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DEMO STUDY 1-27-80-543

Placement and Evaluation of a Seal Coat
Using Emulsified Asphalt

F.M. 2157

Control 1990-1

Erath County

INTERIM REPORT NO. 2
July 23, 1982

Report No. 543-3

POST CONSTRUCTION PERFORMANCE

A study was made on this project and the information gathered is as follows:

MAJOR PROBLEMS

As noted in Interim Report No. 1 there are no major distresses or failures found. Although due to heavy truck traffic for a period of time and an unusual amount of rainfall during the spring and summer, a minor amount of depressions developed in the west bound lane. These depressions were corrected by placing a premix overlay as a levelup.

Some bleeding or flushing developed during the very hot days of summer. The bleeding or flushing was mainly caused by the heavy truck traffic mentioned above and on the areas that had received a premix overlay for levelup, prior to the application of the Seal Coat. To control the bleeding of the surface during the summer of 1982, the Maintenance Department applied Type B Grade (Special) aggregate to the areas of concern at various times as needed.

There appeared to be no further loss of surface aggregate and after close inspection cracking of the surface was not observed.

SKID RESISTANCE

As was previously stated in the Initial Report, the Seal Coat

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was applied on July 29, 30, 1980. On August 11, 1980, a skid test was made on the project in both lanes of travel at one half (1/2) mile intervals. Results are as follows:

EAST BOUND
(25 Tests)

LO - 39
HI - 42
AV - 40

WEST BOUND
(25 Tests)

LO - 39
HI - 42
AV - 40

On June 15, 1981, one more skid test was made at one half (1/2) mile intervals and the results are shown below:

EAST BOUND
(26 Tests)

LO - 24
HI - 56
AV - 43

WEST BOUND
(27 Tests)

LO - 30
HI - 53
AV - 41

On June 15, 1982, one more skid test was made in the same manner as above and the results are as follows:

EAST BOUND
(25 Tests)

LO - 31
HI - 61
AV - 46

WEST BOUND
(25 Tests)

LO - 27
HI - 48
AV - 40

OBJECTIVES

Waterproofing qualities of the pavement is in good condition. The objective of the Seal Coat was accomplished and remains stable.