

SECOND 45-DAY EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT (DSA-AC)

REGARDING PROPOSED CHANGES TO
THE CALIFORNIA BUILDING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2

2016 CALIFORNIA BUILDING CODE
TRIENNIAL CODE CYCLE

LEGEND FOR EXPRESS TERMS

1. Existing California amendments or code language being modified are in italics when they appear in the model code text: All such language appears in *italics*, modified language is underlined.
2. New California amendments: All such language appears underlined and in italics.
3. Repealed text: All such language appears in ~~strikeout~~.
4. New California amendments proposed in response to comments received during the initial 45 Day Public Comment Period: All such language appears double underlined, in italics and shaded.
5. Text proposed for repeal in response to comments received during the initial 45 Day Public Comment Period: All such language appears in ~~double strikeout, in italics and shaded~~.

SECOND 45-DAY EXPRESS TERMS

ITEM 11B.16

DIVISION 2: SCOPING REQUIREMENTS

11B-220 Automatic teller machines, fare machines and point-of-sale devices

11B-220.2 Point-of-sale devices. *Where point-of-sale devices are provided, all devices at each location shall comply with Sections (begin strikeout) 11B-309.4, (end strikeout) 11B-707.3, (begin strikeout) and (end strikeout) 11B-707.7.2, (begin underline) and 11B-707.9. (end underline) (begin strikeout) In addition, point-of-sale systems that include a video touch screen or any other non-tactile keypad shall comply with either Section 11B-707.9.1.1 or 11B-707.9.1.2. (end strikeout) Where point-of-sale devices are provided at check stands and sales and service counters (begin underline) required to comply with 11B-227.2 and 11B-227.3, (end underline) they shall comply with (begin strikeout) Section (end strikeout) (begin underline) Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9. (end underline) (begin strikeout) 11B-707.9.1, and shall also comply with Sections 11B-707.2, 11B-707.3 and 11B-707.4. (end strikeout)*

(begin double strikeout) ~~Exception:~~ (end double strikeout) (begin double underline) **Exceptions:**

1. (end double underline) *Where a single point-of-sale device is installed for use with any type of motor fuel, it shall comply with Sections (begin strikeout) 11B-220.2 and 11B-309 (end strikeout) (begin underline) 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9. (end underline) Where more than one point-of-sale device is installed for use with a specific type of motor fuel, a*

minimum of two for that type shall comply with Sections (begin strikeout) ~~11B-220.2 and 11B-309~~ (end strikeout) (begin underline) 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9. (end underline) Types of motor fuel include, but are not limited to, gasoline, diesel, compressed natural gas, methanol, (begin double underline) or (end double underline) ethanol (begin double strikeout) ~~or electricity.~~

2. *Point-of-sale devices at electric vehicle charging stations required to comply with Section 11B-812 shall comply with Section 11B-812.10.3.* (end double strikeout)

REASON: DSA-AC is proposing to further amend this item based on numerous comments received during the first 45-Day Public Comment Period. Commenters expressed concern that the proposed language of the exception conflicted with other proposed code changes regarding electric vehicle charging stations. In the existing exception, DSA-AC is proposing to eliminate “electricity” from the list of applicable types of motor fuel. A new second exception is proposed which directs code users to Section 11B-812.10.3, the applicable section for point-of-sale devices installed for use with electric vehicle charging stations required to comply with 11B-812.

ITEM 11B.20

CHAPTER 11B

DIVISION 2: SCOPING REQUIREMENTS

11B-233 Residential facilities.

11B-233.3 Additions.

WITHDRAWN

REASON: DSA-AC is withdrawing this item for further study based on comments received during the first 45-Day Public Comment Period.

ITEM 11B.21

DIVISION 2: SCOPING REQUIREMENTS

11B-233 Residential facilities.

11B-233.3 Public housing facilities. ...

11B-233.3.4 Alterations. Alterations to a public housing facility shall comply with Section 11B-233.3.4.

