



SITE MIX

Case Study - Soil Stabilization

Pressure Grouting, LLC

Instant Roadway Rescue with AP Lift 475

A South Georgia roadway developed a sinkhole over a double 48-inch RCP storm line about 10 feet deep, threatening lane safety and mobility. Replacement costs were prohibitive and would require extended closure and excavation.

Initial Assessment

The pipe exhibited joint leakage and surrounding soil loss, creating voids under pavement and shoulder with settlement risk across the travel path. Traditional open-cut replacement would demand deep shoring, traffic detours, and high restoration costs, making trenchless stabilization preferable. SiteMix Pressure Grouting LLC was called in to do the work.



Proposed Solution

We selected AP Lift 475 for hydrophobic chemistry, industrial strength, and rapid set to encapsulate pipe exteriors, seal soil paths, and rebuild bearing capacity with minimal downtime.

Procedures

1. Lay out three rows on 3-foot centers around both barrels.
2. Inject at 6 lb per vertical foot to refusal for soil reconsolidation.
3. Pull the injection tubing vertically while injecting to form grout columns.
4. Encapsulate/seal pipe perimeter and monitor lift response.
5. Verify surface support and closure readiness.

Results

- Completed in one day with 1,400 lbs placed; roadway lifted and voids eliminated.
- Zero excavation and minimal traffic disruption during work.
- Approximately 95% cost savings compared to pipe replacement.

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