



Structural Systems Repair Group (SSRG) Installing (82) Helical Piles for Distillery Renovations in OTR Cincinnati



Structural Systems Repair Group
2824 Stanton Ave.
Cincinnati, OH 45206
513-751-7774
www.ssrq.com

Project Name & Location:	OTR Stillhouse Distillery - Cincinnati, OH
Project Date:	May 2021
Project Type:	Helical Piles Deep Foundation System
Helical Pile Installation Contractor:	Structural Systems Repair Group, Cincinnati, OH
Structural Engineer:	JCA (Julie Cromwell Associates)
General Contractor:	Fedders Construction
Helical Pile Specifications:	(58) 2.875" OD helical piles with 12",14", 16",16", 18" helix bearing plates and (24) 3.5" OD helical piles with 12",14", 16",18", 18" helix bearing plates 40 Ton ultimate pile capacity
Soils & Embedment Depth:	Average Pile Depth 40 ft. Very loose sands with N-values between 1 and 10
Project Timeline:	3 Weeks
Helical Pile Manufacturer:	Helical Anchors, Inc. (MN)

Project Overview

SSRG was contacted by Fedders Construction to propose a helical pile foundation system for new addition building due to the poor soils at project site. Helical piles with 5-helix plate configuration were proposed as an effective solution to achieve required capacities in this type of soil. (58) helical piles were installed for the new building addition and (24) helical piles for new canopy at the Distillery. SSRG installed few production test piles initially in April to assess the soil bearing conditions and potential obstructions onsite. Due to the canal that used to run adjacent to the jobsite years ago, there were concerns for soil bearing as there was considerable rubble fill. Torque monitoring results from the production test piles helped significantly in confirming the pile configuration needed to achieve the capacities.

