PAVEMENT PRESERVATION

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Outline

I. Introduction
II. Pavement Management System
III. Types of Pavement Preservation in Georgia
IV. Conclusion
Current Roadways Maintained

- 18,100 centerline miles on the State Route System
- 45,942 Lane Miles
- 1,249 Centerline Miles on Interstate
- 5,995 Lane Miles on Interstate
Total of 14,815 Structures in GA
Currently we maintain 4441 bridges on the state route system.
4504 Locally owned bridges
Inspect Structures every 2 years
Challenges for Maintenance:

- Cost
- Increased Traffic / More Accidents
- More Miles
- System Age
Pavement Quality in Georgia

- Pavement Preservation (Maintenance)
  - Two categories: Preventive & Corrective
    - Preventive – applications prevent or reduce the rate of distress development in the pavement structure. Preventive applications are **not** intended to increase the structural capacity of pavement.
    - Corrective – applications are designed to restore distressed areas to acceptable level. Corrective maintenance applications increase the structural capacity of the pavement.
Pavement Quality in Georgia

- GDOT Pavement Preservation Program
  - Annual Pavement condition evaluation performed on all state highways both asphalt and concrete
  - Goal of clipping half of all state highway shoulders annually
  - Annual comprehensive inspections performed denoting deficiencies of the highway, inclusive of entire rights of way features (vegetation, signs, guardrail, pavement markings, etc.)
GDOT Pavement Preservation Program cont.

- Biennial inspection of minor drainage structures (span openings less than 20 feet)
- Crack filling
- Pot hole and deep base repair
- Resurfacing program that has a goal to resurface 10% of all state highways annually based on need identified annually from ratings utilizing Georgia Pavement Management System (GPAMS). The resurfacing treatment is typically hot mix asphalt less than 2 inches in thickness.
Pavement Quality in Georgia

- GDOT Pavement Preservation Program cont.
  - Chip Seal routes that meet Department criteria (AADT less than 1500, minimal pavement distresses, etc.)
  - Strip Sealing
  - Spot Overlays
  - Maintenance pavement preservation is a combination of – preventative maintenance activities, pavement reconstruction and pavement rehabilitation
Pavement Quality in Georgia

- Pavement Management (Maintenance)
  - GPAMS
Pavement Quality in Georgia

- Pavement Management (Maintenance)
  - GPAMS
    - Field Data Acquisition
Pavement Quality in Georgia

- Pavement Management (Maintenance)
  - GPAMS
    - Deficiencies Considered
      - Load Cracking
      - Block Cracking
      - Rutting
      - Raveling
Pavement Quality in Georgia

- Pavement Management (Maintenance)
  - GPAMS
    - Deficiencies Considered continued
      - Reflective Cracking
      - Loss of Section
      - Bleeding
Pavement Quality in Georgia

- Pavement Management (Maintenance)
  - GPAMS
    - Deficiencies Considered continued
      - Corrugation
      - Edge Distress
      - Patched Areas
CONTRACT PAVEMENT PRESERVATION
Micro Milled Surface
SAND SEAL

- Surface Treatment
- CRS-2H, #7, #89’s and W-10’s to lock the stone
SR137 Marion County

Before

After
Pavement Preservation by Maintenance Forces
IN THE LAST FIVE YEARS GDOT HAS APPLIED 504,872 GALLONS OF RUBBERIZED SEALANT STATEWIDE WITH MAINTENANCE FORCES

TYPE M RUBBERIZED CRACK SEALANT
Sealing over 6000 Lane Miles

RUBBERIZED CRACK SEALANT
GDOT PAVEMENT PRESERVATION EXPENDITURES

Money Spent Last Five Years

- Let to Contract: $975,094,857
- Maintenance Forces: $56,500,000
QUESTIONS ?