



OCTOBER 21, 2025

ANDREW FIRMENT

CHIEF OF OPERATIONS AND PERFORMANCE



Pennsylvania
Department of Transportation

*Thank
you!*

DEPARTMENT / PAAMA PARTNERSHIP

- 2025 Accomplishments
 - Fog Seals
 - Fast Break Fog Seal Materials
 - Department Fog Seal Guidance Document
 - Maintenance Executive Development Program Presentation
 - Pavement Management Engineer Meeting
- 1st Regional PAAMA Training Completed
 - D4 SR 11 Cape Seal Pilot Project



PAAMA REGIONAL TRAINING

- PAAMA Regional Training
 - 1st Training Provided
 - PAAMA & AEMA
 - May 20th & 21st (PENNDOT)
 - District 4,5,6,8
 - 101 Attendees
 - May 22nd (Local Agencies)



CAPE SEAL PROJECT

District 4

Lackawanna County

SR 11

- 1st DOT Cape Seal Completed
- 4 Lane Limited Access Highway
- 10,200 ADT
- Last Resurfaced in 2015
- Pavement Distresses
 - Cracking
 - Oxidation
 - Raveling



CAPE SEAL PROJECT

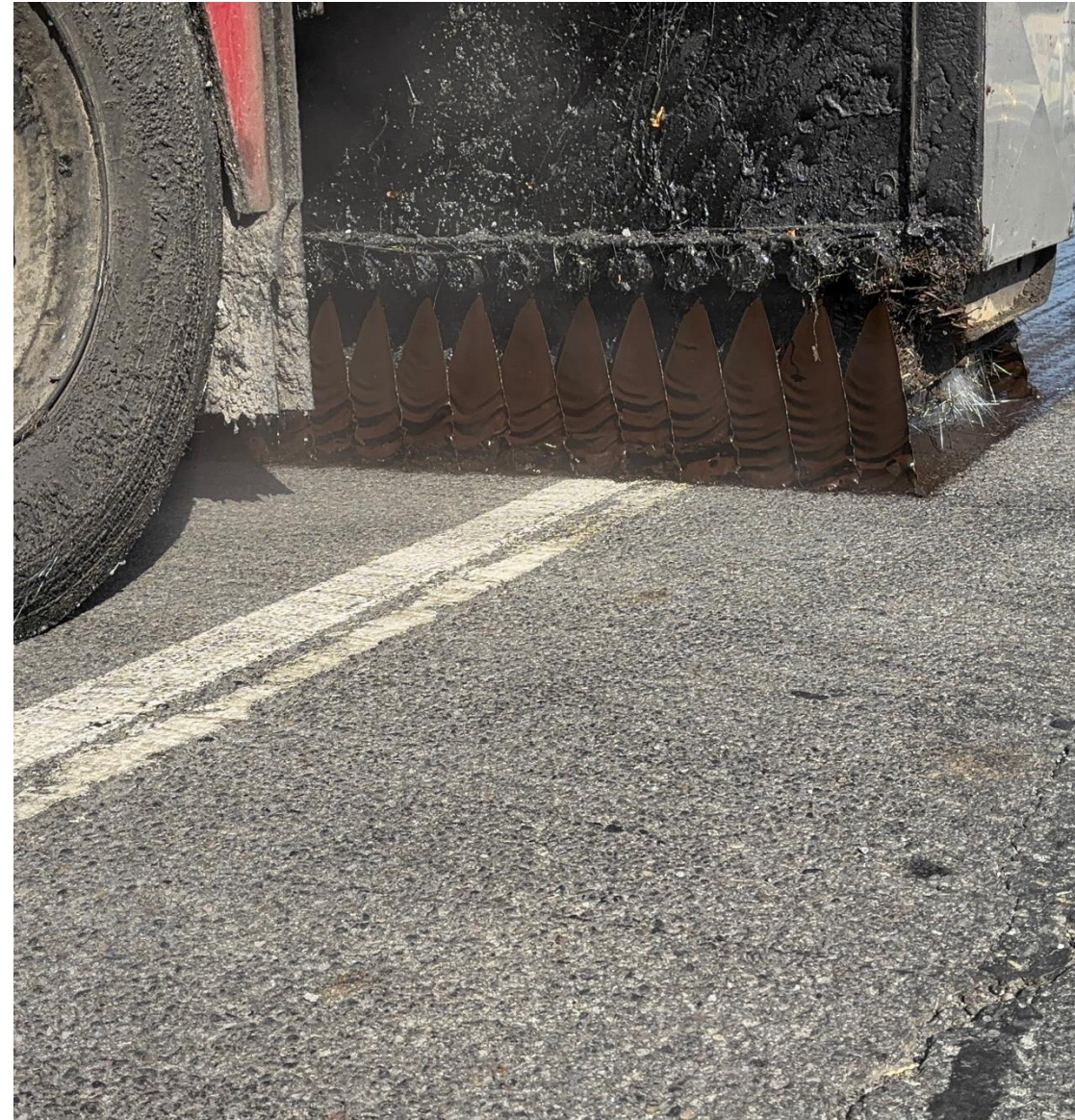
District 4

Lackawanna County

SR 11

- **Scope Of Work**

- Project to be completed by a combination of Department Forces and Industry Partners
- Seal Coat
 - 1st lane each direction – Standard seal coat
 - 2nd lane each direction – Fiberized Seal Coat
 - Utilizing “Fibermat” to test the performance of the seal coat vs standard seal coat



CAPE SEAL PROJECT

District 4

Lackawanna County

SR 11

- **Scope Of Work**
 - Micro Surfacing
 - Double Application
 - All Lanes and Shoulders



CAPE SEAL PROJECT

Conventional Seal Coat

- Performed on North Bound Passing Lane and South Bound Travel Lane
- Emulsion
 - CRS-2PM
 - App Rate .35 Gal / SY
- Aggregate
 - AASHTO #8 Washed Stone
 - App Rate 16 Lbs / SY



CAPE SEAL PROJECT

Fiberized Seal Coat

