

DIVISION 11 EQUIPMENT

SECTION 11 11 36.13 COMMERCIAL ELECTRIC VEHICLE CHARGING UNIT

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes Commercial Electric Vehicle (EV) Charging Unit standards for all projects.
- B. ChargePoint Level 2 charging stations are to be used for new installations across all campus properties to make the EV charging experience consistent for users
- C. Charging stations must be compatible with the following:
 - a. Mobile Smart Phone Application for users
 - b. Software reporting (e.g. usage stats, tickets, etc.)
 - c. Limiting time of Charge – 4-hour current limit
 - d. Two charging cables per station

1.2 STRIPING AND SIGNAGE SPECIFICATIONS

- A. Striping and Space Layout
 - a. All lines should be painted with width 4 inches using a commercial line striping paint in the color white
 - b. All installations should be ADA compliant with:
 - i. New construction - a **minimum** of 2 spaces, 96" in width with a 60" access isle between
 - ii. Installations in a current parking lot. Replace 3 parking spaces with 2 spaces, 96" in width and a 96" access isle between.
 - iii. Access isle should be striped to current no parking standard
 - iv. Curb cuts and slope access to sidewalks must meet ADA standards
 - v. Access to the charging station must be accessible
 - c. EV Charging symbol should be:
 - i. Green background with white lettering and symbol using commercial line striping paint
 - ii. Square background to be 48" x 48"
 - iii. EV stencil should be 36" x 21"
 - iv. Example stencil: <https://www.hittmarking.com/products/electric-vehicle-with-plug-stencil-36-inch-x-21-inch-x-1-16-inch-thick/>
- B. Signage
 - i. Signage should be installed on standard U-channel sign post painted Architectural Brown with the bottom of the sign measuring no less than 84" from the ground unless installed in a raised area away from pedestrian traffic
 - ii. Post should be mounted centered on the access isle
 - iii. Sign should be ECU standard green EV parking sign 18" wide x 24" long (see Appendix A for image of sign)

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1.3 ELECTRICAL SPECIFICATIONS

A. Voltage

- a. 208/240 Volt single phase system

B. Amperage

- a. 80 Amps max circuits for dual head units two 40 Amp circuits.

C. Wiring

- a. All wiring to be in accordance with the National Electric Code 625 Article 625 for Electrical Vehicle power transfer system.

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