

# Jackson Elementary School

## Plant City, FL



| Project Challenges  | Solution  | Support  | Outcome   |
|---|---|--|---|
| <ul style="list-style-type: none"> <li>• Settlement of floor area in elementary school building</li> <li>• Evidence of distress to interior walls and plumb of doors to adjacent spaces</li> <li>• Geotechnical Report identified voids and weak soil under slab</li> <li>• GPR Report identified remains of a previous foundation beneath the existing foundation</li> </ul> | <ul style="list-style-type: none"> <li>• Lay out a vertical grid pattern over the affected area.</li> <li>• Drill holes through the floor to accept injection tubing to strategically treat three elevations within the weak soil zone.</li> <li>• Inject URETEK 486STAR (rigid structural geotechnical polymer) to restore load-bearing soil properties</li> </ul> | <ul style="list-style-type: none"> <li>• Perform work during school recess period to minimize disruption to school functionality</li> <li>• Implement continuous laser monitoring system to prevent unintended lift</li> <li>• Work through multiple slabs and still accomplish adequate application of polymer</li> </ul> | <ul style="list-style-type: none"> <li>• Problem permanently solved in one work shift resulting in stabilized base soils providing firm foundation to slab</li> <li>• No interruption to school functionality as work was performed during recess</li> <li>• Close laser monitoring resulted in exact finish elevation of the floor slab</li> </ul> |