOAD CALCULATIONS:** Provide the load calculation breakdown showing compliance with:
 - a. Design your project using CEC Article 625 and NEC 220
 - b. Overcurrent protection for feeders and branch circuits supplying equipment shall be sized for continuous duty and shall have a rating of not less than 125 % of the maximum load equipment.
 - c. For equipment rated more than 60 amperes or more than 150 volts to ground, the disconnecting means shall be provided and installed in a readily accessible location. The disconnecting means shall be lockable and open in accordance with 110.25.
6. **SERVICE DISCONNECTING.** Per section 8.51(D) of the MVCC the service disconnecting means for other than one family dwelling shall have a rating of not less than 125 amperes.
7. **TYPE OF CHARGING STATION.** Show on the plans the EV type (level 1, level 2, or DC fast charging) and the power level (proposed circuit rating).

8. **EV LOCATION.** Explain on the plans if the EV charging station will be installed in an assigned/dedicated parking space or in common areas and/or public housing facilities.
9. **EV ON A SHARED LOCATION.** If the EV charging station is in a shared parking location, not assigned or dedicated to tenants or owners, the EV must remain available to all tenants, owners, employees, and guests.
10. **DESIGN GUIDELINES.** The project shall comply with Mountain View City Code requirements and the CBC. Multifamily EV charger stations may be designed by an Architect/Engineer.
11. **ACCESSIBILITY COMPLIANCE.** Depending on the location of the EV installation, the project may comply with CBC, Chapter 11B.
12. **SIGNAGE.** Physical signage for identification may be required for EV equipment.
13. **DAMAGE PROTECTION.** Equipment subject to physical damage shall be protected by approved means. (CEC 110.27(B))
14. **RATED ASSEMBLIES:** If any rated assemblies will be penetrated as part of the charging station installation, please have the rated penetration details available on the plans.
15. **MVGBC:** Show compliance on the plans with the 2022 MVGBC and Reach Code worksheet, for new construction only.

OTHER RELATED HANDOUTS

- Smoke Detector & Carbon Monoxide requirements
- Self-Certification - Smoke & Carbon Monoxide Detectors