



CITY OF LONG BEACH
 Department of Development Services
 BUILDING AND SAFETY BUREAU
ELECTRIC VEHICLE CHARGING STATIONS
SUPPLEMENTAL ACCESSIBILITY PLAN REVIEW CHECKLIST No. 10



INFORMATION	PROJECT NO.:	EXPIRATION DATE:	STATUS:
	PROJECT ADDRESS:	VALUATION:	
	WORK DESCRIPTION:		
	APPLICANT'S NAME:	TEL. NO.:	
INSTRUCTIONS	<p>Your application for a permit, together with plans and specifications, has been examined and you are advised that the issuance of a permit is withheld for the reasons hereinafter set forth. The approval of plans and specifications does not permit the violation of any sections of the Building Code or other local ordinances or state laws.</p> <p>In an effort to streamline the plan review process, please follow the steps outlined below to ensure that there is no delay in processing your application and reviewing your responses to these plan check comments.</p> <ul style="list-style-type: none"> • Comments with circled item numbers apply to this plan check. • Revised plans and calculations shall incorporate or address all comments marked on the original checked set of plans, calculations, and this plan review checklist. • Provide a written response to each comment and show where and how it has been addressed. Identify the sheet number and detail or reference note on the revised plans where the corrections are made. Time spent searching for the corrected items on the revised plans or calculations will delay the review and approval process. • Once all comments on the plans, calculations, and this checklist have been addressed, contact the plan check staff to SCHEDULE AN APPOINTMENT to review the changes made. <p>PLAN REVIEWER: _____ TEL. NO.: 562-570-_____</p> <p>ADDRESS: 333 W. OCEAN BLVD., 4TH FLOOR, LONG BEACH, CA 90802</p> <p>EMAIL: _____@longbeach.gov WEBSITE: www.lbds.info</p> <ul style="list-style-type: none"> • Should you have any questions or need clarification pertaining to the comments made on your project, you may contact the plan check staff by telephone from 7:30 AM (8:30 AM Wed) to 4:30 PM (M T W TH F). • Bring the original checked set of plans and calculations along with this checklist to the appointment meeting. Do not schedule an appointment meeting with the plan check staff until all comments have been addressed. • We will ensure that the appointment meeting or re-submittal of the plans for recheck will proceed as expeditiously as possible. If an impasse is reached during the appointment meeting, you may request that the plan check supervisor be summoned for a 2nd opinion or to attempt to resolve and/or clarify the matter. • Major revisions to the plans that necessitate additional review time may be subject to re-submittal and additional plan check fees as authorized by Section 18.05.040 of the Long Beach Municipal Code. • Reviewed plans and/or calculations not picked up within 60 days of notice will be discarded. 		
	NOTE	Numbers within the parenthesis () refer to the section of the applicable code. 2016 California Building Code (CBC).	

2016 CBC DEFINITIONS

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.

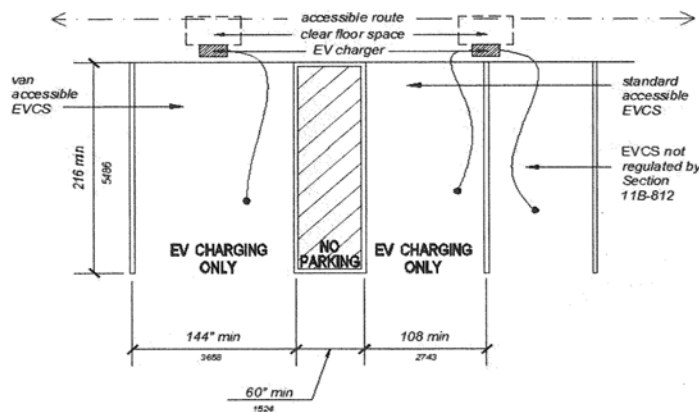
ELECTRIC VEHICLE CHARGING STATION (EVCS). One or more electric vehicle charging spaces served by an electric vehicle charger or other charging equipment. Where a multiport electric vehicle charger can simultaneously charge more than one vehicle, the number of electric charging stations shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

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.

**TABLE 11B-228.3.2.1
 ELECTRIC VEHICLE CHARGING FOR PUBLIC USE AND COMMON USE**

TOTAL NUMBER OF EVCS AT A FACILITY ¹	MINIMUM NUMBER (BY TYPE) OF EVCS REQUIRED TO COMPLY WITH SECTION 11B-812 ¹		
	Van Accessible	Standard Accessible	Ambulatory
1 to 4	1	0	0
5 to 25	1	1	0
26 to 50	1	1	1
51 to 75	1	2	2
76 to 100	1	3	3
101 and over	1, plus 1 for each 300, or fraction thereof, over 100	3, plus 1 for each 60, or fraction thereof, over 100	3, plus 1 for each 50, or fraction thereof, over 100

Footnote 1: Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles than can be simultaneously charged.



