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RESEARCH UPDATE

Update U97-15

PAVEPREP CRACK REDUCTION INTERLAYER

REFERENCE:

WP 94-R-19, U94-11, U95-7, U96-14

HISTORY:

During the construction season of 1994, PavePrep Crack Reduction Interlayer was applied on three separate projects. This material consists of a high density asphaltic membrane laminated between a nonwoven polyester geotextile and a woven polyester geotextile. The material is available in 102 foot roll lengths for widths of 12" and 20", as well as 48 foot roll lengths for 36" and 40" widths.

FIELD LOCATIONS:

The product was applied over a single shoulder-to-shoulder continuous transverse crack at each of the following four locations:

VT 100	Lowell	MM 3.26 and MM 6.13	June 1994
US 7	Highgate	MM 3.6	July 1994
US 5	Hartford	MM 3.13	October 1994

Initial crack widths were provided in report U95-7.

OBSERVATION:

Each of these sites was inspected during the spring and summer of 1997. Cracking at test site 3.26 in Lowell has increased from ten to fourteen feet over the past year. Ten feet was present in the northbound lane with the remaining four feet in the southbound lane. The length of the original shoulder-to-shoulder crack at this location was 22 feet. Numerous other reflective cracks were present in the control section adjacent to Lowell test site 3.26, with none being longer than 11 feet. No evidence of cracking was noticeable at test site 6.13 in Lowell or at the test sites on the other projects.

FOLLOW-UP:

Performance monitoring will continue for the life of these projects, with an emphasis on reflective cracking identification.