Subsurface Constructors

Ground Improvement

Laurel/Rolling Hills Wind Farm



Together, the Rolling Hills Wind Farm in Massena, Iowa and the nearby Laurel Wind Farm provide more than 550 megawatts of power and are some the largest single-phase wind farms in the U.S. Subsurface Constructors installed 7,800 vibro stone columns across a massive, sprawling area to deliver a maximum bearing pressure of 2,500 pounds per square foot. The site consists of loess underlain by deep glacial till with a depth range of 5 to 30 feet

Project details:

Owner: MidAmerican Energy
Geotechnical Engineer: Barr Engineering
General Contractor: M.A. Mortenson
Structural Engineer: Barr Engineering
Services Provided: Ground improvement, stone columns
Year: 2011
Location: Massena, Iowa