

Drilled pier embedment criteria:

Discount the upper one to two pier diameters for level soils and then find the minimum depth for:

- 1- Depth needed to get pier tip deflection of 0.01 inch (See figure below)
- 2- Meet the IBC non-constrained pole formula IBC 1807.3.2.1, Equation 18-1.
- 3- Does not exceed the passive soil resistance at the ground surface
- 4- Does not exceed lateral deflection of 0.5 inch at the ground surface
- 5- Meets axial downward and uplift embedment requirements and
- 6- Meet minimum IBC setback or daylight requirement for sloping ground.
(IBC Fig. 1808.7.1)

(Items 1,3 and 4 should be checked by Lateral Foundation Software
<http://www.soilstructure.com/geotechnical-software/lateral-foundation/>).