- Performed on North Bound Travel Lane and South Bound Passing Lane
- Midland Asphalt & Department Forces
- Emulsion
 - CRS-2PM
 - App Rate .40 Gal / SY
- Fiber
 - FiberMat
 - App Rate .18 lbs / SY
- Aggregate
 - AASHTO #8 Washed Stone
 - App Rate 16 Lbs / SY



CAPE SEAL PROJECT

Micro Surfacing

- Performed all Lanes and Shoulders
- Double Application
 - Type B = 25 Lbs / SY
 - Type A = 22 Lbs / SY



CAPE SEAL PROJECT



Micro Surfacing

SOUTH
Scranton
Expwy
EAST
BUS 8
Oak St
Market St

Seal Coat

FiberMat

Seal Coat

FiberMat

CAPE SEAL PROJECT

Final Numbers

County	Lackawanna			
State Route	11			
Total Length (miles)	1.87			
Total Square Yards	33,155			
ADT	10,192	Northbound	10,145	Southbound
Percent of Trucks	2%		3%	
Last Resurface Year	2015		2015	
IRI Pre Prep Work	78.75		88.66	
IRI Post Prep Work	92.00		97.38	
IRI Post Cape Seal	97.63		104.88	
Estimated life	10-12 years			
Total Cost	\$500,000			
Estimated Cost Savings	\$663,000			



Future Partnership Advancements

- Additional PAAMA Regional Training
 - Western – January 7-9
 - Central – February 10-12
- Finalize Cape Seal Treatment
 - Create a Specification
 - Update Publications
 - Communications
- Seal Coat Oil Specification Update
- Scrub Seal Project
 - Work with APS
 - District 5 Region
- Future Presentations / Involvement
 - Winter Schools
 - Pavement Managers Meetings
 - Municipal Services Representative Statewide Meeting
 - Mid-Atlantic Quality Assurance Workshops
 - Northeast Pavement Preservation Partnership



MOVING FORWARD INTO 2026

Thank you and I look forward to our continued partnership to advance pavement preservation



**Pennsylvania
Department of Transportation**

