

Section 427—Electric vehicle charging infrastructure.

427.1 Scope. The provisions of this section shall apply to the construction of new buildings ~~serving Group B, Group R-1 hotel and motel only, and Group R-2 occupancies.~~

427.2 Required electric vehicle charging infrastructure. Where parking is provided, the greater of one parking space or ten percent of parking spaces shall be provided with electric vehicle charging infrastructure in compliance with Sections 427.3, 427.4 and 427.5. When the calculation of percent served results in a fractional parking space, the applicant shall round up to the next whole number.

Exceptions: 1. For occupancies classified as assembly, education, or mercantile, the requirements of this section apply only to employee parking spaces. Group R and Group B occupancies served by less than 20 on-site parking spaces.

2. The requirements of this section 427 do not apply to occupancies classified as residential R-3, utility, or miscellaneous.

427.3 Electrical room(s). Electrical room(s) serving buildings with on-site parking areas ~~must be sized~~ ~~shall be designed to accommodate the potential for~~ electrical equipment and distribution required to serve a minimum of 20 percent of the total parking spaces with 208/240 V 40-amp or equivalent electric vehicle charging infrastructure.

427.4 Electric vehicle charging infrastructure. ~~Electric vehicle charging infrastructure shall be installed meeting one of the following requirements:~~

- ~~1. A minimum number of 208/240 V 40-amp~~ or equivalent electric vehicle charging stations must be installed ~~required~~ to serve the parking spaces specified in section 427.2. The electric vehicle charging stations shall be located to serve spaces designated for parking and charging electric vehicles.
- ~~2. Additional service capacity, space for future meters, panel capacity or space for additional panels, and raceways for future installation of electric vehicle charging stations. The service capacity and raceway size shall be designed to accommodate the future installation of the number of 208/240 V 40-amp, electric vehicle charging stations specified in section 427.2. The raceway shall terminate at spaces designated for parking and charging electric vehicles in the future.~~

Where designated electric vehicle charging locations serve exterior on-grade parking spaces that are located more than 4 feet from a building, raceways shall be extended below grade to a pull box in the vicinity of the designated future electric vehicle charging locations or stub above grade in the vicinity of the designated future electric vehicle charging locations, protected from vehicles by a curb or other device.

Exception: In lieu of surface-mounted raceway between the electrical panel and the designated electric vehicle charging locations, it is permitted to provide permanent markings indicating the pathway for future raceway, and one-inch diameter capped sleeves through each wall and floor assembly that are penetrated along that route. This pathway and the locations of capped sleeves shall also be indicated on the electrical plans. Raceway shall be installed for any portion of the pathway located below slabs, below grade, or within floor, wall or roof assemblies.

Load management infrastructure may be used to adjust the size and capacity of the required building electric service equipment and circuits on the customer facilities, as well as electric utility owned infrastructure, as allowed by applicable local and national electrical code.

427.5 Electric vehicle charging infrastructure for accessible parking spaces. When electric vehicle charging infrastructure is required, the greater of one parking space or ten percent of accessible parking spaces, rounded to the next whole number, must ~~shall be~~ provided with ~~served by~~ electric vehicle charging infrastructure. The electric vehicle charging infrastructure may also serve adjacent parking spaces not designated as accessible parking.