



## Permit Application Requirements

Provide completed permit application detailing if use will be indoor or outdoor, and Level type (i.e., Level 1 Charging 120-Volt, Level 2 Charging 208/240-Volt, Level 3 400/900-Volt).

Signed agreement or letter of intent from the contractor, itemizing the scope or work involved.

Manufacturer's specification and installation manuals for the Electric Vehicle (EV) system, that is UL labeled and listed as per NFPA 70 §625.5.

For outdoor installation, provide a survey showing the location of installation, and stamped-signed plans by a registered design professional. For all uses, provide a detailed site and floor plan showing the location of work in respect to the property and adjoining structures, public way, and property lines.

Electrical one line diagram detailing the system configuration.

Mounting detail, with height and impact protection details (if applicable), cable/conduit/conductor type, size and installation location, type and size of overcurrent protection and disconnect, and location of additional meters, electrical service panel and distribution panels. Provide electrical service load calculation.

## Construction Requirement

Per NFPA 70 §625.5, EV supply equipment shall be located at a minimum height of 1.5' above floor level for indoor locations, and minimum 2' or more above grade for outdoor locations.

Per NFPA 70 §625.17, charging cord shall not exceed 25' in length, or otherwise must be equipped with a cable management system that is part of the EV equipment.

Per NFPA 70 §110.27 (B), EV system shall be protected from physical damage by the vehicle, by either installing it on a side wall, installing 4' or more above floor level, providing wheel barriers, or providing bollards.

Per NFPA 70 §220, and 625.42, EV supply equipment outlets shall serve rating that is greater than or equal to the electrical service load calculations and has a sufficient rating to supply the load served.

Per NFPA 70 §625.41, Overcurrent protection for the EV system shall be rated for continuous duty and have a rating of 125% or more of the maximum load of the equipment.

Per NFPA 70 §625.43, 110.25, Provide disconnecting means that is capable of locking in position and is easily accessible to EV systems that is rated more than 60 amps, or more than 150-volts.

Per NFPA 70 §210.19(A)(1), 215.2(A), 625.4, and table 310.16, EV systems shall be installed on dedicated circuits, and circuit conductors that are sized at 125% or more of EV system nameplate current.

Per NFPA 70 §300.5, and 310.5, underground conduit shall meet the minimum burial cover as indicated per referenced sections. Insulated conductors and cables must be suitable for use in wet locations and protected from physical damage.

Provide commissioning report at final inspection demonstrating the proper operation of the system.

## **Inspections**

Call inspectional services (630)823-5860 at least 24 hours in advance to schedule a Rough and Final Electrical inspection, as required.

