



TEK Helical Piles Installs (290) Helical Piles at the ECA Shawville Meter Station, Shawville, PA

Summer, 2016



TEK Helical Piles
Lawrence, PA
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Project Name & Location:	Shawville Meter Station - Shawville, PA
Project Date:	Summer, 2016
Project Type:	Helical Pile Supports
Helical Pile Installation Contractor:	TEK Helical Piles - Lawrence, PA
Engineering Co. / Building Supply-Install	CSD Engineering . - Pittsburgh, PA (piles); AECOM - Denver, CO (station)
Energy Company:	Energy Corporation of America - Charleston, WV
Helical Piles Specifications:	(57) 3" dia. .25" Wall Hollow Square Tube; 8",10" Helix Bearing Plates with 3" dia 25" Wall Extensions; (226) 3" dia Wall Hollow Square Tube with 4" dia .375" Wall Extensions; (7) 4" dia .375" Wall Hollow Square Tube ; All Piles with 8",10" Helicies; All Piles Installed to 4500-7000 ft. lbs. Torque; Galvanized
Soils & Embedment Depth:	Pad Consisted of Compacted Clay Fill with Shale and Sandstone Fragments; Installation Depths Ranged from 6' 9" to 15 Feet
Project Timeline:	June 1 - August 5
Helical Pile Manufacturer:	Empire Piers - Winfield, MO & Heli-Pile, Denver, CO

Project Description

ECA contracted TEK to design/supply/ install (290) helical pile foundation supports for their Shawville Meter station as part of converting an existing NRG coal fired power plant to a Natural Gas fired plant. Supports are for piping, equipment and a pre-engineered canopy. Installation was completed in 2 months with one crew. Due to a small work area, the TEK crew could not get too far ahead with pile installation without blocking in the mechanical contractor. Sequencing and communication / coordination on a daily basis with all other trades and ECA was essential to complete the project successfully and on time. There were a total of (16) different pile and pile cap configurations installed based upon loading specifications. Due to the potential of lateral loading on the pipe, some piles were incased in a concrete collar 2-3 ft. below grade.

