

Effect of Polymer Modified Asphalt Binders on the Performance of the Asphalt Concrete Mixes in Hawaii

Principal Investigator:

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Project Sponsor:

JoAnne Nakamura

Need:

Reduce repair and maintenance costs for Hawaii's roads.

Objective:

Improve performance and longevity of Hawaii's roads by using modified asphalt mixtures.

Duration:

January 16, 2004 – January 15, 2007

Cost:

\$162,342

One-year, no-cost extension granted for project.

Update:

- Prepared asphalt concrete mix specimens and tested them to obtain Dynamic Modulus (E^*) and Flow Number (FN)
- Plan to prepare additional specimens for E^* and FN testing and beam specimens for fatigue testing
- Plan to test limited additional specimens for Tensile Strength Ratio (stripping)
- Will start the pavement design sensitivity and life cycle cost analysis