

OFFICE MEMORANDUM



MICHIGAN
STATE HIGHWAY DEPARTMENT

November 8, 1965

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To: TRAFFIC CONTROL DEVICES COMMITTEE:

H. H. Cooper, Chairman
J. J. Becker
J. L. Byers

W. W. McLaughlin
H. J. Rathfoot
F. W. Gillespie

From: E. A. Finney

Subject: Progress Report on Thermoplastic Pavement Markings on W. P. Chrysler Freeway (Projects BI 82111C, C24; BI 82251C, C34). Research Project 47 G-36 (17a). Research Report No. R-560.

In accordance with the concluding statement in the earlier report on this marking material (Research Report No. R-481, dated November 9, 1964), Research Laboratory Division personnel made a second inspection on October 7, 1965, after about 15 months of service.

They report the following current conditions:

1. Ramps from westbound Ford to southbound Chrysler, and from eastbound Ford to southbound Chrysler, show very little loss of striping. The existing loss generally occurred as several inches of fraying on the leading length of striping facing traffic.
2. Lane striping on the Chrysler showed occasional slow, progressive loss of some striping (Figure 1), confined mostly to the Gratiot-Mack area. The most extensively deteriorated area (Figure 2) showed about 50-percent loss of striping. It is estimated that less than 5 percent of the total striping has been lost by fraying.
3. Supplementary edge striping was generally in very good condition, although occasional shrinkage cracking is now appearing.

After 15 months of service the striping was rated as generally having a satisfactory appearance despite an increasing loss of some lane striping by a fraying mechanism, and a perforated appearance (Figure 3) resulting from expansion of original gas inclusions. Eventually, the lost striping may require replacement under the guarantee provisions of the specifications. A night examination of the striping was not made. Continuing inspections will be conducted and reported.

