



# EV CHARGING STATION FOUNDATION FOR LEVEL 3 CHARGERS

## INSTALLATION INSTRUCTIONS

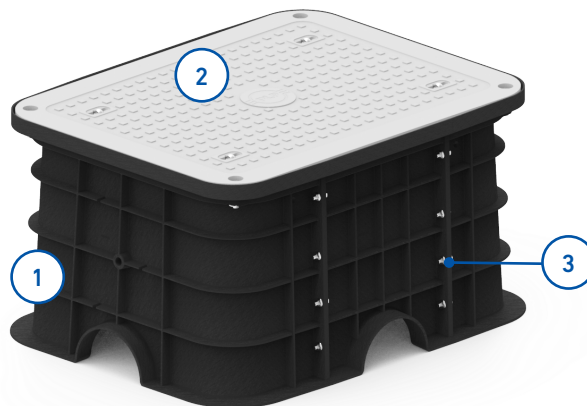


### IMPORTANT SAFETY INFORMATION

**READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**

This product is intended for use by trained technicians only. This product should not be used by anyone who is not familiar with and not trained to use it. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol. These instructions are not intended to supersede any company construction or safety standards. These instructions are offered only to illustrate safe installation for the individual. PLP products are intended for the specified application only. Do not modify this product under any circumstances. Do not reuse or reinstall any PLP product unless that capability is expressly indicated in the product's Installation Instructions. For proper performance and personal safety, be sure to select the proper PLP product before installation. PLP products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

## PACKAGE COMPONENTS



1. Foundation Base
2. Lid
3. Slide Wall Bolts with Flange Nuts (16)
4. Lid Bolts (4) (Not Pictured)

### Tools Required:

- Back hoe or shovel(s)
- 3/4" and 1-1/8" socket for hex head bolts
- Assorted drill bits
- Metal cutting hole saw with arbor for conduit pass through

## ⚠ WARNING

1. Always check with local codes to ensure compliance. You may need to adjust the guidelines provided here to comply with local regulations.
2. **ALWAYS CALL BEFORE YOU DIG:** 811 is the number used most in the U.S.
3. Use only qualified technicians for the task at hand. Improper installation can lead to equipment damage, injury, or even death of persons involved.
4. Follow all instructions for the charger unit being installed.

## PREPARATION

- 1 Prepare the site with substrate dug out to accommodate a hand tamper, 10" (254 mm) oversized, or vibrating plate, 24" (610 mm) oversized, on all sides of the foundation. The foundation is 39" wide by 49" long.

The foundation (Height = 25") requires a minimum gravel base of 6", making the minimum dig depth 31" (25" + 6"). A deeper gravel base is required for frost lines over 25". When the frost line exceeds 25", add 6" to the frost line to determine the proper dig depth.

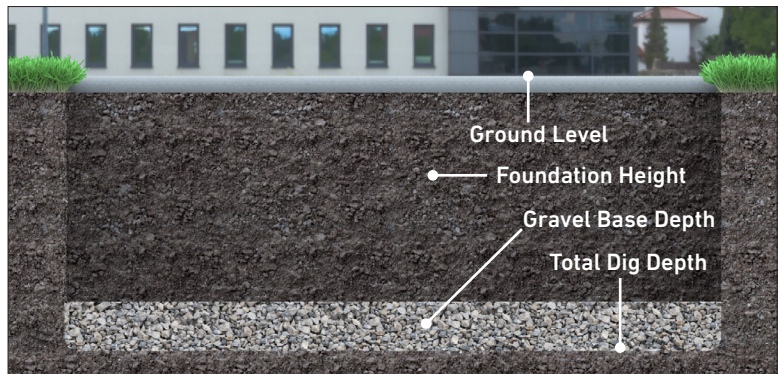
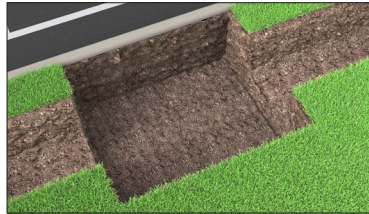
**EXAMPLE:** 32" Frost Line + 6" = 38" Dig Depth.

Dig to the appropriate depth for your application (based on the frost line) and backfill with compacted limestone gravel until only 25" (the height of the foundation) remains.

In addition to backfilling with gravel to reach the correct depth, the foundation should also have a minimum of 11" (279 mm) of gravel around its sides.

**NOTE:** Layers of gravel should be compacted every 3" to 6" (76 mm - 152 mm).

Gravel Base Depth is determined by Frost Line.

