

Life on the Edge

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FHWA





CREST MOTOR SALES

RPM
CAR COMPANY

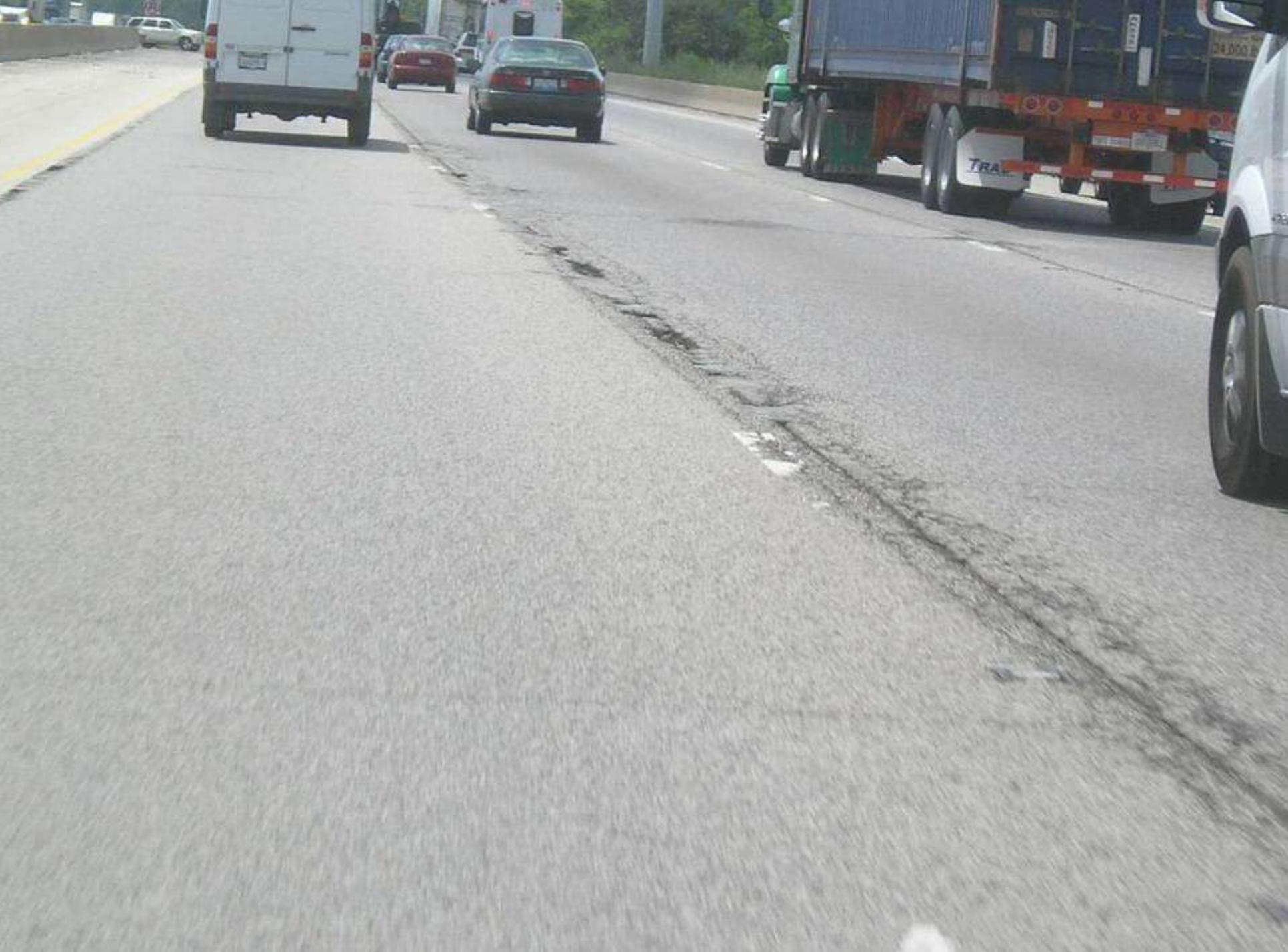
MIDTOWN
Firestone

MICHELIN

SPEED
LIMIT
40











CAR WASH







CHI 174A
CHI 174B
CHI 174C

Chicago St. Louis Kansas City

85

How many years?



How many years?

