

Emergency Scour Repair

US 12 COAL CREEK BRIDGE NEAR PACKWOOD

While performing a routine bridge inspection on Bridge 12/278, located on US 12 near milepost 135.16, a WSDOT bridge inspector discovered a significant void under the pier 3 footing.



Forms and grout ports were used to fill the void under the pier 3 footing.



The WSDOT dive team investigated further and determined a significant portion of the original pier 3 spread footing was undermined. To ensure motorist safety -- and prevent further damage to the bridge -- the two lanes on the bridge were shifted to the north, keeping vehicle loads off the undermined footing while WSDOT Southwest Region maintenance crews completed the emergency scour repair.

Crews repaired the pier by filling the void under the pier 3 footing with grout and placing heavy, loose riprap around the piers and along the banks. The void was filled “in the wet.” Form boards were attached to the existing footing and supplemented with sandbags. An “anti washout” admixture was added to the grout to prevent it from mixing with the creek water.

The void under the footing was discovered on March 1, 2016, and was filled with grout on April 20, 2016. Riprap placement was completed by May 5, 2016. All repair work was completed by WSDOT Southwest Region maintenance crews. Total repair costs: \$131,480.



Completed scour repair.

MORE INFORMATION

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