

Ohio Health Garage



Ground improvement with vibro stone columns on large parking structure

Located west of the Olentangy River in Columbus, Ohio, the Ohio Health Garage is a five-tier parking structure designed to accommodate over 1,325 vehicles. The site was originally comprised of a low-lying floodplain and was eventually infilled to create “buildable” land.

Subsurface Constructors designed and installed an aggregate pier [ground improvement system](#) consisting of 825 [vibro stone columns](#), each 20 feet deep. The ground improvement system met the project design requirement of a 6,000 pounds per square foot (psf) bearing pressure while limiting post-treatment potential total settlement to less than 1.5 inches.

Project details:

Owner: Ohio Health

Geotechnical Engineer: Geotechnical Consultants, Inc.

General Contractor: Dugan & Meyers Construction Co.

Structural Engineer: Walker Consultants

Services Provided: Ground improvement, stone columns

Location: Columbus, Ohio