

PAPA Regional Technical Meeting

March 19, 2025
8:00 AM to 3:00 PM
District 2-0

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Agenda

1. 2024 Asphalt Mix Testing Results
2. 2024 Longitudinal Joint Density Performance
3. 2025 Planned Construction Projects
4. 2025 – 2026 District Rehabilitation/Reconstruction Projects
5. 2025 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District EPD Status
8. District 6.3 mm & SMA Projects
9. District RAP Mix Percentages
10. District BMD HWTT/IDEAL-CT Implementation
11. District Innovations & Best Practices
12. 2024 District Issues – Problems
13. 2024 District Changes - Direction

2024 Asphalt Mix Testing

Testing:

- 183 Lots- Mixture Acceptance by box sample
- 112 Lots – Density Acceptance by pavement core

Failure:

- 1- AC Content failures
- 0- Gradation failures
 - #xxx 200 Sieve -
 - #xxx Primary Control Sieve -
- 0 - Density failures

Retests Requested:

- # Requested = 4
- Retest Results -
 - # passed = 3
 - # failed = 1

2024 Asphalt Mix Testing

Percent Pay:

- AC Content
 - >100%: 93
 - 100%: 1
 - <100%: 11
- Gradation: No. 200 Sieve
 - >100%: 98
 - 100%: 1
 - <100%: 6

Percent Pay:


- Gradation: PCS
 - >100%: 92
 - 100%: 0
 - <100%: 13
- Density
 - >100%: 58
 - 100%: 0
 - <100%: 7

2024 Longitudinal Joint Density Performance

	Longitudinal Joint Density Summary						
Year	2024	2023	2022	2021	2020	2019	2018
Lots Tested	22	10	20	18	33	26	95
% Density Range	86.3-98	89.7-96.6	88.8-98.1	89.0-97.5	88.1-97.9	87-98	82.9-97.3
% Average Density	93.4	93.3	93.5	92.4	94.1	92.1	92.5
Incentive Lots	16	8	14	10	29	17	82
100% Payment Lots	3	2	6	8	3	9	6
Disincentive Lots	3	0	0	0	1	0	7
Total \$ for Incentive Lots	\$91,950	\$51,000	\$85,375	\$35,325	\$212,175	0	\$394,100
Total \$ for Disincentive Lots	-\$23,500	0	0	0	-\$1,750	0	-\$16,840
Delta (Incentive – Disincentive)	\$68,450	\$51,000	\$85,375	\$35,325	\$210,425	\$81,800	\$377,260

REF: Section 405 Evaluation of Bituminous Pavement Longitudinal Joint Density and Payment of Incentive/Disincentive

▶ 2024 Longitudinal Joint Density Performance

- Longitudinal Joint Type
 - Which joint type is being utilized most?
 - Vertical (Butt)
 - Tapered (Wedge) 
 - Are you having any longitudinal joint issues?
 - If so, please explain. [Not with new joints.](#)
 - Did you or are you planning to use J-Band (**Void Reduction Asphalt Membrane VRAM**) instead of PUB 408 Section 405? If you specified/utilized, what are your observations?
 - [SR 0219-537 McKean, SR 0080-B42 Clfd \(2024/2025\)](#)
 - Do contractors or staff in your District need any training on how to construct a quality longitudinal pavement joint?
 - [Verify that they are constructing proper notch](#)

▶ 2025 Planned Construction Projects

ECMS #	Let Date	SR	County	Tons
74912	03/2/2023	0080-B38	Centre	1600
88579	04/18/2024	0080-B42	Clearfield	130000
3142	05/23/2024	0080-B18	Centre	28000
112588	08/22/2024	0026-147	Centre	7500
121382	09/23/2024	2-24-ST92	Juniata	8200
113127	10/10/2024	0255-A12	Clearfield	1100
117066	10/24/2024	0219-274	Clearfield	16000
119410	10/24/2024	0022-P63	Juniata	2000
114302	10/24/2024	2006-P44	Juniata	1500
118402	01/30/2025	0045-TSA	Centre	1700
116319	02/13/2025	2-25-ST1	Centre	49000

