

# LOW VOLUME ROAD PROJECT REVIEW

Highway Name and Location	SH 24A, Milepost 253.6 to 264.3
Treatment Used	1.5" Mill and Fill in targeted locations, full length chip seal



2013



2014



2015



2016



2017



2018

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Condition before treatment	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
254	259	1998	78	99	93	82	95	0	5	TRAN	MODERATE
259	263	1998	75	98	90	78	95	0	4	IRI	MODERATE
263	264	1997	74	98	99	80	96	0	13	TRAN	HIGH

Condition after treatment Yr 1	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
254	259	2014	100	100	100	100	100	0	13	FATG	HIGH
259	263	2014	100	100	100	100	100	0	13	FATG	HIGH
263	264	2014	100	100	100	100	100	0	13	FATG	HIGH

Condition after treatment Yr 2	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
254	259	2014	89	100	100	91	100	0	7	TRAN	MODERATE
259	263	2014	93	100	100	94	99	0	8	TRAN	MODERATE
263	264	2014	92	100	99	95	100	0	7	IRI	MODERATE

Condition after treatment Yr 3	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
254	259	2014	89	100	100	88	99	-1	8	TRAN	MODERATE
259	263	2014	92	100	100	88	99	-1	8	TRAN	MODERATE
263	264	2014	91	100	98	87	99	-1	8	TRAN	MODERATE

Condition after treatment Yr 4	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
253.6	258.6	2014	89	100	100	83	98	-1	5	TRAN	MODERATE
258.6	263.6	2014	92	100	100	83	98	-1	5	TRAN	MODERATE
263.6	264.4	2014	92	100	100	80	99	-1	5	TRAN	MODERATE

Condition after treatment Yr 5	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
253.6	258.6	2014	89	100	97	75	97	-1	4	TRAN	MODERATE
258.6	263.6	2014	92	99	95	77	98	-1	4	TRAN	MODERATE
263.6	264.4	2014	92	100	98	79	99	-1	5	TRAN	MODERATE

Change in DL condition documented:	Average DL increase of ~13 years.
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Treatment	Quantity	Unit	Treatment Area (SY)	Unit Cost	Cost	Calculated Cost (SY)
Rem of Asphalt Mat (Planing)	136,028	SY	136,028	\$2.10	\$285,658.80	\$2.10
HMA (Gr SX) (75)(PG 58-28) (1.5")	12,056	Ton	136,028	\$95.00	\$1,145,320.00	\$8.42
Cover Coat Material (Type II)	210,183	SY	210,183	\$1.40	\$294,256.20	\$1.40
Emulsified Asphalt (CRS-2P)	464	Ton	210,183	\$575.00	\$266,800.00	\$1.27
Emulsified Asphalt (Slow Setting)	7,410	Gal	136,028	\$3.50	\$25,935.00	\$0.19

Takeaways	<p>This is technically a medium volume road that Region 2 treated as a Low Volume Road. This project included a somewhat surgical approach in that Region 2 left a few maintenance overlays in place and skipped over them with the mill and fill, but chip sealed over them for the final. The maintenance overlays that were selected to remain in place were noticeably smoother than the roadway portion selected for mill and overlay. As a final product, the maintenance overlays that were left in place are now noticeably rougher in ride quality than the mill/fill portions of the project. Also, the chip seal performance is sub-par at best. As noted in the condition data, the treatment did little for preventing the transverse cracking from reflecting through.</p>
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