Exception: Where compliance with Section 11B-809.2, 11B-809.3, or 11B-809.4 (begin double underline) for units with mobility features or Chapter 11A, Division IV for units with adaptable features (end double underline) is technically infeasible, or where it is technically infeasible to provide an accessible route to a residential dwelling unit, the entity shall be permitted to alter or construct a comparable residential dwelling unit to comply with Sections 11B-809.2 through 11B-809.4 (begin double underline) or Chapter 11A, Division IV (end double underline) provided that the minimum number of residential dwelling units required by Sections 11B-233.3.1.1, (begin strikeout) (begin double underline) ~~11B-233.3.1.2~~ (end strikeout) (end double underline) and 11B-

233.3.1.3, as applicable, is satisfied. (begin underline) (begin double strikeout) ~~Providing residential dwelling units complying with Section 11B-233.3.1.1 shall take priority. When that number is satisfied additional units shall comply with Section 11B-233.3.1.2.~~ (end underline) (end double strikeout)

REASON: DSA-AC is withdrawing the previously proposed amendments to this section for further study based on comments received during the first 45-Day Public Comment Period. Additionally, DSA-AC is proposing an amendment to correct an inadvertent drafting error. Residential dwelling units with adaptable features are required to comply with Chapter 11A, Division IV rather than Sections 11B-809.2, 11B-809.3 or 11B-809.4. This section is being amended to correctly reference the applicable code sections.

ITEM 11B.22

CHAPTER 11B

DIVISION 2: SCOPING REQUIREMENTS

11B-233 Residential facilities.

11B-233.3.4.2 Alterations to individual residential dwelling units.

WITHDRAWN

REASON: DSA-AC is withdrawing this item for further study based on comments received during the first 45-Day Public Comment Period.

ITEM 11B.33

DIVISION 4: ACCESSIBLE ROUTES

11B-411 Destination-oriented elevators

11B-411.2 Elevator landing requirements. ...

11B-411.2.1 Hall call consoles. ...

11B-411.2.1.3 Arrangement. Hall call console arrangement of required features shall comply with Section 11B-411.2.1.3.

11B-411.2.1.3.1 Keypad call console arrangement. ...

11B-411.2.1.3.2 Touch screen call console arrangement. ...

11B-411.2.1.3.3 Proximity of required elements. ...

11B-411.2.1.3.4 Position. (begin double underline) Display screens and touch screens shall be positioned so glare is reduced on the screen. (end double underline) (begin strikeout) ~~The face of individual~~ (end strikeout) (begin underline) (begin double strikeout) ~~Individual~~ (end underline) ~~elements or group of individual elements that are operated by user input~~ (end double strikeout) (begin double underline) Keypads or buttons (end double underline) shall slope away from the user at 15 to 25 degrees from the vertical plane (begin underline) (begin double strikeout) ~~and shall be in compliance with 11B-307.~~ (end underline) (end double

strikeout) (begin strikeout) ~~The face of hall call console assemblies and the face of~~ (begin double underline) ~~touch screens shall be sloped away from the user at 7 to 25 degrees from the vertical plane.~~ (end strikeout) (end double underline) (begin double strikeout) ~~Display screens and touch screens shall be positioned so glare is reduced on the screen.~~ (end double strikeout)

REASON: DSA-AC is proposing to further amend this item based on a comment received during the first 45-Day Public Comment Period. The commenter was concerned the section, as proposed in the first 45-Day Express Terms, unnecessarily reduced flexibility in positioning touch screens to reduce glare, as required by the section. DSA-AC is proposing to further amend this section by:

- (1) restoring the provision requiring “touch screens shall be sloped away from the user at 7 to 25 degrees from the vertical plane”, which was inadvertently proposed for deletion in the first 45-Day Express Terms;
- (2) replacing the term “individual elements or group of individual elements that are operated by user input” with the more concise term “keypads or buttons”;
- (3) deleting the reference to 11B-307, added in the first 45-Day Express Terms, because Section 11B-204.1 requires compliance with Section 11B-307 on circulation paths, unless specifically exempted; and
- (4) restructuring the section to clarify the general intent of the provisions.

These amendments will provide clarity and consistency for code users.

