Northshore Elementary -
Knoxville, TN

Foundation Stabilization and Slab Lifting

GROUND WORKS SOLUTIONS

Project Challenges	Solution	Support	Outcome
• Settlement of foundations and slabs in a section of a new school building **under construction**. • Bearing capacity of soils was reduced due to subsurface water flow. A 54" RCP storm line was removed during construction, but water continued to follow pipe bedding materials.	• Stabilize foundations and thickened slabs using Uretek Deep Injection. • Fill voids and lift floating slabs using the Uretek Method. • Sheet piling (by others) was installed to cut off the flow of subsurface water outside of the footprint of the building.	• Pre-Estimate site visit and meeting with general contractor. • Reviewed soils reports, structural and architectural drawings, and request for proposal. • Designed injection quantity and depth.	• **Minimal intrusion:** Work performed in three days with no excavation and no delay to the construction schedule. • **Soils stabilized:** Soils stabilized to prevent future settlement in the foundations and slabs. • **Slabs leveled:** Slabs in classrooms were leveled to minimize floor leveling costs.