OFFICE OF TESTING AND RESEARCH

E. A. Finney

E. A. Finney, Director
Research Laboratory Division

cc: J. E. Meyer

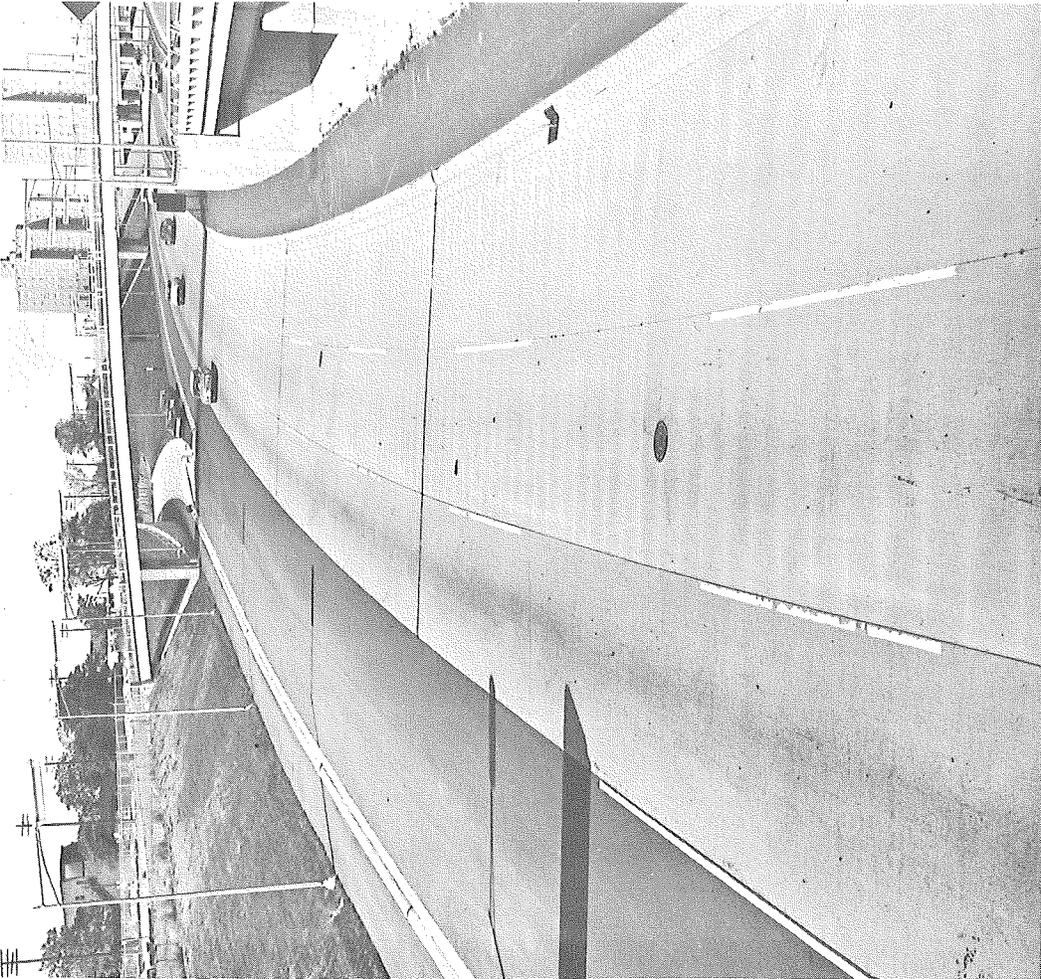


Figure 1. Appearance of 15-month-old striping on southbound Chrysler in the Gratiot-Elizabeth area. Left lane line shows minor fraying, and the right lane line shows less fraying. Edge line is in very good condition.

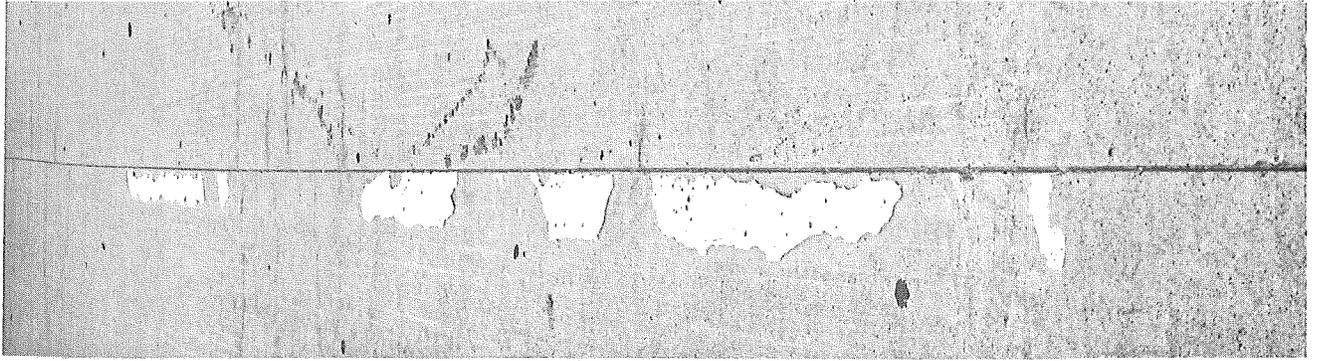


Figure 2 (right). Badly frayed length of striping after 15 months of service on southbound Chrysler in Division Street area.

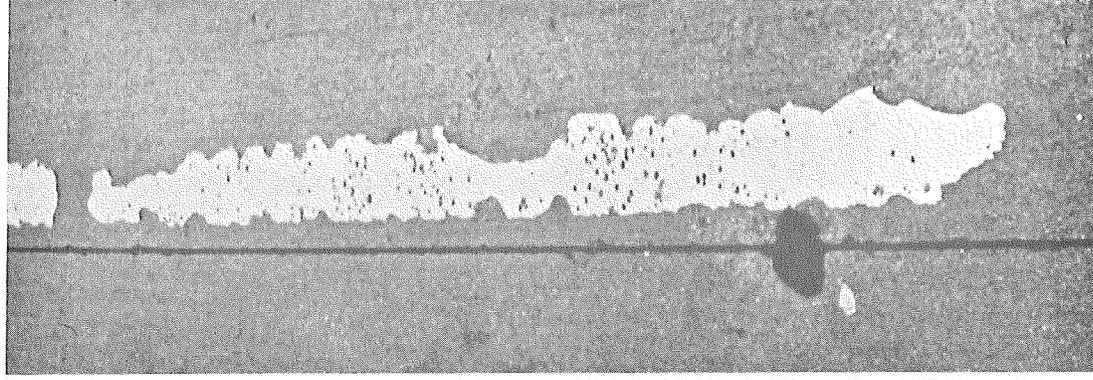


Figure 3. Original gas inclusions expanded into pores after 15 months of service, in striping on northbound Chrysler near Elizabeth Street.