

Station Pad

The station shall be installed on a newly poured concrete pad. The mounting surface must be smooth and cannot exceed a slope of 0.25 inches per foot.

The concrete pad must meet these specifications:

- Minimum of 12 inches deep
- Three feet (3'-0" wide, twenty feet (20'-0") long.
- Contains #4 rebar or larger, top and bottom, 12 inches on center
- Concrete 3000 PSE minimum

Transformer Pad

- All material and labor necessary to construct the pad shall be furnished by the contractor.
- Contractor shall be responsible for setting grade of pad. In no instance shall finished grade be less than 4" from the top of pad. Grading shall be such as to provide drainage away from the pad in all directions.
- the concrete minimum 28 day compressive strength shall be 3000psi. The top surface of the concrete pad shall be LEVEL THROUGHOUT with absolutely no high or low spots. The transformer must have a perfectly level surface on which to sit to prevent any outside interference to the primary or secondary of the transformer (critical). A smooth trowel finish is required. A broomed surface will not be accepted. Grouting will not be accepted. The beveled edge is required and shall be formed. A trowel bevel will not be accepted.
- Primary and secondary conduits shall be stubbed into the pad well in the designated area and shall be within 2" of the top of the transformer pad. Failure to allow proper separation of primary and secondary conduits, as will be indicated on the pad detail drawing, will cause the pad form to be rejected.
- Primary conduits to be 3" schedule 80 PVC with RIGID sweeping 90 degree elbows. Elbows shall have a radius of 36" and length of elbow shall be 60" and shall be buried a minimum of 48" from top of grade.
- #4 rebar, 12" O.C. is required, both ways-throughout, 4" from the base of the formed pad.
- BEFORE pouring concrete, the pad form must be inspected by SED representative. Rebar and conduits must be in place at the time of inspection. The form is subject to rejection if pre-pour approval is disregarded.
- Post pour inspection is required. This inspection should be requested only after all work is completed, forms removed, ground rods installed, and final grading has been preformed. The transformer will be set only after the pad form has passed this inspection.

Bollards

A total of five (5) bollards are required. One (1) bollard on the pad will be required for protection of the charging stations. Two (2) bollards will be required at the service entrance panel. One (1) on the side and one in the front. Two (2) at the back of the pad mount transformer. These are not shown on the attached drawings.

! **WARNING:** If not installed correctly, the ChargePoint® charging station may pose a fall hazard, leading to death, personal injury, or property damage. Always use the provided Concrete Mounting Template or a ChargePoint-approved surface mounting solution to install the ChargePoint® charging station and install in accordance with applicable codes and standards using licensed professionals. Non-approved installation methods are performed at the risk of the contractor and void the Limited Warranty.

Drainage

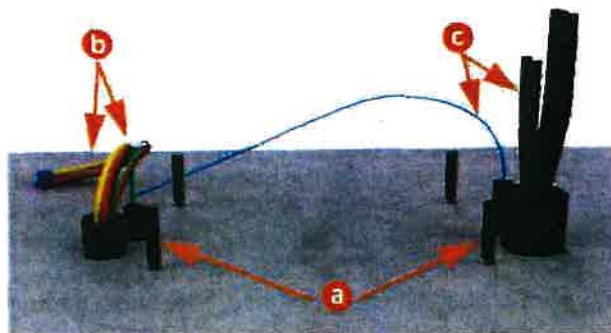
Ensure any site slopes, walls, or fencing do not trap water around the charging station installation site. The system is only built to withstand 457.2 mm (18 in) of standing water.

! **WARNING:** Exposing the ChargePoint® charging station to over 18 inches (457 mm) of standing water could create an electrocution, shock, or fire hazard. Cut power to the charging station if it has been exposed to standing water and contact ChargePoint before the charging station is powered on.

Mounting Specifications

The Express 250 is installed on a concrete pad. Details on how to prepare this pad are described later in this guide.

All installations require four anchor bolts (a). Standalone installations only require the two conduit stub-ups on the left side, for AC wiring and shunt trip wiring (b). Paired installations also require the wiring shown on the right: DC wiring and Ethernet communication (c). For more detail, see [Conduit \(page 21\)](#).



! **Important:** Although the Concrete Mounting Template was originally designed for six anchor bolts, only the four corner anchor bolts are required for station stability. Newer charging stations are designed to only use the four corner anchor bolts. If older sites were already designed with six anchor bolts, removing the middle bolts is not required.

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