City of SACRAMENTO
Community Development

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Sacramento, CA 95811

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CityofSacramento.org/dsd

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