



# CASE HISTORY

*SAFEBASE™ 2.875" STANDARD DUTY PUSH PIERS*

## **BIG CREEK BRIDGE FOOTING STABILIZATION USING SAFEBASE™ PUSH PIERS**



It's not every day that a foundation repair company gets to take a boat ride to their job. On December 2nd and 3<sup>rd</sup>, 2015, Anchored Walls Inc. did just that.

It all started with a call that came into the office from Richard Busch with the Army Corps of Engineers. A situation had been brought to their attention concerning an exposed pedestrian bridge footing. Anchored Walls had worked on a visitor center for them some years back and they thought this project would be something that we could help with.





A site visit revealed that one of the four footings had an undermining issue. To prevent any further soil loss rip rap would be placed on the failing slope. In addition it was decided that 4 push piers be installed on the face of the footing. Another on the narrow side would be installed with a 30 degree batter. Although this won't do anything for load it will prevent any future downhill movement.

Flush mount brackets were to be used so that no additional soils would have to be removed from under this footing. The reinforcing tubes (outserts) were increased to 72" in length to account for the increased distance from the bracket to the soil below. 3/4" x 8" redhead bolts with epoxy were used to attach the brackets to the footing. All materials were also galvanized.



Installation went very smoothly with the piers reaching a 30 to 40 foot depth and pressures slightly above 4,000 psi or 38,000 lbs of force. Lift cylinders were then attached and movement was observed at slightly less than 9,000 lbs of force. The safety factor was greater than 4.

"I would like to thank Patrick Nevison and the Safe Base team for the information needed to satisfy the corps demands. Jim Hale and the Main Street fabrication crew for manufacturing the products and getting them to us in a timely manner. The group effort is what makes us all successful. "



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