**FIGURE 11B-812.9
 SURFACE MARKING**

GENERAL

1. Fully detail the plans to show all new EVCS installed are in compliance with Section 11B-812.
2. Alterations to existing EVCS shall comply with current access requirements. (11B-228.3)
3. Revise the plans and parking summary to provide a minimum of ___ van accessible, ___ standard accessible and ___ ambulatory EV spaces. (Table 11B-228.3.2.1)
4. The required number and type of compliant EVCS spaces shall be based on the proposed total of both existing and new EV spaces. (11B-228.3.2.1)
5. Where EV spaces are provided in more than one parking facility on a site, the number and type of complying EV spaces shall be calculated and provided separately for each parking facility. (11B-228.3.2)
6. Fully dimension and detail all drive-up EVCS to show compliance with the current access requirements. (11B-812 & 11B-812.6.4)
7. Provide sitework or topography plans with point elevations sufficient to show the proposed finished surface slopes and cross-slopes of all EV spaces, access aisles, and accessible routes. Access aisles shall be level with the EV space served, and slopes/cross-slopes shall not exceed 1:48. (11B-302)
8. Relocate the detectable warnings shown on the plans to be outside the minimum required area of all EV spaces and access aisles. (11B-302)
9. Provide building sections and dimension the actual vertical clearances along the full length of the vehicle spaces, access aisles and vehicular routes serving the EVCS. A minimum vertical clearance of 98 inches shall be maintained under all vertical obstructions, including cable management systems. (11B-812.4)
13. Relocate the EVCS accessible spaces and access aisles so that persons using them are not required to travel behind vehicles or parking spaces other than their own. (11B-812.5.3)
14. EVCS shall be designed so accessible routes are not obstructed by cables or other elements. (11B-812.5.5)
15. Fully dimension all EV spaces on the plans. The minimum dimensions shall be: (11B-812.6)
 - a. 144 inches by 216 inches long for van accessible EV spaces;
 - b. 108 inches by 216 inches long for standard accessible EV spaces;
 - c. 120 inches by 216 inches long for ambulatory EV spaces; and,
 - d. 204 inches by 240 inches long for drive-up EVCS spaces.
16. Dimension and provide access aisles adjacent to each accessible/ambulatory EV space, complying with the following: (11B-812.7)
 - a. Minimum 60 inches wide;
 - b. Minimum length equal to the length of the vehicle spaces served;
 - c. Shall not overlap the vehicular way; and
 - d. Shall be located on the passenger side of van accessible EV spaces.

STRIPING & MARKINGS**ACCESSIBLE ROUTES & ACCESS AISLES**

10. Show locations of all EV spaces and accessible routes on the site plan. Compliant EV spaces shall be located on an accessible route to an accessible building entrance. (11B-206.4 & 11B-812.5)
11. Provide and clearly identify the accessible route on the plans between each EV space and the EV charger which serves the space. (11B-402 & 11B-812.5)
12. Provide curbs, wheel stops, bollards, or other barriers to prevent encroachment of vehicle over the required clear width of accessible routes. (11B-812.5.3)
17. Revise the striping plan and details to accurately dimension the accessible vehicle spaces and access aisles. The required dimensions shall be provided from the centerline of the markings. (11B-812.1)
18. Provide complete striping details and notes for the EV spaces and access aisles, to show compliance with the following: (11B-812.7)
 - a. Access aisles shall be marked with painted borderlines around their perimeter;
 - b. The area within the borderlines shall be marked with hatched lines a minimum of 36 inches on center;
 - c. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle;
 - d. The color of all striping and markings shall **not** be the blue color used for identification of accessible parking spaces per 11B-502.3.3;



- e. The words “NO PARKING” shall be painted within each access aisle in letters a minimum of 12 inches in height and located to be visible from the adjacent vehicular way; and,
- f. The words “EV CHARGING ONLY” shall be painted at the lower end of each EV space in letters a minimum of 12 inches in height. The centerline of the text shall be 6 inches maximum from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space. **(11B-812.8.9)**

SIGNAGE

- 19. Detail and provide identification signage as follows: **(11B-812.8)**
 - a. Accessible signage is not required where a total of four or fewer EV spaces are provided;
 - b. Five to twenty-five total EV spaces are provided:
 - i. One van accessible EV space shall be identified by ISA signage;
 - ii. Accessible signage is not required at the standard accessible EV spaces.
 - c. Twenty-six or more EV spaces are provided:
 - i. All required van accessible and standard accessible EV spaces shall be identified by ISA signage.
- 20. Identification signs shall be reflectorized with a minimum area of 70 square inches. **(11B-812.8.6)**
- 21. The identification sign shall be visible from the EV space it serves.

- 22. Signs identifying van accessible EV spaces shall contain the words “van accessible.”
- 23. Identification signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the front end of the vehicle space. **(11B-812.8.7)**
- 24. Mounting height of identification signs shall be
 - a. 60 inches minimum above the finish floor or ground surface measured to the bottom of the sign; or,
 - b. 80 inches minimum above the finish floor or ground surface measured to the bottom of the sign, when the sign projects over an access aisle or other circulation path.

EQUIPMENT

- 25. EV chargers shall be adjacent to, and within the projected width of the EV space being served. **(11B-812.10.4)**
- 26. Provide typical plan and elevation views of the EV chargers showing required clear ground space and all operable parts. **(11B-305, 11B-308, 11B-309 & 11B-812.10)**
- 27. Dimension the height above the clear ground space to all operable parts and controls. All operable parts and control shall be 15 to 48 inches above the clear ground space for both forward and side approaches. **(11B-308)**
- 28. Where point-of-sale (POS) devices are separate from the EV charger equipment, provide plan and elevation views for the POS in addition to the EV chargers, to show compliance with Section 11B-707.9. **(11B-812.10.3)**

ADDITIONAL WRITTEN COMMENTS

No.	Comment	Code Sec. No.