



Helical Piles of New York Installs (20) Helical Piles with Underpinning Brackets and (3) Piles with New Construction Brackets for a House Damaged by Super Storm Sandy in Amity Harbor, NY

October, 2015



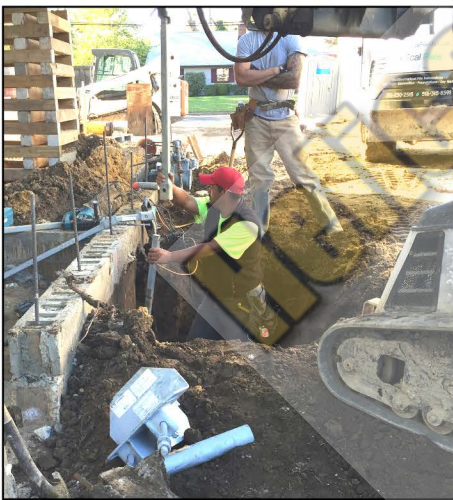
Helical Piles of New York
1145 William Floyd Pkwy
Shirley, NY 11967
516-250-2515
www.helicalpilesny.com



Project Name & Location:	Amity Harbor, NY
Project Date:	October 2015
Project Type:	House was Severely Damaged by Super Storm Sandy. Helical Piles were Installed to Support Portions of the Existing Foundation & the New Elevated Foundation
Helical Pile Installation Contractor:	Helical Piles of New York - Div. of High-Rise Industries
Engineer:	Jeffrey Havelin, P.E. - www.havelin-pe.com
General Contractor:	Sprint Enterprises - www.sprintenterprises.com
Helical Piles Specifications:	25 Ton Ultimate Capacity; Galvanized
Soils & Embedment Depth:	Sand Avg Pile Embedment 15 ft.
Project Timeline:	Helical Pile Installation - 2.5 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 the installation of (20) Chance SS5 helical piles to underpin the existing foundation of this house that sustained significant damage from Super Storm Sandy. Prior to starting the underpinning process, the engineer specified that the existing block foundation be filled with 3000 psi grout for additional capacity. In addition, a new poured foundation was constructed on top of the existing block foundation after underpinning was completed. In addition to the underpinning piles, (3) additional SS5 helical piles were installed with new construction pile caps to support the existing fireplace and chimney that the owner wanted to preserve.



This house, like many others in Amity Harbor, experienced significant damage from Super Storm Sandy. The owner decided to have the house repaired and elevated to a height two feet above the new BFE code requirements.



The original foundation for the house was constructed of cinder block, and the engineer determined it would be best to leave the foundation in place and pour a new foundation on top of it. But before pouring the new foundation, he specified that 1) the block foundation needed to be filled with a 3000 psi grout to provide additional capacity and support, and 2) all of the original foundation was to be underpinned prior to constructing the new foundation.



(20) Chance SS5 helical piles were installed to underpin the reinforced block foundation using the Chance underpinning bracket. The SS5 piles were configured with 8" and 10" helical bearing plates. They were installed to an average depth of 20 ft. Into sandy soils and a high water table to reach the required capacity of 12 tons.



Also, (3) SS5 helical piles with new construction pile caps were installed to support the existing fireplace and chimney that the owner wanted to preserve. All helical piles and brackets were installed in 2.5 days with having to deal with high tides.



In addition to installing all of the helical piles, Helical Piles of New York was contracted to complete the construction of the new 5' x 8" poured foundation including forming, rebar and placing the concrete.

Click the link below to see a video of the project

<https://www.youtube.com/watch?v=qGqHM6Aftzc>

