



Transportation System Preservation
Technical Services Program

Pavement Preservation

Holding Strategies for Low Volume State Routes

Iowa DOT Research Project
District 2



Transportation System Preservation
Technical Services Program

Pavement Preservation

Purpose of Project:

- Develop thin overlay holding strategies for low volume primary highways.
 - Research Proposal:
 - Holding Strategies for Low Volume State Routes RB35-013
 - Iowa State University

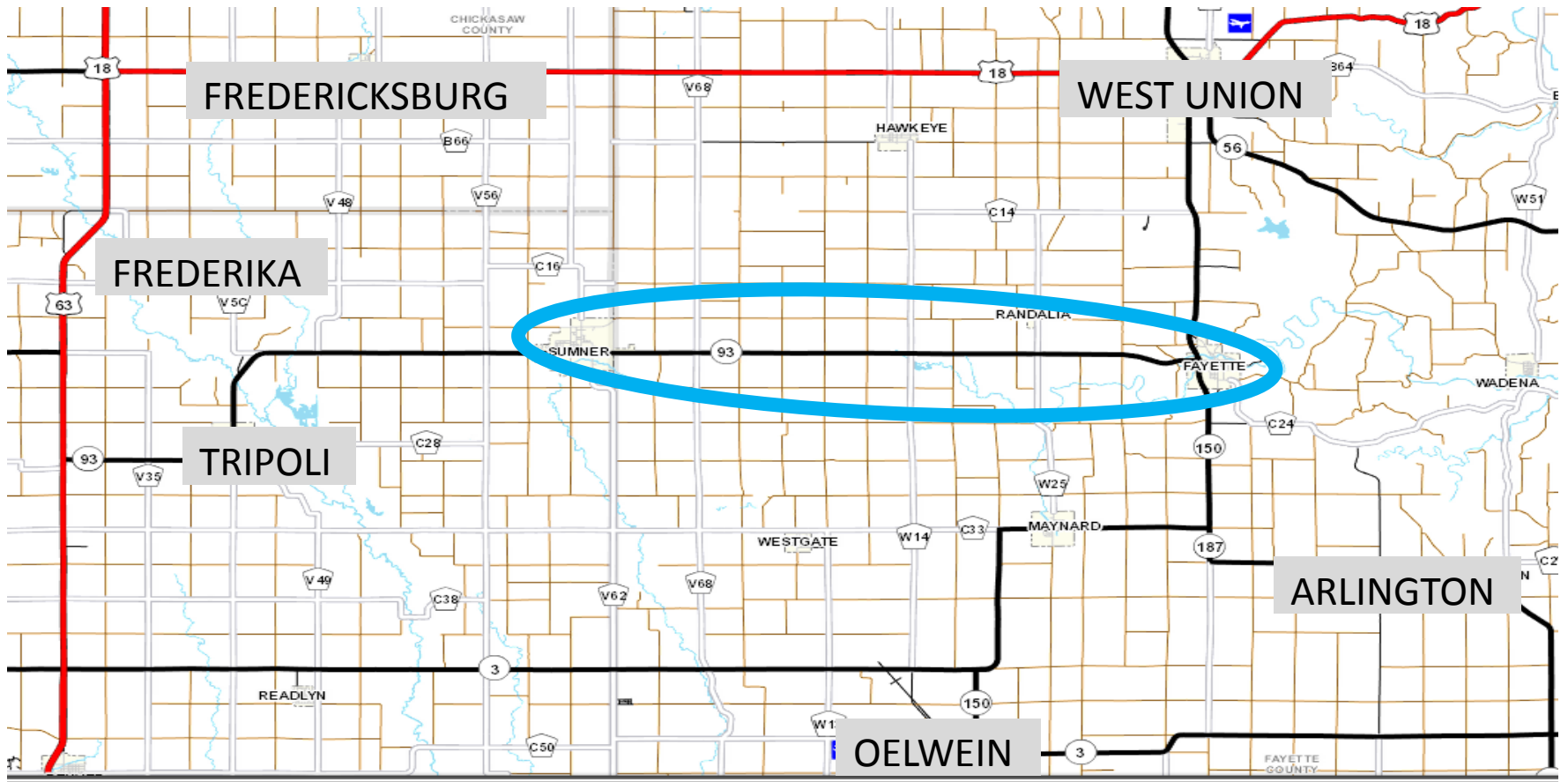


MP-93-2(701)16-76-33

Transportation System Preservation
Technical Services Program

AASHTO
THE VOICE OF TRANSPORTATION

Pavement Preservation



IA 9 in Fayette County from Sumner to Fayette



Transportation System Preservation
Technical Services Program

Pavement Preservation

IA 93 Paving History

- 1951: 6" rolled stone base with 0.75" heavy surface treatment
- 1971: 4.5" HMA overlay
- 1990: Seal coat
- 2006: Seal coat



Transportation System Preservation
Technical Services Program

Pavement Preservation

IA 93 - Existing Pavement Conditions

- Pavement Type - HMA (Resurfaced 1971)
- Length - 13.86 miles
- AADT - 1040 (3% trucks)
- Average Structural Rating - 3.63
- Average K Value - 46
- PCI - 32
- IRI - 3.89



Transportation System Preservation
Technical Services Program

Pavement Preservation

Existing Pavement Conditions





Transportation System Preservation
Technical Services Program

Pavement Preservation

Existing Pavement Conditions





Transportation System Preservation
Technical Services Program

Pavement Preservation

Existing Pavement Conditions





Transportation System Preservation
Technical Services Program

Pavement Preservation

Existing Pavement Conditions





TSP·2
AASHTO
THE VOICE OF TRANSPORTATION

Transportation System Preservation
Technical Services Program

Pavement Preservation

Pavement Core Samples





Transportation System Preservation
Technical Services Program

Pavement Preservation

Project Information

Let Price: \$1,867,302

Treatments

- Milling with 1.5" HMA Resurfacing
- Milling with 1.5" HMA Resurfacing & Seal Coat
- Milling with 1" Interlayer & $\frac{3}{4}$ " HMA Resurfacing
- Full Depth Reclamation with 1.5" HMA Resurfacing
- Full Depth Reclamation with Double Seal Coat



Transportation System Preservation
Technical Services Program

Pavement Preservation

Project Information

Treatments

- Cold-in-Place Recycling with Double Seal Coat
- Cold-in-Place Recycling with 1.5" HMA Resurfacing
- 2" HMA Resurfacing
- 1" Leveling & Strengthening Course with Seal Coat
- Scarification with Seal Coat

RESEARCH TEST SECTIONS

IOWA HIGHWAY 93 - FAYETTE

(PROJECT MP-93-2(701)16-76-33)

