



# Structural Systems Repair Group (SSRG) Installing (21) Helical Piles for Harriet Beecher Stowe House Foundation Stabilization

Winter 2020



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<b>Project Name &amp; Location:</b>	Harriet Beecher Stowe House Underpinning - Cincinnati, OH
<b>Project Date:</b>	Winter 2020
<b>Project Type:</b>	Helical Pile Underpinning
<b>Helical Pile Installation Contractor:</b>	<b>Structural Systems Repair Group</b> , Cincinnati, OH
<b>Structural Engineer:</b>	<b>AGE, Inc.</b> Cincinnati, OH - <a href="https://agengineers.com/index.html">https://agengineers.com/index.html</a>
<b>General Contractor:</b>	<b>Structural Systems Repair Group</b> , Cincinnati, OH
<b>Helical Pile Specifications:</b>	(21) 2.875" O.D. Round Shaft Helical Piles with 10'-12" Helix Bearing Plates; (9) Ton Ultimate Compression Capacity; All Galvanized
<b>Soils &amp; Embedment Depth:</b>	Lean Clay; Average Pile Embedment 14 ft.
<b>Project Timeline:</b>	(8) Weeks
<b>Helical Pile Manufacturer:</b>	<b>Helical Anchors, Inc</b> - Minneapolis, MN

## About Harriet Beecher Stowe

This house was home to Harriet Beecher before her marriage to Calvin Stowe in 1836, and to her father, Rev. Lyman Beecher, and his large family, a prolific group of religious leaders, educators, writers and antislavery and women's rights advocates. The Beechers lived in Cincinnati for nearly 20 years, from 1832 to the early 1850s, before returning east. Shortly after leaving Cincinnati (and basing her writing on her experiences in Cincinnati), in 1851-1852 Harriet Beecher Stowe wrote the best-selling book of its time, Uncle Tom's Cabin, a fictionalized account of the pain slavery imposed on its victims and of the difficult struggles of slaves to escape and travel via the Underground Railroad to freedom in the northern states or Canada. Published just after the fugitive slave laws were enacted by Congress in 1850, the book made Harriet Beecher Stowe a household name. Uncle Tom's Cabin has been published in over 75 languages and is still an important text used in schools all over the world.

## Project Overview

Structural Systems Repair Group (SSRG), with headquarters in Cincinnati, OH, was contracted by the Ohio History Connection, to install (21) helical piles as a deep foundation system for the stabilization of the Harriet Beecher Stowe House in Cincinnati.

SSRG installed these piles in 7 ft. and 5 ft. sections to achieve the required capacity. These helical piles were part of an underpinning system designed for supporting the existing stone foundation of building. This system included concrete underpinning and grade beams with helical piles. Soils here are of high plasticity index and caused settlement in and around foundations over time.

