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Screw-in Pile Foundation Installation Specifications

1. SITE

- 1.1. Use equipment that will minimize environmental impact on site.
- 1.2. Prior to installation, ensure all underground services have been located, marked and identified by the proper authorities.

2. INSTALLATION

- 2.1. Installation performed by a trained and/or certified contractor or dealer of HELICAL PIER SYSTEMS LTD

2.2. Equipment:

- 2.2.1. Using hydraulic drill head, install helical screw-in piles to depths, torques and positions as indicated on drawings or specifications.

- 2.3. Provide torque monitoring device as part of the installation unit or as a separate in-line device capable of recording torque or line pressure. Calibrated torque monitoring data should be made available for review by the Project Engineer. Torque should be monitored during the entire installation.

- 2.4. All screw-in piles should have identification, finish torque, finish depth and pile description recorded on an installation summary page.

- 2.5. Torque head should be used that will provide more torque than the minimum required by the Project Engineer.

- 2.6. Connect Manufacture's approved adapters to the installation unit. Pin piers and extensions to the adapter in a safe and controlled manner, using two pins. Install screw-in piles in a smooth and continuous manner, rate of advance 5 to 20 rpm. The rate of advance should match the pitch on the pile. Apply sufficient downward pressure to aid in the advancement of the pile into the ground.

- 2.7. Position screw-in pile as indicated on drawings. Place anchor tip on pinned location. Establish the proper angular alignment at start of installation. If soil conditions appear difficult (gravelly, rocky, cobbled or very hard), provide offset marks for pile position references.

- 2.8. Use two high strength bolts with nuts per coupler connection.

- 2.9. If obstructions present a problem, the obstruction must be removed or the pile relocated. This relocation may effect the relocation of other piles, should be reviewed by Project Engineer.

- 2.10. Minimum embedment depth is typically considered 5 times the diameter of the uppermost helix or to the maximum anticipated frost penetration depth.

- 2.11. Depth and torque tolerances: screw-in piles that reach maximum torque rating before reaching minimum indicated depth shall be subject to the following:

3. Terminate at depth obtained with written approval of Project Engineer.

4. Replace screw-in pile with smaller and/or fewer helix pile, installed beyond the termination depth of the original screw-in pile.

HELICAL PIER SYSTEMS LTD. may change or revise this document at any time.