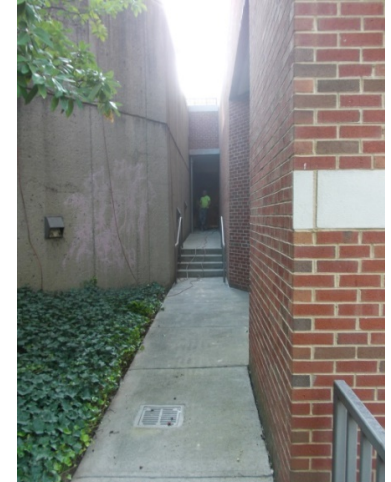


University of Tennessee – Law Building

Knoxville, TN



Stabilize Cast-in-Place Retaining Wall, Fill Voids Under Sidewalk Slab

Project Challenges	Solution	Support	Outcome
<ul style="list-style-type: none"> • Cast-in-place retaining wall settling vertically because it was constructed on unsuitable fill materials. • Building constructed with deep foundation system; differential settlement stressing the connector bridge. • Part of the work to be performed in the egress route. 	<ul style="list-style-type: none"> • URETEK Deep Injection Process to stabilize and increase bearing capacity of soils below the retaining wall footing. • URETEK Method used to fill voids below the sidewalk. Voids were discovered during drilling for foundation stabilization work. 	<ul style="list-style-type: none"> • Schematic budget provided to geotechnical engineer and CH2M-Hill for analysis versus micropiles. • Provided bid specifications and recommended quantity for basis of unit price bid. • Designed injection quantity and depth. 	<ul style="list-style-type: none"> • Minimal intrusion: Work performed during a weekend to comply with fire marshal requirements for obstructing egress route. • Soils stabilized: Soils stabilized to prevent future settlement. • Cost Savings: Significant cost savings versus other systems.