

## Structure S-46



Structure Restoration - Concrete Repair

### **Project Location:** Jupiter, Florida

Structure S-46 in Jupiter, Florida maintains approximately a 15 foot water elevation difference on a canal. In February of 2002, the structure began “piping” water under the structure and carrying the substrate from under the structure with it. UESI was contracted to perform emergency services to core drill the floor and install a urethane repair product, “Mountain Grout,” to repair areas of concern. The divers core-drilled 2-inch-diameter holes in the floor of the structure then pumped the urethane repair material through ports to shut off the “piping.”

In 2003, UESI was contracted to repair a smaller piping problem which was not carrying substrate with it. In 2004, UESI was contracted to repair spalls behind a gate track with active water leaks. Elements of work included preparation of the spall with lightweight demolition equipment and application of a corrosion inhibitor to the existing rebar. A urethane based product was used to shut off the leaks to allow for proper repair. The patch material was a polymer-modified cementitious grout.

Completion Date: March 2004

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