

SITE PREPARATION

NEW CONSTRUCTION

» REMEDIAL REPAIR

HELICAL PULLDOWN® MICROPILE

ATLAS RESISTANCE® PIERS

HELICAL UNDERPINNING

EARTH RETENTION

RETAINING WALLS

HELICAL TIEBACK

SOIL SCREW®

PIPELINE STABILIZATION

TELECOM/SUBSTATION

UTILITY/SOLAR

CHANCE® DISTRIBUTOR

**DANBRO DISTRIBUTORS**  
Philadelphia, PA

CERTIFIED CHANCE®  
INSTALLER

**AUDUBON HELICAL PIERS, INC.**  
Shamong, NJ

PROFESSIONAL ENGINEER

**KBA ENGINEERING SERVICES**  
Manasquan, NJ

GENERAL CONTRACTOR

**NORTHEAST HOME ELEVATIONS**  
Point Pleasant, NJ

Hubbell Power Systems, Inc. is the world's leading helical pile/anchor manufacturer. The CHANCE® brand offers a technically advanced, cost effective solution for the Civil Construction and Electric Utility and Telecommunications markets.

# Goetze Street Home



### PROJECT:

A home in Hurricane Sandy's path needed to be raised above flood levels.

### PROBLEM:

Superstorm Sandy was the most destructive hurricane in 2012 resulting in over \$68 million in damages. The Federal Emergency Management Agency (FEMA) published flood maps as properties were required to elevate according to their designated flood zone.

Chuck Tauscher, Project Manager of Audubon Helical Piers, Inc. in Shamong, NJ, is very familiar with the situation. Audubon Helical Piers usually has two or three crews installing helical piers each day. They have been installing helical piers for 15 years.

"This house is in an AE (flood) zone and it had to be raised approximately six feet above its original elevation. Almost all the houses on the Jersey shore are being raised by that much," explains Tauscher.

*continued*



### SOLUTION:

The engineering design was performed by KBA Engineering Services in Manasquan, NJ and called for the installation of 52 CHANCE® Helical Piers, installed every six feet around the perimeter of the house. The torque required was 40 kips per pile.

Audubon did a test pile on-site to confirm soil conditions and then work started on June 4, 2014.

“We used CHANCE RS 2875.203 helical piles with a helix configuration of 8, 10, and 12 inches installed 22 to 24 feet at 40 kips of torque,” explains Tauscher. The helical piles were provided by DANBRO, the local, authorized CHANCE Distributor. Working with limited headspace and maneuvering around the cribbing, the crew used a mini excavator and a Bobcat MT 55 to install the piles.

Each pile was cut off about two feet below grade and a construction cap bolted in place for a grade beam. Block walls were constructed to support the house.

“For this project we used RS 2875.203 helical piers. Total length was 22 to 24 feet. The torque rating we wanted was 40 kips or 40,000 foot-pounds on each pier. Everything was installed vertically. The helicals were 8, 10 and 12 inches”

-CHUCK TAUSCHER, AUDUBON HELICAL PIERS, INC.

### KEY BENEFITS:

Helical pile technology offers limited noise and no vibration during installation unlike driven piles or timber piers. Also, small equipment fits nicely under the elevated structure contributing to the speed of installation to finish the project on time.

“With helical piles, there are no spoils and no mess. We were in and out in two days,” concluded Tauscher.



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