



CASE STUDY: UMA was contacted in July 2020 because Pinnacle Bank was experiencing extensive settlement and rotation due to poor soils collapsing under a portion of the bank and drive-through lanes

The Customer
Pinnacle Bank

Location
Asheville,
North Carolina

Type
Commercial

**Date of Project
Completion**
November, 2020

Interesting Fact
UMA completed work in the bank and drive-through lanes without interrupting the bank's normal operations.

HIGH-DENSITY POLYURETHANE RESIN (HDPR) INJECTION

THE PROJECT

A deteriorated corrugated metal pipe (CMP) had caused the sinkhole. Since the bank was still in operation and could not close down for the work, UMA had to make sure that work did not interfere with normal bank operations or hinder the customers of service in any way. Injecting High-Density Polyurethane Resin (HDPR) via UMA Deep Injections (UDIs) was ideal because it is non-invasive.

THE CHALLENGE

UMA was made aware that settlement caused by a sinkhole had caused visual separations on the exterior of the building, a crack in the slab, and cracking of drywall, and movement of ceiling tiles.



CASE STUDY

THE SOLUTION

UMA began work after the new CMP was installed and sinkhole was backfilled. Based on the geotechnical report, UMA decided to inject its High-Density Polyurethane Resin (HDPR) via UMA Deep Injections (UDIs) to a depth of 12 feet below grade based on the depth of the pipe and the extent of the sinkhole.

THE RESULTS

UMA's deep injections recovered the settlement within the building, leveled the structure, and close the observed gaps. UMA made sure the work did not interfere with normal bank operations or customer service. We limited construction inside of the bank and within the drive-through lanes by scheduling work on a holiday to avoid normal operating hours. UMA injected a total of 8,547 pounds of material over six days and was able to consolidate the soils and recover some lift within the building.



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