

## Street Repair Missouri City, Texas

**Problem:** Missouri City, Texas had deep dips on two roadways over a canal. Nearly 20 years of erosion had created depressions so deep in the street that vehicles bottomed out as they drove over the canal. Axle-deep ponding during rainstorms complicated access to the subdivision. Missouri City Department of Public Works decided that a quick solution would be the optimal solution.

**Factors for Consideration:** The canal was originally formed by two boxcars, welded together to form a makeshift culvert. Several repair options were considered by Missouri City Public Works. The cost of removing and replacing the railroad tank cars with bridges was proposed at \$620,000 to \$720,000. Mudjacking to fill the voids was estimated at \$120,000, but would have only created more problems by adding weight to the soils underneath the road.. All of these options were out of the question for Missouri City. The URETEK Method could be employed faster and cheaper than any other repair technique.

**Method/Process Applied:** The URETEK Method uses a two-part polymer called URETEK 486. Injection holes are laid out in a systematic pattern to maximize the polymer's lifting capabilities. Once injected under the slab, URETEK 486 expands upward, lifting pavement surfaces back to grade. Within fifteen minutes, the material reaches 90% of its strength.

**Result:** The URETEK crew drilled through the concrete, injected the expanding polymer, and lifted the slab back to grade, eliminating the dips. The URETEK Method filled the voids in the crossings' eroded bases, provided a new base, raised the streets to their original elevations, and reestablished positive drainage along gutter lines.

**Benefit:** URETEK USA effected a permanent solution to Missouri City's road settlement problem at 62 percent of the proposed cost of mudjacking. In two weeks, the URETEK team completely re-leveled a road on the verge of collapse with a minimum of disruption to the neighborhood residents.

**Inexpensive, Fast, Quiet, Effective,  
Pavement Lifting and Soil Stabilization. CONTROL.**



**Before (1993)**



**After & Today (2003)**