

CINCO RANCH – WILLOW FORK TRIBUTARY

PROJECT NAME AND LOCATION:

The project is located just south west of mason road and north of Fry road at the divergence of Willow Fork Tributary and the Willow Fork Diversion Channel, in Cinco Ranch.



Engineer:

The engineer of record on the project was Turner, Collie and Braden, Inc. out of Houston, TX.

Contractor:

The General Contractor on this project was Champions Hydro-lawn, Inc. out of Houston, TX. The project was a maintenance project for the MUD District At Cinco Ranch.



Project Description:

This project consisted of repairing a scour pit that had formed in front of the slope paving at the divergence of the two channels. The slope paving was located on the cut side of a curve that had generated a 6-foot scour pit in front of the slope paving. The scour pit had gotten deeper than the toe wall and had threatened the stability of the paving. This was the second time that this had happened; the first had resulted in catastrophic events that resulted in replacement of the paving for \$114,000.00 5 years ago. The A-JACKS® were put in a 2-1 configuration and were backfilled with 3x5 inch rock thus stabilizing the toe and eliminating the scour. The project was installed in a day once a suitable foundation was established. The 432 units were put in along the toe for 120' to protect the scoured area. The results were that the scour was eliminated and the slope paving is once again stabilized.

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Points of Interest:

- Project was fast tracked to be installed quickly and product was on the ground in 5 days!
- The 24" A-JACKS that were used weigh 80 pounds each and could be placed by hand by any crew, thus cutting down on installation cost.
- Once the site was prepared the A-JACKS were placed and backfilled in a ONE DAY!!
- No other maintenance is expected to be needed at this location.
- The A-JACKS option at this location as opposed to Concrete: **Concrete Option (estimated)= \$75,000.00**
Was put in at a cost savings of: **A-JACKS Option = \$30,000.00**

