

CHANCE[®]

FOUNDATION ANCHORING REPORT

A CASE HISTORY

Project:
Sprint PCS
Monopole Site
Equipment Platform Supports

Architect:
Conley Design Group, Inc.
Irving, TX

Foundation Contractor:
Helical Concepts, Inc.,
McKinney, TX

Project:

Telecommunications equipment was supported at this PCS site by an elevated platform. The plan view dimensions of the platform were 12'-0" by 20'-6".

The compression load per pile was 5,500 pounds with a required shear load per pile of 400 pounds. The soil profile showed expansive clays over extremely hard shale. The design called for piles to be installed to a depth of 10 feet with 2 ft. 5 in. above grade.

Construction Procedure:

To penetrate to the design depth, an Eskridge drive head was connected to a Mustang 960 skid steer unit. Torque was monitored using in-line gauges.



Eight Type HS 3½-inch diameter Chance INSTANT FOUNDATION™ Screw Piles were installed. To achieve design requirements, 7 ft. lead sections with 10- and 12-inch-diameter helices and 78-inch-long plain extension sections were used. A special pile cap manufactured by Chance was used to connect each pile to the superstructure.

One-Trip Pile Installation:

The piles were installed in less than two hours. Assembly of the platform began immediately and was completed the next day. The net total time of less than two days for this complete job contrasts with the 12 days typically needed just for concrete piles to cure before attachment.



A.B. Chance

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