

HIGHWAY 94 - CALIFORNIA

California Department of Transportation Automated High Friction Surfacing Treatment

Caltrans has over 239 selected HFST site locations statewide. The highway agency first installed HFST on Highway 20 near White Cloud several years ago to study the process's ability to withstand high ADT (Average Daily Traffic), heavily laden trucks and inclement weather.

The agency selected a known crash location on a horizontal curve where off road incidents were the norm until the installation HFST. The dramatic increase in pavement surface friction and corresponding reduction of crashes and serious injuries justified further investigation.

Caltrans has one of the most stringent HFST specifications in the country with an on-site QA/QC program that has been adopted by other highway agencies. With a ground-breaking program that includes private industry experts ("the A-Team"), the agency and the FHWA, this panel of experts promotes educational seminars, webcasts and on-location HFST demonstrations to bring awareness throughout the state.

Project Highlights

DBi Services operates a fleet of engineered customized HFST application trucks that are compliant to the agency's HFST specification.

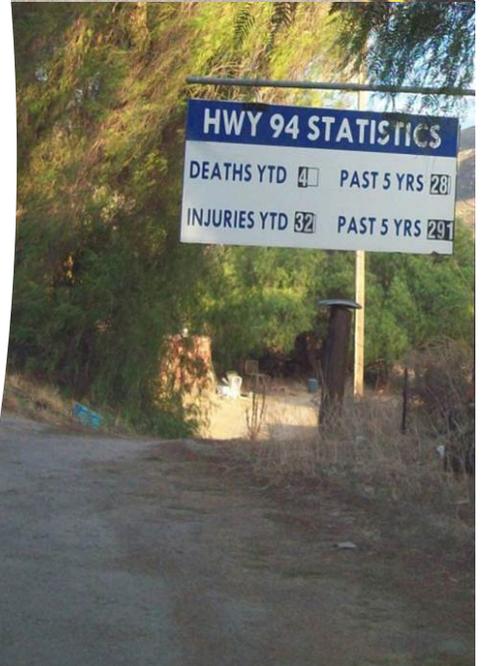
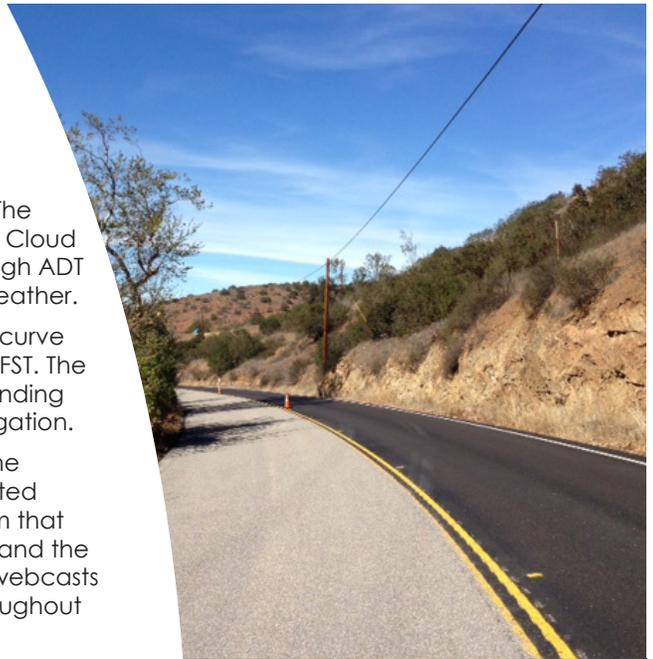
Throughout the state, DBi Services has performed high-profile installations, including Highway 94 in Southern California, a notorious crash prone highway.

Relevant Experience Gained

- Repaved the highway with a combination of asphalt and rubberized particles (rubberized pavement).
- Coordination with all contractual services for the smooth operation of the project, with continuous heavy truck traffic, a border patrol crossing station and several subdivisions and local businesses along the installation route.
- Ability to meet the stringent Caltrans HFST specification parameter.

Value to Customer

- Santa Cruz installation crash reduction decreased from 228 to 2 after the installation of HFST.
- I-105 on-ramp near LAX Airport Highway Patrol would previously close the ramp during rain events; after the installation of HFST, the ramp has remained open with no further crashes.
- Highway DN-199 realignment cost \$14 million to mitigate crashes on a series of curves; HFST installation cost \$250,000.
- Fully-automated, specification-compliant application trucks.
- Safe, predictable, fast and continuous application.



High Friction Surfacing Treatments are eligible for federal and state funding through HSIP (Highway Safety Improvement Programs)