ITEM 11B.51

DIVISION 8: SPECIAL ROOMS, SPACES, AND ELEMENTS

(begin underline) **11B-812 Electric vehicle charging stations**

11B-812.1 General. Electric vehicle charging stations (EVCS) shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of the markings.

Exception: Where vehicle spaces or access aisles are not adjacent to another vehicle space, access aisle, or parking space, measurements shall be permitted to include the full width of the line defining the vehicle space or access aisle.

11B-812.2 Operable parts. Operable parts shall comply with Section 11B-309.

11B-812.3 Floor or ground surfaces. Vehicle spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level, slopes exceeding 1:48, and detectable warnings shall not be permitted in vehicle spaces and access aisles.

11B-812.4 Vertical clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum. Where provided, overhead cable management systems shall not obstruct required vertical clearance.

11B-812.5 Accessible routes

11B-812.5.1 Accessible route to building or facility. *EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with Section 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.*

Exception: *EVCS complying with Section 11B-812 shall be permitted to be located in different EV charging facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, charging fee, and user convenience.*

11B-812.5.2 Accessible route to EV charger. *An accessible route complying with Section 11B-402 shall be provided between the vehicle space and the EV charger which serves it.*

11B-812.5.3 Relationship to accessible routes. *Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.*

11B-812.5.4 Arrangement. *Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge.*

Exceptions:

- 1. Ambulatory EVCS shall not be required to comply with Section 11B-812.5.4.*
- 2. Vehicle spaces installed in existing facilities shall comply with Section 11B-812.5.4 to the maximum extent feasible.*

11B-812.5.5 Obstructions. *EVCS shall be designed so accessible routes are not obstructed by cables or other elements.*

11B-812.6 Vehicle spaces. *Vehicle spaces serving van accessible, standard accessible, ambulatory and drive-up EVCS shall be 216 inches (5486 mm) long minimum and shall comply with Sections 11B-812.6.1 through 11B-812.6.4 as applicable. All vehicle spaces shall be marked to define their width.*

Exceptions:

- 1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of vehicle spaces shall be 240 inches (6096 mm) minimum.*
- 2. Vehicle spaces at drive-up EVCS shall be 240 inches (6096 mm) long minimum and shall not be required to be marked to define their width.*

11B-812.6.1 Van accessible. *Vehicle spaces serving van accessible EVCS shall be 144 inches (3658 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.*

11B-812.6.2 Standard accessible. *Vehicle spaces serving standard accessible EVCS shall be 108 inches (2743 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.*

11B-812.6.3 Ambulatory. *Vehicle spaces serving ambulatory EVCS shall be 120 inches (3048 mm) wide minimum and shall not be required to have an adjacent access aisle.*

11B-812.6.4 Drive-up. *Vehicle spaces serving drive-up EVCS shall be 204 inches (5182 mm) wide minimum and shall not be required to have an adjacent access aisle.*

11B-812.7 Access aisle. *Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches (1524 mm) wide minimum and shall extend the full required length of the vehicle spaces they serve.*

11B-812.7.1 Location. *Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located on the passenger side of the vehicle spaces.*

11B-812.7.2 Marking. *Access aisles at vehicle spaces shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a minimum of 36 inches (914 mm) on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue color required for identification of access aisles for accessible parking shall not be used. Access aisle markings may extend beyond the minimum required length.*

11B-812.7.3 Lettering. *The words "NO PARKING" shall be painted on the surface within each access aisle in letters a minimum of 12 inches (305 mm) in height and located to be visible from the adjacent vehicular way.*

11B-812.8 Identification signs. *EVCS identification signs shall be provided in compliance with Section 11B-812.8.*

11B-812.8.1 Four or fewer. *Where four or fewer total EVCS are provided, identification with an International Symbol of Accessibility (ISA) shall not be required.*

11B-812.8.2 Five to twenty-five. *Where five to twenty-five total EVCS are provided, one van accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1. The required standard accessible EVCS shall not be required to be identified with an ISA.*

11B-812.8.3 Twenty-six or more. *Where twenty-six or more total EVCS are provided, all required van accessible and all required standard accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1.*

