

## Helical Pulldown Micropiles® Installed for New Elevator Foundation at a Challenging Jobsite



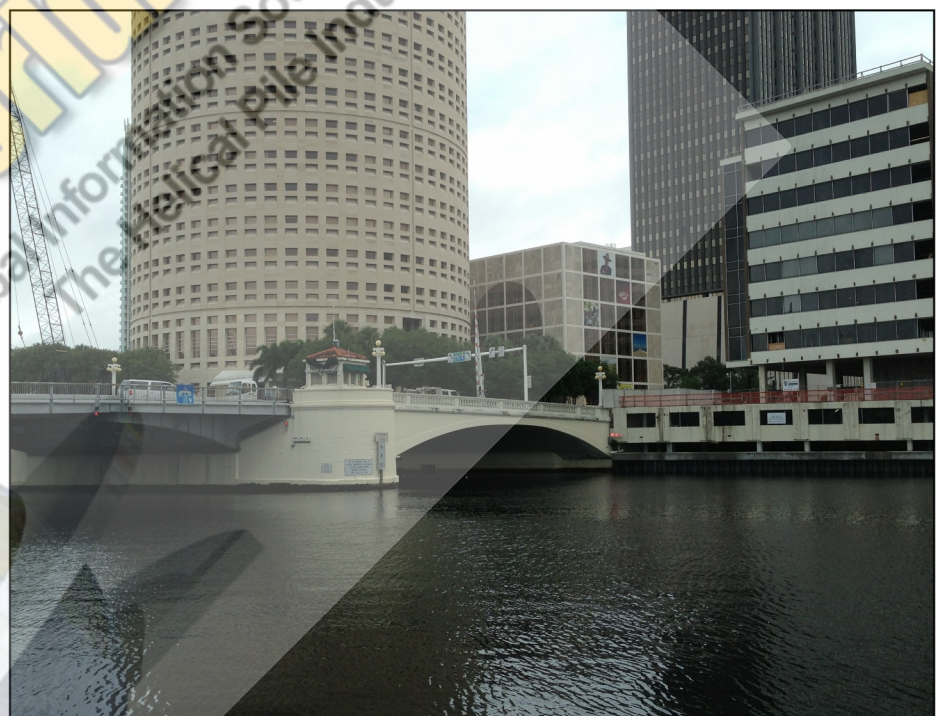
**Certified Foundations, Inc.**  
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<b>Project Name &amp; Location:</b>	Vacated Office Building on Riverfront Being Converted to a Hotel - Tampa, FL
<b>Project Date:</b>	October 2013
<b>Project Type:</b>	Helical Pulldown Micropile Foundation for Elevator
<b>Helical Pile Installation Contractor:</b>	Certified Foundations, Inc. - Lakeland, FL
<b>Structural Engineer:</b>	Belt Engineering - Tampa, FL
<b>Geotechnical Engineer:</b>	BTL Engineering - Tampa, FL
<b>Helical Piles Specifications:</b>	(3) A.B. Chance® Helical Pulldown Micropiles™; SS175 RCS with 8",10",12",14" Helicies; 11,000 ft. lbs. Maximum torque; 24 Ton Compression Working Load; 5" Grout Column
<b>Soils &amp; Embedment Depth:</b>	Sandy Soil; 25 ft. Average Embedment Depth
<b>Project Timeline:</b>	2 Days
<b>Helical Pile Manufacturer:</b>	A. B. Chance - Centralia, MO

### A Bank's Office Building No More . . . This Beautiful River Front Location Will Become the Site of a New Urban Hotel in Tampa, FL

Known as an adaptive re-use project, this vacant office building in one of the city's prime riverfront locations is currently undergoing a major renovation. A great example of the smart building trend, to foster the reclamation of wonderful architecture, the hotel will include 130 spacious, loft-like rooms, forward-thinking technology and a vibrant, social atmosphere for its guests; all in an ideal location along the Tampa Riverwalk, considered to be the landmark gateway to downtown.



Part of the restoration included a new elevator foundation for the hotel.

The original specs called for 6" pin piles to be used for the deep foundations, but Certified Foundations (CFI) representative Mike O'Connor decided to propose Chance Helical Pulldown Micropiles as a value engineered solution that would provide both a cost savings and a reduced project timeline.

The original plan called for using a 13,000 lb. excavator outfitted with drilling equipment to sit on the 1<sup>st</sup> floor in order to drill through the slab to the ground floor level so the helicals could be installed. This plan had to change due to a weight constraint, and CFI had to develop an alternative equipment and installation plan that called for all the equipment to be located in the garage at ground level.

This meant that all equipment had to fit through the access ramp that has a 7'4" height restriction. The roll cage on the excavator had to be removed so it would fit under the ceiling.

Once the core holes were drilled, and in order to accommodate the torque motor and helical piles, the CFI crew excavated the holes to a depth of 6' using post hole diggers. Digging the holes was challenging as there were steel plates and buried debris to avoid and work around.

The leads with four helix bearing plates were installed, and then 3' extensions were used until the minimum required torque of 8,000 ft. lbs. was reached at an average depth of 25 ft.

The project was successfully completed in two days.

