

CALIFORNIA BUILDING STANDARDS COMMISSION
November 28, 2023
CALGREEN EV WORKSHOP #2
Agenda Item 2d

DRAFT EXPRESS TERMS
CALIFORNIA GREEN BUILDING STANDARDS CODE,
(CALGreen), PART 11,
CALIFORNIA BUILDING STANDARDS CODE,
TITLE 24, CALIFORNIA CODE OF REGULATIONS

If using assistive technology, please adjust your settings to recognize underline, strikeout and ellipsis.

LEGEND for EXPRESS TERMS

- Existing amendments appear upright
- Amendments appear underlined
- Repealed California language appears upright and in strikeout

SECTION 5.106, SITE DEVELOPMENT

AGENDA ITEM 2d

RATIONALE: BSC-CG is proposing to add two new code Sections 5.106.5.3.2.4.1 and 5.106.5.3.6.3 for Raceway Capacity Requirements. The proposal would allow for future proofing of existing low power level 2 receptacles with 208/240-volt 20 ampere branch circuits to be easily upgraded to a level 2 receptacles. This allows for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, a listed raceway shall be provided with the capability of accommodating a dedicated 208/240-volt 40-ampere branch circuit. This proposed amendment will align with HCD's current voluntary proposal during the 2024 Triennial Code Adoption Cycle found in code Section A4.106.8.2 New multifamily dwellings. While HCDs proposal is voluntary BSC is proposing it as mandatory. Minor edits were made post CEVW#1 workshop held on October 19, 2023. This proposed change also maintains consistency for both residential and nonresidential occupancies and provides clarity for the code users and the regulated community.

[Changes are shown in underline and/or strike-out for all code sections below]

Section 5.106 SITE DEVELOPMENT, Section 5.106.5.3

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide...
California Electrical Code. [No change to text.]

Exceptions: *[No change to text.]*

5.106.5.3.1 EV capable spaces. [N] EV capable spaces ... the following requirements: *[No change to text.]*

Note: *[No change to text.]*

5.106.5.3.2 Electric vehicle charging stations (EVCS). EV capable spaces...shall be provided. *[No change to text.]*

One EV charger...EV charger. *[No change to text.]*

5.106.5.3.2.1 Receptacle Configurations. *[See Item 4c]*

5.106.5.3.2.2 EV Charger Connectors. *[See Item 4c]*

5.106.5.3.2.4 3The installation of...panel or subpanel. *[No change to text.]*

5.106.5.3.2.2 4 The installation of two Low Power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.2.4.1 Raceway Capacity Requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.

5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted...multiple EVs. *[No change to text.]*

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, ...11B Section 11B-228.3. *[No change to text.]*

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle...Markings) or its successor(s).

TABLE 5.106.5.3.1 *[Not shown]*

1. Calculation...number
2. The number...column 2
3. At least...provided

5.106.5.3.6 Electric vehicle charging stations (EVCS)-Power allocation method.

The Power allocation... actual parking spaces. *[No change to text.]*

Power allocation method shall include the following:

1. Use...DCFC EVSEs.
2. At least...provided.

TABLE 5.106.5.3.6 *[Not shown]*

1. Level...minimum.
2. At...provided.
3. Maximum...percent.
4. If EV...spaces.

5.106.5.3.6.1 Receptacle Configurations. *[See Item 4c]*

5.106.5.3.6.2 EV Charger Connectors. *[See Item 4c]*

5.106.5.3.6.3 Raceway Capacity Requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.