



BUILDING & SAFETY
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Submittal Requirements for Commercial, Industrial and Multifamily Electric Vehicle Charging Systems (EVCS)

FORM EVCS 2

SUBMITTAL REQUIREMENTS

For EVCS permit requirements for single-family and duplex dwellings, see **FORM EVCS 1**.

LEVELS OF EV CHARGING

Three levels of VAC or “Volts Alternating Current” are allowed in multifamily and commercial/industrial properties:

Level 1 - 120 VAC - This is regular household voltage. It can fully charge a depleted battery in six to 10 hours, depending on the vehicle model.

Level 2 - 240 VAC - This voltage is the type that supports clothes dryers. It can fully charge a depleted battery in three to eight hours, depending on the vehicle model.

Level 3 - 480 VAC or 208V three-phase - This is high voltage DC charging equipment that requires three-phase electric service. It can charge a depleted battery to roughly 80 percent of capacity in 30 minutes, depending on the vehicle model.

Before you install an electric vehicle charging system, you need to:

1. Prepare site, building, and electrical plans for submission. See table below for guidance.
2. Determine if the project will require a separate Planning approval.
 - Will the EVCS displace any existing landscaping?
 - Will the displaced landscaping be replaced?
 - Will the proposed EVCS reduce the number of parking spaces?
 - Will the location of the EVCS change the site circulation patterns?

If you answer “yes” to any of the above questions, please meet with a planner before applying for the building permit. The planner will advise you as to whether Planning approval will be required. Visit the City of Fontana web page at <http://www.fontana.org/> for additional information.

PLAN REQUIREMENTS

Draw plans to scale and identify proposed chargers with the word “proposed.” Include the following information on the plans:

SITE PLAN	<ul style="list-style-type: none"> • Building footprints and landscaped areas • Parking and circulation areas • Locations of any existing and all proposed EVC systems, panelboard, and any other service equipment
BUILDING PLAN	<ul style="list-style-type: none"> • Existing and proposed EVC systems and service equipment • All accessibility information associated with proposed EVCS; use the access compliance provisions approved for the California Building Codes.
ELECTRICAL PLAN	<p>This list shows key elements to abide by or include; it is not a detailed list of requirements for the Electrical Plan.</p> <ul style="list-style-type: none"> • Compliance with California Electrical Code and City of Fontana Municipal Code. • For electrical service panels affected by the addition of the charging systems, show: existing load, added load, and revised calculated load • Calculated load of chargers are considered continuous loads. Over current devices shall have a rating of not less than 125% of the maximum load.