



Helical Piles of New York Installs (22) Helical Piles for Underpinning and a New Foundation for an Elevated House in Lindenhurst, NY

December, 2015



Helical Piles of New York
1145 William Floyd Pwky
Shirley, NY 11967
516-250-2515
www.helicalpilesny.com



Project Name & Location:	Elevated House Foundation - Lindenhurst, NY
Project Date:	December, 2015
Project Type:	Underpinning Existing Block Foundation and Installing Piles for New Foundation
Helical Pile Installation Contractor:	Helical Piles of New York - Div. of High-Rise Industries
Structural Engineer:	Jeffrey Havelin, P.E. - www.havelin-pe.com
General Contractor:	Sprint Enterprises - www.sprintenterprises.com
Helical Pile & Bracket Specifications:	SS5 1.5" RCS Piles with 8",10",12" Helix Bearing Plates, (10) Tons Ultimate, Galvanized
Soils & Embedment Depth:	Sand. Average Pile Embedment 20 ft.
Project Timeline:	Helical Pile Installation - 4 days
Helical Pile Manufacturer:	A.B. Chance - Centralia, MO

Project Overview

Helical Piles of NY, a division of High Rise Industries with headquarters located in Shirley, NY, recently completed a very challenging project on a house in Lindenhurst, NY on Long Island. The house and the block foundation were badly damaged by Super Storm Sandy. The engineer decided to have the block foundation underpinned so it could be used to help support the new poured wall foundation needed to elevate the house to the new BFE specification.



After the house was elevated, Helical Piles of NY began the process of underpinning the existing block foundation. Before the underpinning piles could be installed, a substantial amount of forming was done and a 3000 PSI 3/8" stone mix was pumped to fill all of the cinder blocks for leveling purposes and to increase the load capacity.



After the grouting was completed, the process of installing the underpinning piles began. This process was rather slow and tedious going due to some extremely tight space limitations. In addition to the tight space, the water table was extremely high on the site, and a good deal of time was spent dewatering. A total of (22) SS5 helical piles were installed on both the interior and exterior of the block walls due to space limitations and a collapsing swimming pool on one side of the house. The piles were secured to the walls with Chance underpinning brackets. Due to all the issues with the site, pile installation was completed in (4) days.



Helical Piles of NY also did all of the forming and pouring for the new foundation that is 4' high and 8" wide and is two feet above the new BFE code. The company also completed the demolition work on the swimming pool and decking.



Click the link below to see a video of the project

[Helical Pile Installation Video](#)

