

PAPA Regional Technical Meeting

March 20, 2024
8:00 AM to 3:00 PM
District 9

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Agenda

1. 2023 Asphalt Mix Testing Results
2. 2023 Longitudinal Joint Density Performance
3. 2024 Planned Construction Projects
4. 2024 District Rehabilitation Projects
5. 2024 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District eTicketing 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. 2023 District Issues – Problems
13. 2024 District Changes - Direction

2023 Asphalt Mix Testing

Testing:

- 100 Lots- Mixture Acceptance by box sample
- 53 Lots – Density Acceptance by pavement cores

Retests Requested:

- 1 Requested –
- Retest Results -
 - # passed 0
 - # failed 1

2023 Asphalt Mix Testing

Testing:

- 100 Lots- Mixture Acceptance by box sample
- 53 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 – 1
- Retest Results -
 - # passed 0
 - # failed 1

2023 Asphalt Mix Testing

Pay Factors:

- AC Content
 - >100.00%: 75
 - 100.00%: 11
 - <100.00%: 15
- Gradation: No. 200 Sieve
 - >100.00%: 74
 - 100.00%: 12
 - <100.00%: 15

Pay Factors:

- Gradation: PCS
 - >100.00%: 79
 - 100.00%: 1
 - <100.00%: 9
- Density
 - >100.00%: 30
 - 100.00%: 11
 - <100.00%: 12

Performance

	Longitudinal Joint Density Summary					
Year	2023	2022	2021	2020	2019	2018
Lots Tested	11	11	17	10	4	7
% Density Range	87.4-97.2	88.1-96.3	87.4-96.8	85.0-95.2	88.5-94.8	87.2-95.6
% Average Density	93.7	91.3	92.7	91.6	91.9	92.0
Total \$ for Incentive Lots	70,725	14,250	67,375	32,000	8000	26,000
Total \$ for Disincentive Lots	1,050	6,500	11,000	4,800	0	1,200
Delta (Incentive - Disincentive)	69,675	7,750	56,375	27,200	8,000	24,800

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

Performance

- Longitudinal Joint Type
 - Which joint type is being utilized most?
 - Vertical (Butt)
 - Tapered (Wedge)
 - Are you having any longitudinal joint issues?
 - Performing very well overall.
 - Did you or are you planning to use J-Band (Void Reduction Asphalt Membrane VRAM)? If you piloted, what are your observations?
 - J-Band Pilot on I-70 Sec. 021 Fulton County (SMA)
 - Will continue to use on centerline joint on high volume roads

2023-24 Material Usage (Actuals & Projected)

MATERIAL	<i>2023 Projected</i>	2023 Actual	<i>2024 Projected</i>
ASPHALT (TONS)	<i>400,000</i>	383,000	<i>385,000</i>
AGGREGATE (TONS)	<i>750,000</i>	698,000	<i>435,000</i>
STRUCTURAL CONCRETE (CY)	<i>11,000</i>	5,400	<i>6,500</i>
CONCRETE PAVING (SY)	<i>12,000</i>	13,400	<i>5,400</i>

District Rehabilitation Projects

- Have you bid and/or completed any crack & seat break & seat projects with asphalt structural overlay in the past few years?
 - If so, please briefly discuss project and any take-aways?
- Do you have any projects programmed for 2024 or 2025?
 - SR 56 (035) Cambria Co. – Awarded 1/18/24
 - Break and Seat ~ 133,000 SY

2024 Maintenance Asphalt Tons (Estimated)

- No Dept. Force Long Line Paving in 2023 and none planned for 2024

District eTicketing Status

- Please discuss your experience with Asphalt eTicketing Projects.
 - Pluses
 - Worked well for 2023 pilot projects.
 - Haulhub seems to be the producer's choice
 - Minuses
 - Poor cellular Service in some locations in the District.
 - Recommendations
 - Last year for pilots, use before it is a requirement.
- Are contractors in your District ready to implement this October?
 - Yes



District 6.3 mm & SMA Projects

- List of 2024 6.3 mm Thin Lift projects
 1. I-99 (021) Blair Co. – Awarded
 2. US22 (058) Blair Co – ECMS 117707 - Sept 2024 let

- List of 2024 SMA Projects
 1. SR 219 (047) Somerset Co. – ECMS 23478 - June 2024 let
 2. I-79 (033) Fulton Co. – Awarded
 3. I-79 (034) Fulton Co. – Awarded

- Any 2024 or 2025 HiMA SMA Pilot Projects?
 1. SR 219 (047) Somerset Co. – ECMS 23478

District RAP Mix Percentages

- Please provide average RAP % for the following mixes:
 - Wearing - 15% and total tons 267,000
 - Binder - 20% and total tons 262,00
 - Base – 18 % and total tons 52,000
 - Average RAP % of all mixes – 17% and total tons 581,000
- What are the impediments to increasing RAP% in the mixes?
 - Managing the RAP pile
 - Fractionate
 - Storage – under roof?

District BMD HWTT/IDEAL-CT Implementation

- Please discuss District opinion of owner – contractor readiness to implement BMD.
 - On track with current guidelines.
- Please discuss any issues, problems, opportunities, successes, etc. you would care to share?
 - No major issues or concerns.

District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
 - VRAM
 - Center lane joint on major high-volume roadways.
 - Continue use of local acceptance testing.

2023 District Issues - Problems

- Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?
 - No major issues.

2024 District Changes - Direction

- Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.
 - ✓ Mixture & Density Acceptance Special Provision

Provision Body

Mixture and density acceptance of Superpave Mixture Design items in accordance with the following:

Item Number	Description	Mixture Acceptance		Density Acceptance			Stations or Segment/Offset
		Certification Section 413.2(i)2	Loose Box Section 413.3(h)2	Non-Movement Section 413.3(j)2	Optimum Roller Pattern Section 413.3(j)3	Pavement Cores Section 413.3(j)4	
0313-0437	25MM BASE	X		X			Entire Project
0413-0256	9.5 MM WEARING		X			X	SR 271
0413-2074	9.5 MM LEVELING	X			X		SR 271
0413-0256	9.5 MM, Wearing	X		X			SR 36

- Any staff changes since last year?
 - ✓ Vince Greenland, PE – New District Executive

Audience Questions/Comments???



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