



MATERIALS & RESEARCH DIVISION

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Page 1 of 1

RESEARCH UPDATE

NUMBER U90-6

3M 350 TAPE ON OPEN GRADED PAVEMENT - I 89 COLCHESTER

(FINAL)

REFERENCE: Work Plan 88-R-4, Update U88-10, Update U90-2

HISTORY:

During repaving of a section of I 89 (Project Colchester IR 089-3(14)), an experimental durable pavement marking, 3M 350 Tape, was specified for the 10' x 4" white dashed centerlines. Control was to be edgelines which were painted with standard traffic paint.

The application of the experimental product occurred during July of 1989. Fifteen thousand nine hundred LF of 4" white line was applied between milemarkers 92/00 and 98/00 on both northbound and southbound lanes.

Performance through January 4, 1990 was reported in Research Update U90-2. By January 4 there had been a 33% loss of product on the northbound lane and a 12% loss on the southbound lane. Later that month a Vt. Agency of Transportation pavement marking crew repainted the lost dashes.

STATUS:

On April 9, 1990 a final inspection was performed. The loss of product had increased to 64% on northbound and to 35% on southbound.

COST:

The price for this product was \$1.50 per LF. installed for a total cost of \$23,850.00.

CONCLUSIONS:

The percentage of 3M 350 pavement marking tape lost after only seven months is unacceptable. Further use of 3M 350 Tape on open graded friction courses is not recommended.

FOLLOW UP: No further evaluation is expected.