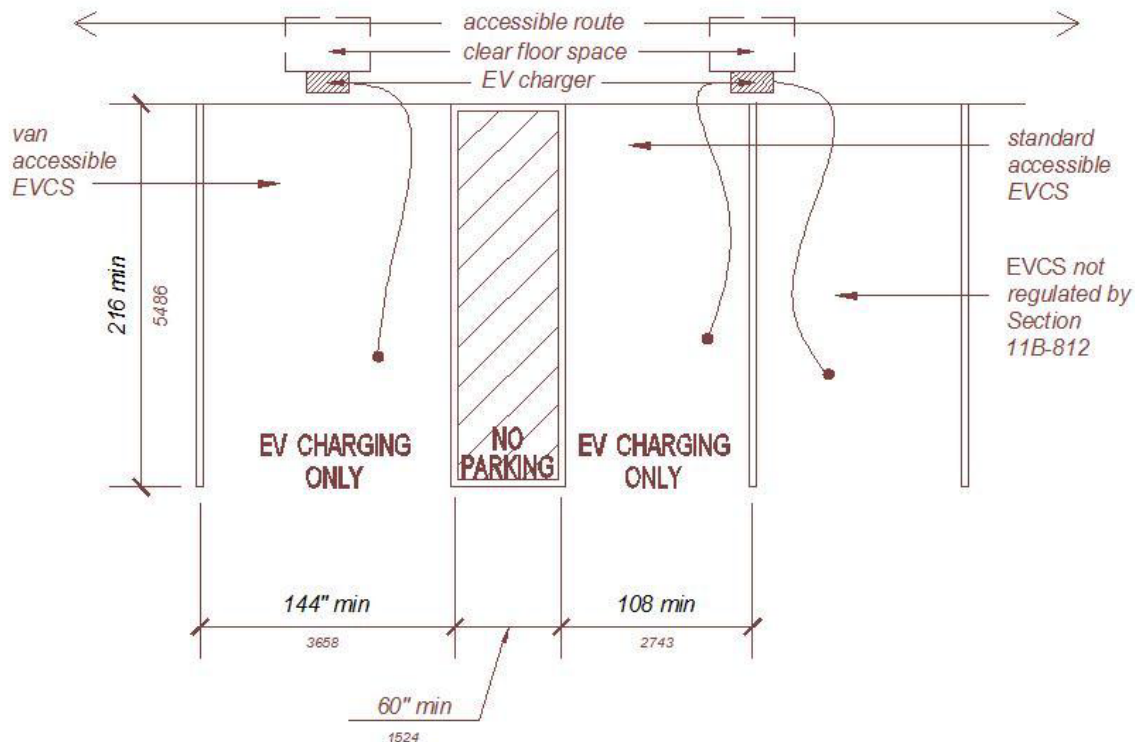
11B-812.8.4 Ambulatory. *Ambulatory EVCS shall not be required to be identified by an ISA.*

11B-812.8.5 Drive-up. *Drive-up EVCS shall not be required to be identified by an ISA.*

11B-812.8.6 Finish and size. *Identification signs shall be reflectorized with a minimum area of 70 square inches (45,161 mm²).*

11B-812.8.7 Location. *Required identification signs shall be visible from the EVCS it serves. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs identifying van accessible vehicle spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs located within an accessible route shall be 80 inches (2032 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs may also be permanently posted on a wall at the interior end of the vehicle space.*

11B-812.9 Surface marking. EVCS vehicle spaces shall provide surface marking stating “EV CHARGING ONLY” in letters 12 inches (305 mm) high minimum. The centerline of the text shall be a maximum of 6 inches (152 mm) from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space length.



**FIGURE 11B-812.9
SURFACE MARKING**

11B-812.10 Electric vehicle chargers.

11B-812.10.1 General. EV chargers shall comply with Section 11B-812.10.

11B-812.10.2 Operable parts. Operable parts and charging cord storage shall comply with Section 11B-309.

