

# Subsurface Constructors

Ground Improvement

## North Charleston Creative Arts Elementary



In 2011, the Charleston County School District established the North Charleston Creative Arts Elementary School, a partial magnet school to serve the students of North Charleston. Shortly after the school opened, the district opted to build a new facility, but the chosen site required extensive ground improvement work. Subsurface Constructors designed and installed 1,625 [vibro stone columns](#) for liquefaction mitigation, delivering a maximum bearing pressure of 3,000 pounds per square foot. The site consists of clean sands and silty sands at a depth of about 30 feet.

### Project details:

**Owner:** Charleston County School District  
**Geotechnical Engineer:** S&ME  
**General Contractor:** Hill Construction  
**Structural Engineer:** ADC Engineering  
**Services Provided:** Ground improvement, stone columns  
**Year:** 2014  
**Location:** North Charleston, South Carolina