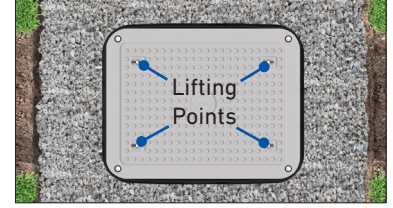


Frost Lines 0-25"	
Total Dig Depth	31" (787 mm)
Gravel Base Depth	6" (152 mm)

Frost Lines 26" and up	
Total Dig Depth	Frost Line + 6" (152 mm)
Gravel Base Depth	Total Dig Depth - 25" (635 mm) (Foundation Height)

**EXAMPLE:** 32" Frost Line + 6" = 38" Dig Depth.  
38" Total Dig Depth - 25" = 13" Gravel Base.

- 2 The EVBASEASSY-300 weighs 250 lb and it is recommended for two people to lift the foundation in place. When moving the foundation, use the provided (4) J-hooks and position them at the corner lifting points.



- 3 Place the foundation in the desired position and route the conduit using the available cutouts on the foundation base. See images.

**NOTE:** Larger conduit sizes can be routed through the bottom of the foundation. Deeper trenching will be required for this configuration.



Ground prepared for installation of foundation; conduit has been run.

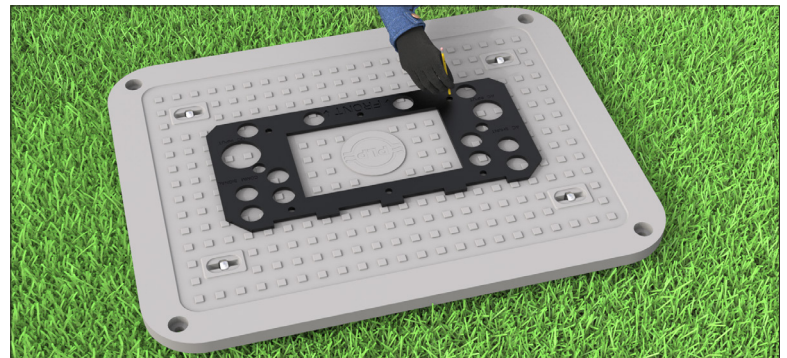
- 4 Once the foundation is leveled and at the desired height for finishing the EV installation, begin adding the gravel in 3" to 6" (76 mm - 152 mm) layers, compacting each layer with a manual compacting sledge or compacting machine. Ensure level status is maintained and that the gravel is filling the ribs on the exterior of the foundation. Repeat this process to bring the gravel up to ground level. Concrete is not required, but if desired, leave space between the gravel and ground level to pour the concrete cap.

**NOTE:** PLP recommends using a 3/4" (19 mm) compacted limestone or a locally available bedding stone.



## CHARGER MOUNTING

- 5 If your charger of choice came with a mounting template, lay it on the foundation lid, marking hole locations needed and drill into the cover.



Use the charger's template to determine drill hole pattern. The ChargePoint CPE250 template is shown in the image above.

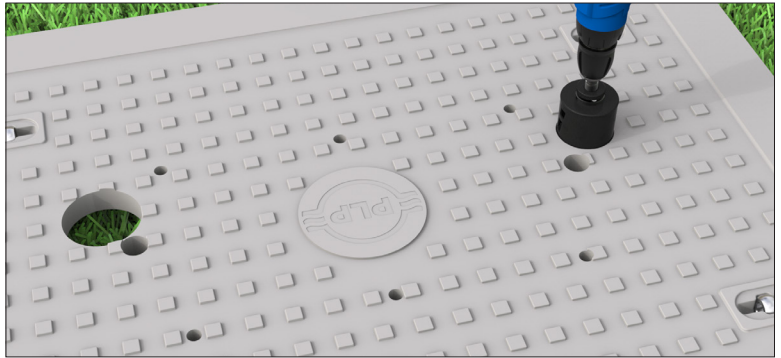


- 6 Using a 1-1/8" socket, remove the 4 bolts at the corners of the foundation lid. With all 4 bolts removed and set aside, use the hooks to lift the lid off of the foundation, using the same procedure noted in Step 2.

**NOTE:** Starting with a smaller drill bit and working up makes for a quicker and cleaner job.



- 7 Drill into the foundation lid at the marked locations. Oversize the hole by 1/8" (3 mm) for proper clearance for bushing or wire clamp. Finish drilling the holes for the wire conduit as specified by the charger installation manual.

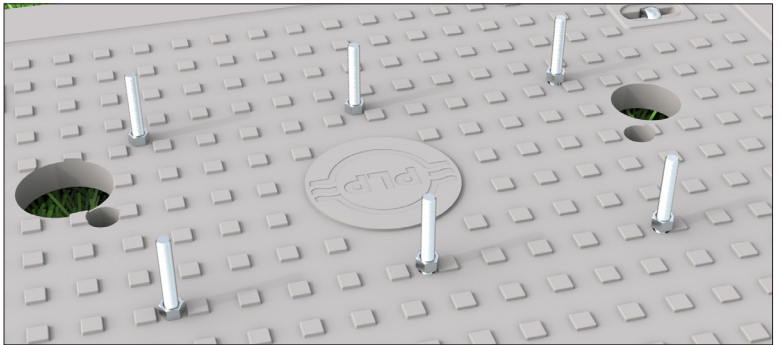


- 8 Continue with the lid off of the foundation, attach the mounting bracket or plate for the charger/charger stand.

