

CITY OF PALM SPRINGS

ELECTRICAL VEHICLE CHARGING EQUIPMENT

SUBMITTAL REQUIREMENTS

The following identified items are required prior to obtaining a permit for installation of Electrical Vehicle Charging Equipment.

1. A completed Electrical Charging Permit Application / Check List.
2. Three Copies of a site plan if the equipment is not located within a structure.
3. Three Copies of a floor plan showing the following information
 - a) Location of Charging Equipment.
 - b) Location of Existing and any new Mains or Sub Panels for the Charger.
 - c) Conductor size and location, including conduits and bollard protection.
 - d) Any Ventilation as may be required in the Manufacturer's Instructions or CEC.
4. Cut Sheets and Installation Manual (2) of all electrical equipment.
5. Single line Electrical Diagram for multiple Charging Station installations.
6. For simple residential type units, plans will be reviewed in house and over the counter.

General Code Guidelines

1. **General** – All Charging systems shall comply with the applicable sections of the California Electrical Code, including Article 625.
2. **Equipment Height** – The coupling means of the Supply Equipment shall be stored at a height of 18 to 48 inches above the finish floor. (CEC Art. 625(B)).
3. **Listed Equipment** – All Equipment must be listed by a nationally recognized testing laboratory (NRTL). (CEC 110)
4. **Fastened in Place** – Equipment must be permanently connected and fastened in place in accordance with the manufacturer's installation instructions (CEC Art. 625.13).
5. **Protection from Physical Damage** – Equipment must be protected against vehicle impact damage. (CEC Art. 110.27(B)).
6. **If More than 60 AMPS** – If the EV Charging Equipment is rated at more than 60 amps, the disconnect means shall be and installed in a readily accessible location and shall be capable of being locked on the open position. (CEC Art. 625.23)
7. **Accessibility** – For public use locations, height and reach limitations are listed in Chapter 11 of the CBC. 54 inches max to card readers or handles.
8. **Ventilation** – When installed in garages provide ventilation per CEC 625.29(D)

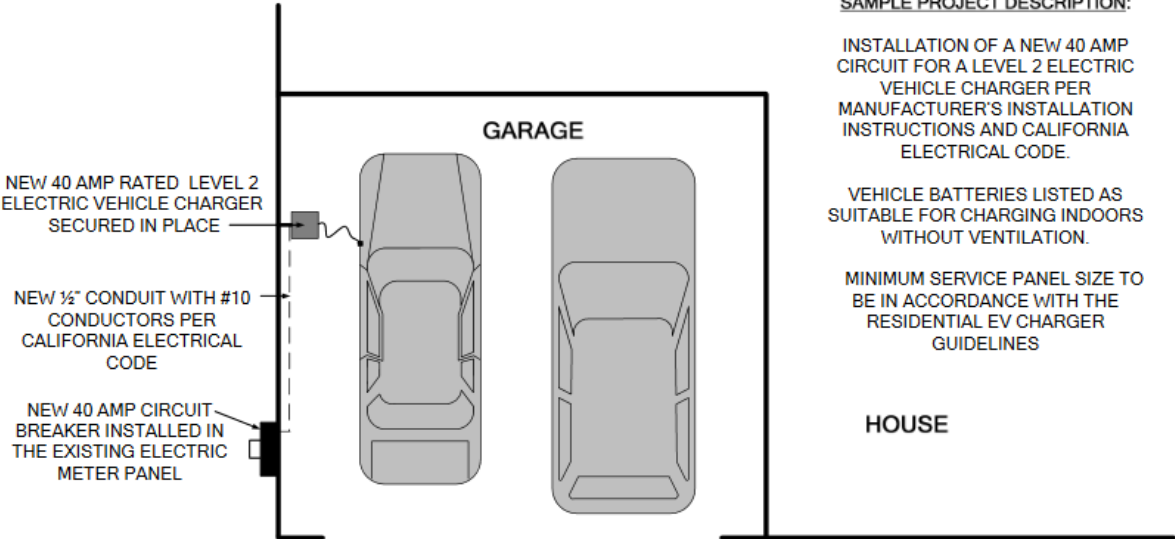
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Sample Garage Charging Detail

(Reference Only)

SAMPLE ELECTRICAL PLAN FOR LEVEL 2 ELECTRIC VEHICLE CHARGER CIRCUIT INSTALLATION



SAMPLE PROJECT DESCRIPTION:

INSTALLATION OF A NEW 40 AMP CIRCUIT FOR A LEVEL 2 ELECTRIC VEHICLE CHARGER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CALIFORNIA ELECTRICAL CODE.

VEHICLE BATTERIES LISTED AS SUITABLE FOR CHARGING INDOORS WITHOUT VENTILATION.

MINIMUM SERVICE PANEL SIZE TO BE IN ACCORDANCE WITH THE RESIDENTIAL EV CHARGER GUIDELINES

HOUSE