



## Structural Systems Repair Group (SSRG) Installs (70) Helical Piles for KAO Waste Water Treatment Plant in Cincinnati



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<b>Project Name &amp; Location:</b>	KAO WWTP – Cincinnati, OH
<b>Project Date:</b>	Spring, 2018
<b>Project Type:</b>	Helical Pile Deep Foundations for Wastewater Treatment Plant Building (PEMB)
<b>Helical Pile Installation Contractor:</b>	Structural Systems Repair Group, Cincinnati, OH
<b>Structural Engineer:</b>	Advantage Group, Cincinnati, OH - <a href="http://www.agengineers.com">www.agengineers.com</a>
<b>General Contractor:</b>	A.T. Redder & Company, Inc. - <a href="http://www.atredder.com/">http://www.atredder.com/</a>
<b>Helical Pile Specifications:</b>	(47) 2.875" Round shaft galvanized helical piles with 12", 14", 14", 14", 14" helix bearing plates; 25 Kip ultimate compression capacity (23) 2.875" Round shaft galvanized helical piles with 10", 12", 14", 14" helix bearing plates; 15 Kip ultimate compression capacity; battered
<b>Soils &amp; Embedment Depth:</b>	Stiff Silty Clay. Average Pile Embedment 30 ft.
<b>Project Timeline:</b>	Two Weeks
<b>Helical Pile Manufacturer:</b>	Helical Anchors Inc. - Minneapolis, MN



### Project Description

KAO USA, Inc. is building a new wastewater treatment plant for their facility in an industrial park in Cincinnati, Ohio. The pre-engineered metal building will be housed on approximately 4,400 sq. ft.



SSRG was contacted by A.T. Redder & Company to install (70) helical piles for the foundation of the building. SSRG crews faced minor difficulties in penetrating the piles through the fill layer that was comprised of brick fragments and concrete debris at a few column locations.



After discussions with the structural engineer, the direction of the battered piles was changed slightly to achieve the required pile embedment and capacity.