11B-812.10.3 Point-of-sale devices. Where provided, point-of-sale devices shall comply with (begin double strikeout) Section (end underline) (end double strikeout) (begin double underline) Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and (end double underline) (begin underline) 11B-707.9.

11B-812.10.4 Location. EV chargers shall be adjacent to, and within the projected width of the vehicle space being served.

Exceptions:

1. EV chargers serving more than one EVCS shall be adjacent to, and within the combined projected width of the vehicle spaces being served.

2. For alterations at existing facilities where an accessible route or general circulation path is not provided adjacent to the head end of the vehicle space or access aisle, the EV charger may be located within the projected width of the access aisle 36 inches (914 mm) maximum from the head end of the space.
3. Where the long dimension of a vehicle space is parallel to the vehicular way, the EV charger shall be adjacent to, and 48 inches (1219 mm) maximum from the head end or foot end of the vehicle space or access aisle being served. (end underline)

REASON: DSA-AC is proposing to further amend Section 11B-812.10.3 based on numerous comments received during the first 45-Day Public Comment Period. Commenters expressed concern that the proposed language of this new section conflicted with other proposed code changes regarding point-of-sale devices. DSA-AC is further amending this section to direct code users to the applicable technical requirements for point-of-sale devices installed for use with electric vehicle charging stations complying with Section 11B-812. The applicable code sections include Section 11B-707.2 Clear Floor or Ground Space, Section 11B-707.3 Operable Parts, Section 11B-707.7.2 Characters, and 11B-707.9 Point-of-Sale Devices.

ITEM 11B.51.01 – RELATED CODE AMENDMENT

CHAPTER 2 – DEFINITIONS

SECTION 202 – Definitions

(begin underline) **DRIVE-UP ELECTRIC VEHICLE CHARGING STATION.** An electric vehicle charging station in which use is limited to 30 minutes maximum and is provided at a location where the electric vehicle approaches in the forward direction, stops in the vehicle space, charges the vehicle, and proceeds forward to depart the vehicle space. The arrangement of a drive-up electric vehicle charger and its associated vehicle space is similar to a gasoline filling station island.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For the purpose of this code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE (EV) CHARGER. Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV Space). A space intended for charging electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). One or more electric vehicle charging spaces served by (end underline) (begin double underline) ~~an~~ (end double underline) (begin underline) electric vehicle (begin double strikeout) ~~charger(s)~~ (end double strikeout) (begin double underline) ~~charger~~ (end double underline) or other charging equipment (begin double strikeout) ~~allowing charging.~~ (end underline) (end double strikeout) (begin double underline) ~~Where a~~ multiport electric vehicle charger can simultaneously charge more than one vehicle, the number of

electric vehicle charging stations shall be considered equivalent to the number of electric vehicles that can be simultaneously charged. (end double underline)

(begin underline)

ELECTRIC VEHICLE (EV) CONNECTOR. *A device that, when electrically coupled (conductive or inductive) to an electric vehicle inlet, establishes an electrical connection to the electric vehicle for the purpose of power transfer and information exchange. This device is part of the electric vehicle coupler.* (end underline)

REASON: DSA-AC is proposing to amend the proposed new definition of “electric vehicle charging station” based on a comment received during the first 45-Day Public Comment Period. The commenter was concerned the definition, as originally proposed, allows a variety of interpretations as to the number of electric vehicle charging stations required by proposed Section 11B-228.3.2.1 and Table 11B-228.3.2.1. DSA-AC is amending the definition to clarify the term “electric vehicle charging station” refers to one or more spaces served by a single electric vehicle charger or other piece of charging equipment. Language is being added to clarify that where a multiport electric vehicle charger can simultaneously charge more than one vehicle, the number of electric vehicle charging stations shall be considered equivalent to the number of electric vehicles that can be simultaneously charged. This proposed amendment will help to eliminate confusion for code users applying the provisions of Section 11B-228.3.2.1 and Table 11B-228.3.2.1.

Notation

Authority: Government Code Section 4450.

References: Government Code Sections 4450 through 4461, 12955.1(c) and 14679; Health and Safety Code Sections 18949.1, 19952 through 19959; and Vehicle Code Section 22511.8.