



**Helical Piles of New York Installs (45) Chance<sup>®</sup> Helical Pulldown Micropile<sup>™</sup> Pile Deep Foundations for a New Recreation Center on the Tarrytown, NY Waterfront**

Winter, 2015



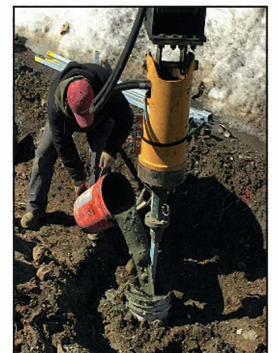
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<b>Project Name &amp; Location:</b>	New Waterfront Recreation Building, Tarrytown, NY
<b>Project Date:</b>	Winter 2015
<b>Project Type:</b>	Helical Pulldown Micropile Deep Foundations
<b>Helical Pile Installation Contractor:</b>	<b>Helical Piles of New York</b> - Div. of High-Rise Industries
<b>Engineering Firm:</b>	<b>The Quill Group</b> - Bridgeport, CT <a href="http://www.thequillgroup.com">www.thequillgroup.com</a>
<b>Helical Piles Specifications:</b>	(45) Helical Pulldown Micropiles; 1.5" SS150 with 8",10",12" Helix Bearing Plates; 5" Grout Column; 20 Ton Ultimate Capacity; Galvanized
<b>Soils &amp; Embedment Depth:</b>	Sand and Clay. Average Pile Embedment 40 ft.
<b>Project Timeline:</b>	Helical Pile Installation - (2) months with several mobilizations
<b>Helical Pile Manufacturer:</b>	A.B. Chance - Centralia, MO



Helical Piles of NY, a division of [High Rise Industries](#) with headquarters located in Shirley, NY, recently completed installing (45) Chance Helical Pulldown Micropiles as deep foundations for a new recreation center along the shores of the Hudson River in Tarrytown, NY. The project proved to be more difficult than originally thought due to the existence of solid fill that was not disclosed in the soil borings. The fill consisted of old brick, shell rock, old concrete and some boulders. Further investigation revealed the site previously hosted a large Chevrolet manufacturing plant, which was demolished, and much of the debris was buried on the site. The original deep foundation plan called for timber piles, but this option was eliminated due to noise and vibration concerns for the nearby high-end condominium complex.



The engineer of record specified a minimum pile depth of 40 feet, although the soil borings were terminated at 33 feet. In addition, the engineer has originally specified that the Pulldown Micropiles would be cased using PVC. Most of the debris was encountered at depths ranging from 4 to 15 feet. Attempts to break through the debris and install the casing proved to be so difficult, the project was temporarily halted and alternative options were examined.



Frank D'Angelo, owner of Danbro Distributors - the Chance distributor for the region, recommended to the engineer that PVC casing for the entire pile length was not needed due to the existence of all the debris. His recommendation was to PVC case only the top 5 feet of the pile.



The engineer agreed with the recommendation, and the change significantly improved pile installation efficiency. Pile installation depths varied from the required 40 foot minimum to 70 feet in the area of a nearby stream.

In spite of tough installation challenges and another brutal winter in the Northeast, the project was successfully completed in late March and within budget.

[Click here to see a video of the project](#)