Place star washers on the top part of the EV mounting bolt to hold the bolts in place.

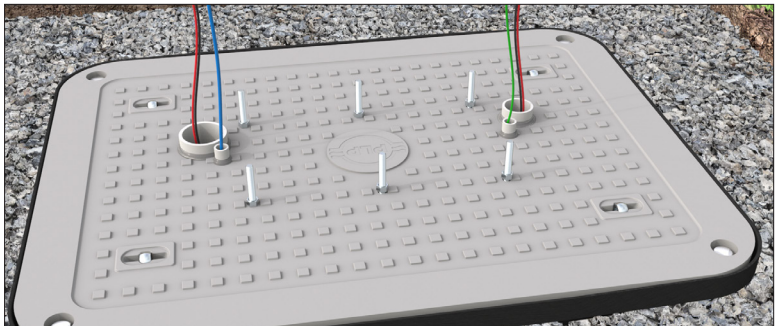
After ensuring that no burrs or sharp edges are present, begin routing the conduit and wires before re-attaching the lid.

Make sure that the foundation rim is clear of any gravel pieces that might make the foundation lid unstable after installation.



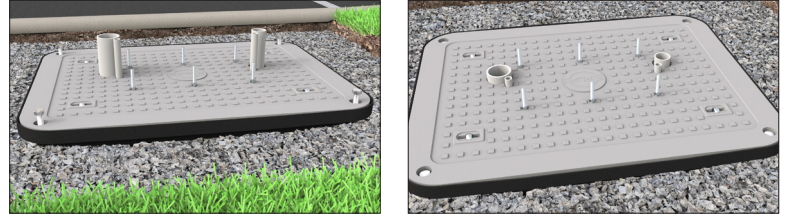
- 9 Place the lid back on the foundation and finish routing the wires. Extending the conduit up through the hole in the plate or routing just the wire will be a local decision based on the type of charger, mounting pole, and applicable codes.

**NOTE:** Using a bushing or wire clamp will help protect the wire during routing. PLP highly recommends protecting the wire at any potential contact or rub points.



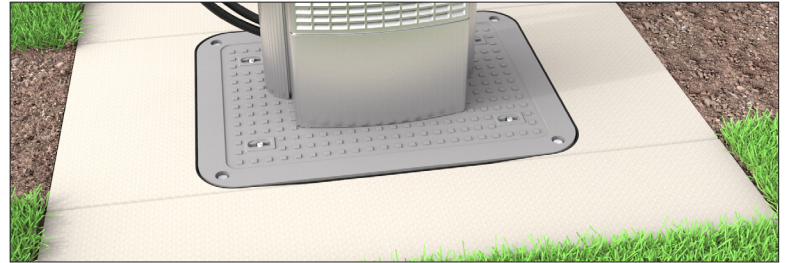
- 10 Replace the 4 bolts in the corner of the foundation lid. Using a 1-1/8" socket, fasten the bolts in place.

Torque to 120 ft-lbs.

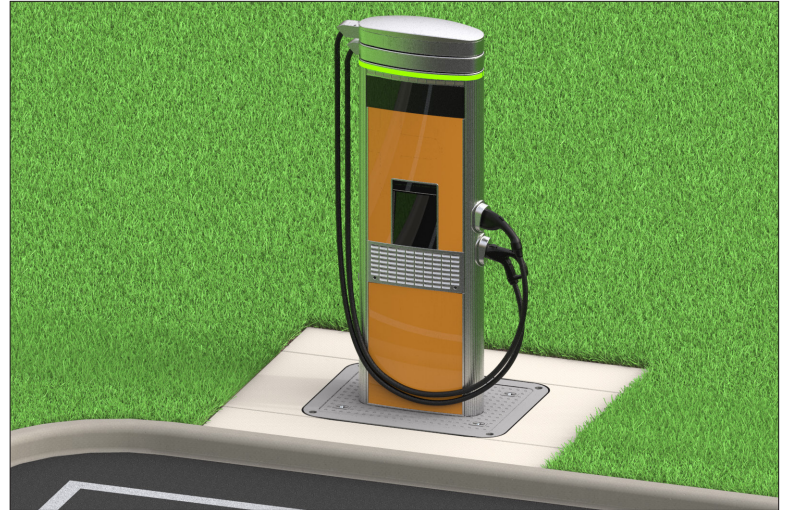


- 11 Attach the charger to the mounting bolts that were installed in Step 8. Fasten the charger in place using the EV charger's installation manual torque specifications.

**OPTIONAL:** Pour concrete around the perimeter of the foundation until the concrete is level with the foundation lid.



- 12 At this point, follow the installation instructions for the charger that you have chosen.



Completed foundation installation, with an attached charger.



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