

Electric Vehicle Supply Equipment (EVSE) Submittal Requirements for Commercial Projects

1. Application Documents:

- Building Permit Application Form CDD-0200
- Commitment letter from SMUD for new or upgraded services

2. Architectural Site Plan:

- Inclusive of project data, EVSE locations and quantities, accessible path of travel and associated details as required by the California Green Building Standards Code

3. EVSE plans inclusive of:

a. Electrical Plans:

- Electrical site plan
- EVSE layout and circuitry
- Equipment schedule and EVSE cut sheets
- Location of SMUD transformer, service equipment, panels, controllers, etc.
- EVSE subject to vehicle collision shall be protected from physical damage. Install a bollard on each side in front of the charger. Bollards shall be a minimum of 4" diameter, 2' below grade, and 4' above ground

b. Single line diagrams and plans:

- Main service size
- Size of service entrance conduit and conductors (include type)
- Size of any wireways or busways
- Size and type of all overcurrent protective devices
- Feeders (include size and type of conduit and conductors)
- AIC ratings (service, panel boards, etc.)
- All ground conductor sizes: UFER ground, supplemental ground, water and gas bonding
- Transformers, their size and type, transformer grounds

c. Load calculations:

- Complete NEC calculations based on square footage and actual loads (include 125% for continuous loads and add 25% of largest motor. Note: EVSE is considered as a continuous load)
- Complete Panel Schedule:
 - Voltage and ampere ratings
 - Phase and wire number (3 or 4 wire)
 - Breaker or fuse sizes
 - Main circuit breaker (M.C.B) or main lugs only (M.L.O.)
 - AIC rating (service, panel boards, etc.)
 - Loads of each circuit
 - Panel total load