



SUBSURFACE CONSTRUCTORS, INC.

Full Service Geotechnical Contractors and Ground Improvement Specialists

Ground Improvement



St. Peters Rec Plex Expansion – St. Peters, Missouri

PROJECT DESCRIPTION

This project involved an \$18.5 million expansion of the existing Rec Plex recreation and sports facility in St. Peters, Missouri. The 125,000 sq. ft. addition nearly doubled the size of the original Rec Plex, which hosted the diving trials for the 2004 Olympics.

Upon a geotechnical investigation, soils at the site were found to be engineered fill overlying soft to stiff silty clays. Beneath the silty clays was a stiff to very stiff shaley clay to shale layer. Foundations for the structure were to be shallow footings supported by a ground improvement system providing a post-treatment bearing capacity of 3,000psf.

Subsurface installed 497 stone columns without pre-drilling, therefore little to no spoils were generated. This method was especially favorable due the wet and cold construction conditions. Two modulus tests were performed to confirm that design parameters were met or exceeded.

PROJECT TEAM

Owner:	City of St. Peters, MO	Geotechnical Engineer:	SCI Engineering
Structural Engineer:	KPFF Consulting	General Contractor:	Walton Construction
Ground Improvement Design/Builder:	Subsurface Constructors, Inc.		