▶ 2025 Planned Construction Projects

ECMS #	Let Date	SR	County	Tons
108876	03/27/2025	2-25-ST9	Juniata	12000
108859	03/27/2025	2-25-ST6	Potter	12000
69085	04/10/2025	0120-A08	Elk	2000
122319	06/05/2025	2-25-ST5	McKean	8700
122303	06/05/2025	2-25-ST72	Mifflin	1300
119241	06/26/2025	0219-826	Clearfield	15000
119245	06/26/2025	0153-277	Clearfield	15000

District Rehabilitation Projects

- Have you bid and/or completed any crack & seat, break & seat, or rubblization projects with asphalt structural overlay in the past few years?
 - No
- Do you have any projects programmed for 2025 or 2026 or in future construction seasons? If so, where and what is the ECMS#? No

District Reconstruction Projects

- Do you have any highway reconstruction projects programmed to be let for 2025, 2026 or 2027 construction seasons? If so, when (anticipated let date), where (County, SR - Segment – Offsets) and what is the ECMS# (if known)?
 - 2025 –
 - SR 0120-407 Cameron Emporium ECMS 116620
 - SR 0446-543 McKean Eldred Borough ECMS 117079
 - SR 0346-538 McKean City of Bradford ECMS 109873
 - 2026 –
 - SR 0219-275 Clearfield County Dubois ECMS 117237
 - SR 0120-821 Elk County ECMS 117069
 - 2027 –
 - SR 1002-726 Mifflin County ECMS 119778

▶ 2025 Maintenance Asphalt Tons (Estimated)

County	9.5 mm	9.5 mm LVR	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	25.0 mm LVR
2-1 Centre	295			1564			
2-2 Clearfield	1843			820			
2-3 Clinton	269			192			
2-4 Cameron	44			10			
2-5 McKean	440			636			
2-6 Potter	371			601			
2-7 Mifflin	120			65			
2-8 Elk	845			3210			
2-9 Juniata	770			248			
TOTAL TONS	4997			7346			

LVR = Low Volume Roads

District EPD Status

- Please discuss your experience with the implementation of the Asphalt EPD Policy & SSP.
 - No issues so far. District will review mix designs in eCAMMS to verify that the EPD data is provided for each mix in accordance with the Special Provision and policy
 - Attach EPD to Asphalt SOS submission
 - Not many mix designs submitted to date
- Are contractors in your District having any issues complying?
 - Not aware of any issues

District 6.3 mm & SMA Projects

- List 2025 6.3 mm Thin Lift projects
 1. None
- List 2025 SMA Projects & Note those with 10% RAP
 1. None
- List any 2025 or 2026 HiMOD SMA Pilot Projects?
 1. SR 0080-B42 Clearfield
- What did you learn from any 2024 HiMOD Projects?
 - Similar to regular 64E-22 SMA
 - Time will tell if the HiMOD outperforms the 64E-22 and justifies the additional cost

District 2024 RAP Mix Percentages

- Please provide average RAP % for the following mixes:
 - Wearing - 16.6% and total tons 47,842 RAP
 - Binder - 27.3% and total tons 60,054 RAP
 - Base – 26.0 % and total tons 25,038 RAP
 - Average RAP % of all mixes – 23.4% and total tons 132,934
- How do we overcome the impediments to increasing RAP% in the mixes?
 - Volume/supply of available RAP
 - Quality of mix- performance
 - Plant capacity (batch plant/drum plant) (Variable Speed Drum)
 - RAP gradation- Fractionate
 - Use of rejuvenators

DISTRICT STATUS BMD HWTT/IDEAL-CT TESTING

- Please discuss District opinion of BMD status & next steps.
- Still gathering data. Data Collection extended through 2026 with further evaluation after 2026. (SOL 481-24-01)
- Please discuss any issues, problems, opportunities, successes, etc. you would care to share?
- VRAM vs Longitudinal Joint incentive/disincentive

District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
 - VRAM
 - Still need to follow best practices of building a good quality joint
 - HiMOD Asphalt
 - Fiberless SMA
 - Similar to SMA with fiber but, the mix is produced and placed at cooler temperatures. (Max Temp 300 degrees)
 - Warm Mix Technology additive used as the stabilizer
 - Increase of 60% to 70%

2024 District Issues - Problems

- Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?
 - None

2025 District Changes - Direction

- Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.
 - ✓ EPD Data to be submitted in eCAMMS with all JMFs
- Any staff changes since last year?
 - ✓ Nate Ferrell TCI - left Department

Audience Questions/Comments???



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