## Residential and Non-Residential Checklist for Permitting Electric Vehicle Charging Stations (EVCS)

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Job Address:			Permit No.
□ Single-Family □ Commercial/Industrial	□ Duple □ Mixed		☐ Multiple-Family ☐ Public Right-of-Way
Location and Number of EVCS to be Installed:         Garage       Parking Level(s)         Parking Lot       Street Curb			
Description of Work:			
Applicant Name:			
Applicant Phone: Applicant Email:			
Contractor Name: License Number & Type	:		
Contractor Phone: Contractor Email:			
Owner Name:			
Owner Phone: Owner Email:			
Manufacturer of EVCS:			
EVCS Charging Level:			ting of EVCS:
□ Level 1 (120V) □ Level 2 (240V)			all Mount le/Pedestal Mount
□ Level 3 (480V)		□ Otł	
□ Level 4 (Supercharger)		Volta	ge EVCS = V
Max Rating (Nameplate)	of EV Serv	ice Equ	uipment = kW
System Voltage: □ 120/240V, 1¢, 3W	Rating of Existing Main Electrical Service      Equipment = Amperes		
□ 120/208V, 3φ, 4W □ 120/240V, 3φ, 4W	Rating of Panel Supplying EVCS (if not directly from Main Service) = Amps		
□ 277/480V, 3φ, 4W	Rating of Circuit for EVCS: Amps / Poles		
□ Other:	AIC Rating of EVCS Circuit Breaker (if not Single Family, 400A) = A.I.C.		



CITY OF BRISBANE Community Development Department 50 Park Place, Brisbane, CA 94005

Get an electrical permit before you install a Level 1, 2, 3, or 4 charging station.

See **BMC Chapter 15.84** for the requirements of electric vehicle infrastructure as part of new development.

#### DEFINITIONS

Levels of electrical current are called VAC or "Volts Alternating Current."

**Level 1 - 120 VAC** - Level 1 refers to using a standard house outlet to charge an EV.

**Level 2 - 240 VAC** - This voltage is the type that supports ovens and other large appliances.

**Level 3 - 480 VAC** - Also called DC fast chargers, these chargers use a 480 plug to provide direct current (DC) electricity to the battery. They are not allowed on residential properties.

**Level 4 - Supercharger** -This charging system is currently limited to Tesla vehicles. Tesla Corporation installs these chargers at commercial sites.

(continued)

Specify either:         □ Connected Load of existing panel supplying EVCS:       Amps         □ Calculated Load of existing panel supplying EVCS:       Amps         □ Documented Demand Load of existing panel supplying EVCS       Amps         (Provide Demand Load Reading from Electric Utility):       Amps				
Total Load (Existing plus EVCS Load) = Amps				
For Single Family Dwellings, if Existing Load is not known by any of the				
above methods, then the Calculated Load may be estimated using the				
"Single-Family Residential Permitting Application Example" in the				
Governor's Office of Planning and Research "Zero Emission Vehicles in				
California: Community Readiness Guidebook" https://www.opr.ca.gov				
EVCS Rating Amps x 1.25 = Amps =				
Minimum Ampacity of EVCS Conductor/Wire Size = # AWG				
For Single-Family:				
Size of Existing Service Size of Existing				
Supplying EVCS Panel = -OR- Feeder Conductors =				
# AWG or kcmil # AWG or kcmil				
I hereby acknowledge that the information presented is a true and correct representation of existing conditions at the job site and that any causes for concern as to life-safety verifications may require further substantiation of information.				
Signature of Permit Applicant:				
Date:				

#### Electrical Plan Requirements. Please include the following information:

1. Compliance with the 2019 California Electrical Code and Brisbane Municipal Code.

2. For electrical service panels affected by the addition of the charging stations, show: existing load, added load, and revised calculated load.

3. Calculated loads of chargers are considered continuous loads. The overcurrent device must have a rating of not less than 125% of the maximum load.

# Does your electric vehicle charging station installation require a permit from the Planning Department?

- Any charging station project that will modify existing landscaping, circulation, parking restriping, or other site work may need to get a permit from the Planning Division.
- For questions about building permits, codes, inspections or plan review, call (415) 508-2120 or visit the Community Development Department at 50 Park Place, Brisbane, CA 94005.
   <a href="https://www.brisbaneca.org/cd">https://www.brisbaneca.org/cd</a>

### Tips:

- 1. **Grading and Drainage** Do not alter existing stormwater treatment systems, including bioswales and retention basins, unless necessary; minimize any such alterations. Show any grading or drainage work on the site plan.
- 2. Landscaping Any displaced landscaping may be required to be restored or replaced. Avoid removing trees.
- 3. **Lighting** Show proposed lighting on the site plan.
- 4. **Parking** Provide the number of required and existing parking spaces on the site.
  - \* If the number of required parking spaces plus the number of EV charging stations to be installed is less than the number of existing parking spaces provided on the site, the EV charging stations may be signed as "EV Charging Station Only."
  - \* If the number of required parking spaces plus the number of EV Charging Stations to be installed exceeds the number of existing parking spaces provided on the site, the EV Charging Stations must be signed to allow either EV Charging or parking.
- 5. Accessibility Show compliance with California Building Code (2019) Chapter 11B-228.3 and 11B-812 for accessibility requirements and Chapter 11B, Table 11B-228.3.2.1 for minimum number of Accessible EV Charging Stations.
  - \* Alternative: If the installation of Accessible EV Charging Stations per CBC 11B-228.3 creates an unreasonable hardship or is technically infeasible, accessible stations may be installed at existing accessible parking spaces containing the International Symbol of Accessibility (ISA) on the site. When the number of accessible stations installed equals 100% of the existing Accessible Parking Spaces required by Chapter 11B - Table 11B-208.2, no accessible additional charging stations will be required on the existing parking facility.
- 6. Equipment Anchorage -Show required equipment support and anchorage.