



Page, Arizona

PROJECT

US Highway 89/ SR 98/ Navajo Route 20

LOCATION

Page, Arizona

PRODUCT

Tensar TriAx® 130s

QUANTITY

583,000 square yards

OWNER

Arizona Department of Transportation

CONTRACTOR

FNF Construction

ENGINEER

Arizona Department of Transportation Materials

INSTALLATION DATE

June/ July 2013

PROJECT DETAILS

After a land slide occurred in the spring of 2013 the Federal Highway Administration funded this emergency bypass route so that repairs could begin on the collapsed portion of Highway 89. Navajo Route 20, the new bypass needed 13 miles of asphalt overlay and 27 miles of newly constructed road. The subgrade on the project was mostly a poorly graded sugar/ blow sand that became highly collapsible without the presence of moisture. The layer of TX130s was designed into the road section by ADOT's Materials and Pavement group in order to accomplish several things. First it aided in construction by locking the thin aggregate base layer together, bridging the unstable areas and providing for a stable consistent construction platform. Material costs on this large project were a driving factor as well. Using the TX130s geogrid saved over 2 million dollars in aggregate base and trucking costs. Lastly the structural benefit of the grid will increase the design life of the road by over 3 times.



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PROJECT PERFORMANCE

As part of Tensor's continued validation the TotalPave® is used to measure the performance of the projects. In 2019 after 6 years in service measurements indicate that the roadway is performing well with good PCI readings and IRI reading typically below 100 inches per mile.