GOLF
SCOUT
OF SPRINGFIELD

DAWOL'S

USED
AND CALL

Best Brand Plus

HIGHPOOL







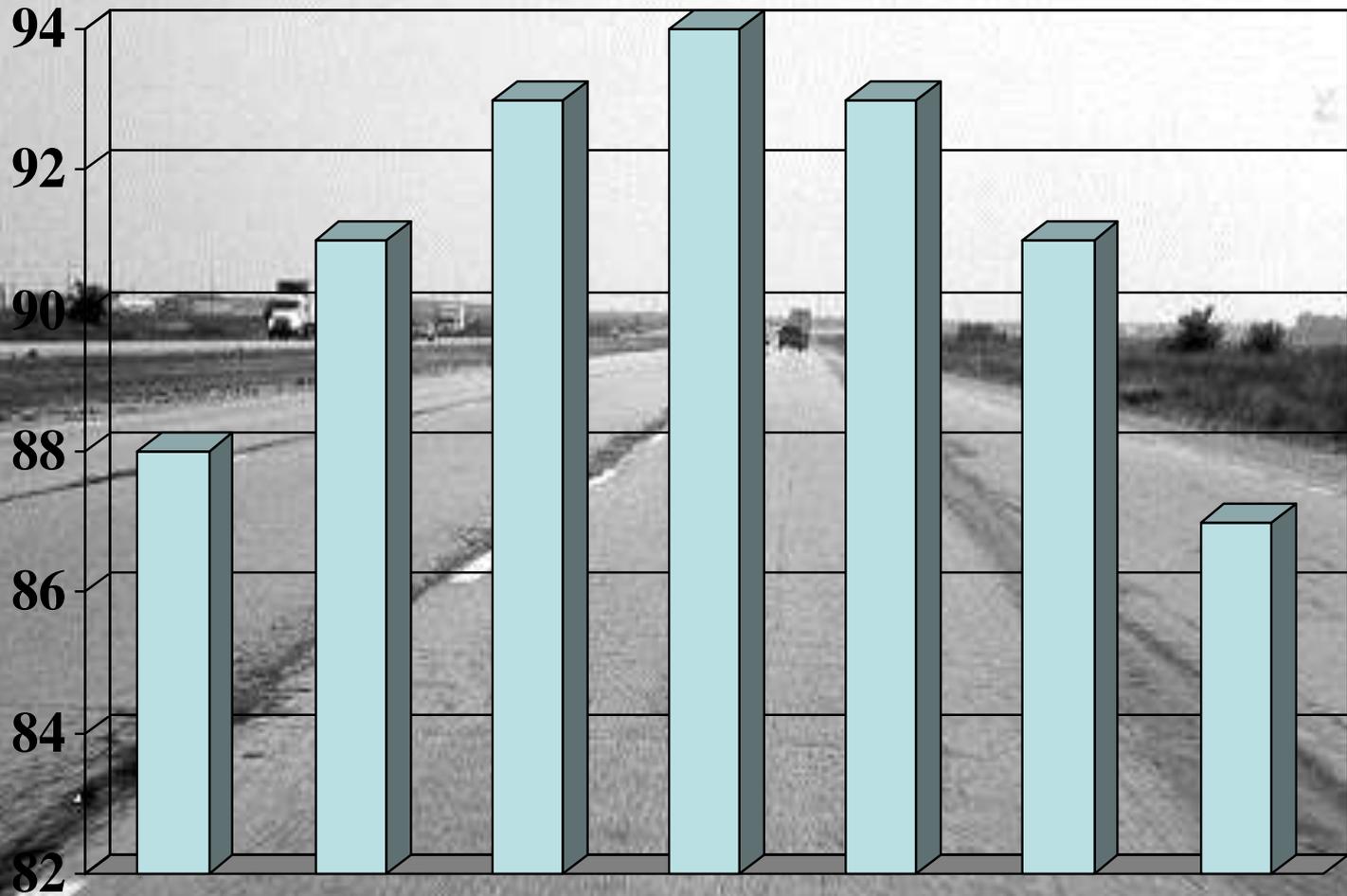








Density Across the Mat



Permeability

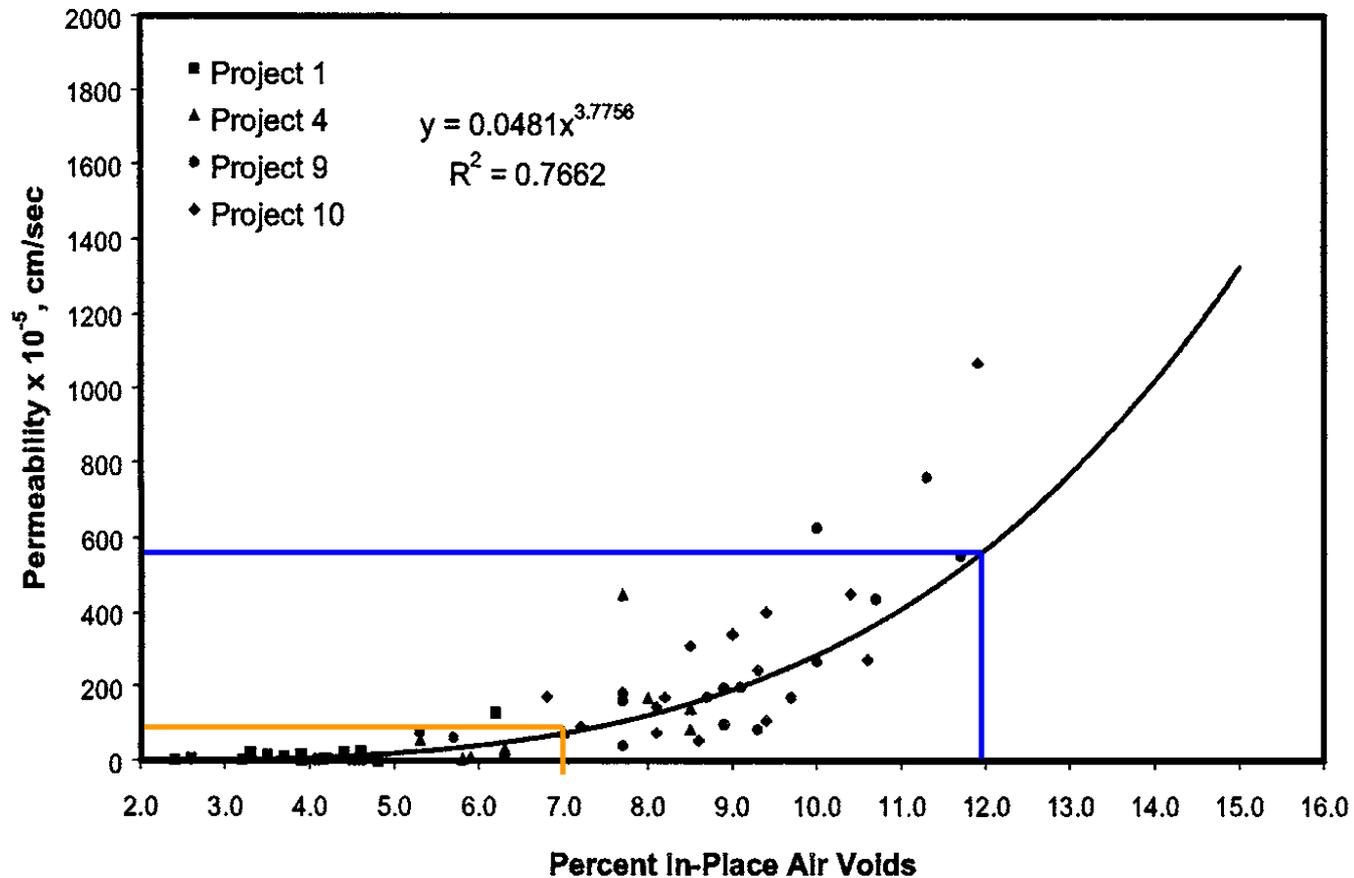


FIGURE 6 Field permeability–density relationship for 12.5-mm NMA mixtures.



Various colorful billboards and signs, including one for "Autos" and another for "Lincoln New Salem State Historic Site".

Autos

Lincoln New Salem
State Historic Site
exit 109



LEFT
TURN
LANE

CITGO
REGULAR 1.89
MID GRADE 1.99
PREMIUM 2.09
ATM

**Cub
Foods**

**BURGER
KING**





AutoZone
Automotive Parts & Accessories



Subway





Wirtgen

IW 2000

M'CRITE MILLING
NEW ALBANY, IN

SUPER

















ENTERING
AND COUNTY
AND WATER
TOWN DISTRICT



Conclusion

Mill and Fill to Confine Edge

- Opportunity to significantly improve joint
- Middle of mat density throughout
- Eliminates weak link
- Significantly extend life

Mill and Fill to Confine Edge

- Objective is confine edge whenever possible
- Not possible or appropriate in all cases
- Logistics, costs, project design
- Specification, procedures, practice

Mill and Fill to Confine Edge

- Replacement for BDE PM 15-02
- Designer should consider sequence
- How can we further integrate into practice?



Summary Quiz

1. Life on the edge to an engineer is:
 - Going without a pocket protector
 - Paying attention obscure details
2. The only good joint on a hot mix job is:
 - A beer joint
 - A confined joint
3. Confined joints are a technique to:
 - Make designers & contractors life complicated
 - Allow a high level of density at the joint
4. This presentation is timely because:
 - Mill and fill is more common
 - It's over

Mill and Fill to Confine Edge How Many Years?

PRESS
NO. 201,167
SOUTH
INNER.



