

# Subsurface Constructors

Ground Improvement

## IKEA St. Louis



When IKEA elected to open a store in St. Louis, Missouri, they selected a site in the heart of the city, but it required significant ground improvement. Subsurface Constructors installed 5,992 [vibro stone columns](#) to improve the existing soil and delivered a maximum bearing pressure of between 1,500 – 4,000 pounds per square foot. The site consisted of lean clay and sandy clay overlain by miscellaneous fill.

### Project details:

**Owner:** IKEA

**Geotechnical Engineer:** SCI Engineering

**General Contractor:** SM Wilson

**Structural Engineer:** KJWW

**Services Provided:** Ground improvement, stone columns

**Year:** 2014

**Location:** St. Louis, Missouri