



BUILDING DEPARTMENT

Electric Vehicle Supply Equipment/Charger Permitting Checklist for the City of South Bend/St. Joseph County Building Department

MINIMUM ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) REQUIREMENTS

- EVSE installed according to manufacturer's installation instructions
- EVSE is suitable for the environment (indoor/outdoor) in which it will be installed
- EVSE has a Nationally Recognized Testing Laboratory (NRTL) approved listing mark (UL 2202/UL 2594)

LOCATION AND EVSE INSTALLATION REQUIREMENTS

- Permanently installed EVSE are located at a height of:
 - o Indoor location: 1.5 feet or more above floor level
 - o Outdoor location: 2 feet or more above grade level
- Charging cord meets one of the following:
 - o Does not exceed 25 feet in length
 - o Is equipped with a cable management system that is part of the EVSE
- The EVSE is protected from vehicular impact through one of the following:
 - o Installation in a location not subject to vehicular impact such as a side wall or 4 feet or more above floor level;
 - o Wheel barriers;
 - o Bollards; or
 - o Other approved barrier

ELECTRICAL REQUIREMENTS

- For EVSE and 240V outlets installations, electrical service rating is greater than or equal to the electrical service load as demonstrated by electrical service load calculations
- EVSE has a sufficient rating to supply the load served



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- Service and feeder are sized for EVSE to be considered continuous loads unless an automatic load management system (ALMS) is used. If an ALMS is used, the maximum equipment load on the service/feeder matched the maximum load permitted by the ALMS
- The required overcurrent protection for the proposed EVSE are
 - o Rated for continuous duty
 - o Have a rating of 125% or more of the maximum load of the equipment specification
- If the EVSE is rated more than 60 amps or more than 150V to ground, the disconnecting means is able to be locked in the open position and is in an easily accessible location not protected by locked doors or other obstructions
- Circuit serving EVSE do not serve any other end uses
- Circuit conductors are sized at 125% or more of EVSE nameplate current
- Underground conduit meet minimum depth requirements. Insulated conductors and cables are suitable for use in wet locations and protected from physical damage
- Portable EVSE is connected by one of the following:
 - o A nonlocking 2-pole, 3-wire grounding-type receptacle outlet rated at 125V, single phase, 15 or 20 amps
 - o A nonlocking 2-pole, 3-wire grounding-type receptacle outlet rated at 250V, single phase, 15 or 20 amps
 - o A nonlocking 2-pole, 3-wire or 3-pole, 4-wire grounding-type receptacle outlet rated at 250V, single phase, 30 or 50 amps
 - o A nonlocking 2-pole, 3-wire grounding-type outlet rated at 60V DC maximum, 15 or 20A
- Fastened in place EVSE are connected by one of the following:
 - o A nonlocking 2-pole, 3-wire grounding-type receptacle outlet rated at 125V or 250V, single phase, up to 50 amps
 - o A nonlocking 3-pole, 4-wire grounding-type receptacle outlet rated at 250V, three phase, up to 50 amps
 - o A nonlocking 3-pole, 4-wire grounding-type receptacle outlet rated at 250V, single phase, 30 or 50 amps
 - o A nonlocking 2-pole, 3-wire grounding-type receptacle outlet rated at 60V DC maximum, 15 or 20A
- Fixed EVSE are permanently wired and fixed in place to the supporting surface



ST. JOSEPH COUNTY

CITY OF SOUTH BEND



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