



PAPA Regional Technical Meeting

Allentown

March 21, 2019
District 4

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2018 Bituminous Testing

Testing:

- 125 Lots- Mixture Acceptance by box sample
- 125 Lots – Density Acceptance by pavement core

Failure:

- 18 AC failures
- 12 Gradation failure
- 5 Density failures

2018 Longitudinal Joint Density Performance

	Longitudinal Joint Density Summary		
Year	2016	2017	2018
Lots Tested	31	33	16
% Density Range	83.4-95.8	86.1-98.0	85.2-96.7
% Average Density	90.9	91.3	91.6
Incentive Lots			
Zero Lots			
Disincentive Lots			
Total \$ for Incentive Lots	\$72,260	\$53,600	\$45,400
Total \$ for Disincentive Lots	-\$7,314	-\$27,380	-\$24,280
Delta (Incentive - Disincentive)	\$68,306	\$26,220	\$21,120

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

2018 Longitudinal Joint Density Performance

- Longitudinal Joint Type
 - **Currently using a Tapered Joint that we find produces the best density results.**

2018 Percent Within Tolerance (PWT)

	PWT SUMMARY		
Year	2016	2017	2018
Number of PWT Projects	4	11	11
Number HOLA	1	0	0
Number LTS	3	11	11
Average Pay Factors (%)			
Asphalt	98.97	100.53	99.12
PCS	103.94	100.85	98.64
#200 Screen	102.79	98.97	97.00
Density	102.71	102.53	102.76
Average Density	94.3	94.2	94.5
Average Overall Lot Pay Factor (%)	1.02	1.01	1.00
Bonus (\$)	\$128,419	\$267,952	\$93,644
Penalty (\$)	\$0	\$106,113	\$97,746

2019 Planned Construction Projects

- List Projects With > 1000 tons of WMA Paving

➤ ECMS 108786 Luzerne County LET DATE 03/14/19

SR
924
1005
1007
1021
1025
2015
2025
2027
2029
3017
3023

Total Miles	Total Tons
27.4	63154

➤ ECMS 110901 Lackawanna County LET DATE 03/14/19

SR
307
435
1016
2020
3011
4024

Total Miles	Total Tons
18.28	49515

➤ ECMS 108376 Susq/Wyo County LET DATE 03/28/19

SR
11
171
87

Total Miles	Total Tons
23.53	41317

➤ ECMS 102556 Luzerne County LET DATE 05/23/19

SR	Total Miles	Total Tons
11	73.2	160091

2019 Maintenance WMA Tons (Estimated)

County	9.5 mm	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	37.5 mm
4-2			6500			
4-3			11000			
4-4			1000			
4-5			48740			
4-6			6710			
4-7			13932			
TOTAL TONS			87882			

LVR = Low Volume Roads

District Innovations & Best Practices

- Have you tried a 6.33 mm Thin Lift project yet?

No

- Do you utilize SMA on all Interstate Highways?

Yes

– Why? **Longevity and Performance**

- Are you still having tack coat issues?

Currently using Trackless Tack with no issues

District Innovations & Best Practices

- Have your maintenance forces completed a 19.0 mm for Low Volume Roads mix project yet?
 - If so, please discuss your observations. **Completed projects in Susquehanna, Wyoming and Lackawanna Counties yielding good results.**
- Have you bid or completed a LLAP Project?

► ECMS 76860 LLAP I-84 E&W Pike County

9000-6130	LLAP, STONE MATRIX ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, RPS, PG 76-22, 12.5 MM MIX, 2" DEPTH, SRL-E	322,421.00
9000-6140	LLAP, SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, RPS, PG 76-22, >/= 30 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	331,466.00
9000-6150	LLAP, SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 37.5 MM MIX, 7 1/2" DEPTH	331,466.00
9000-6160	LLAP, SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, < 0.3 MILLION ESALS, 37.5 MM MIX, 4 1/2" DEPTH	331,466.00

2018 District Changes - Direction

New Acting District Engineer
Richard Roman, PE



District 4 Building Addition and Renovation Project

Scheduled for 2020 Completion



Questions/Comments???



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