LOW VOLUME ROAD PROJECT REVIEW

Highway Name and Location SH 86A, Milepost 38.1 to 50.05

Treatment Used Overlay w/ Pre-Patching and Surgical Full Depth Repair



2013



2014



2015

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LOW VOLUME ROAD PROJECT REVIEW

2016



2017



2018

Condit	tion be	fore tre	eatme	ent		See Be	low:				
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_ldx	Cond
38.1	43.1	1989	71	99	69	63	95	0	2	TRAN	LOW
43.1	48.1	1989	70	100	84	73	99	0	4	TRAN	MODERATE
48.1	50.6	1989	65	100	81	65	98	0	2	TRAN	LOW

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LOW VOLUME ROAD PROJECT REVIEW

Condit	tion aft	er trea	tmen	t Yr 1		See Be	low:							
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_ldx	Cond			
38.1	43.1	2014	92	100	100	98	99	0	7	IRI	MODE	RATE		
43.1	48.1	2014	93	100	100	87	100	0	6	TRAN	MODE	RATE		
48.1	50.6	2014	91	100	100	90	100	0	7	TRAN	MODE	RATE		
Condit	tion aft	er trea	tmen	t Yr 2		See Be	low:							
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_ldx	Cond			
38.1	43.1	2014	92	100	100	96	99	-1	7	IRI	MODE	RATE		
43.1	48.1	2014	91	100	100	83	100	-1	6	TRAN	MODE	RATE		
48.1	50.6	2014	90	100	100	86	100	-1	6	TRAN	MODE	RATE		
	tion aft		itment Yr 2			See Below:								
BMP	Emp	Year	lri	Rut	Fatg	Tran	Long	Crbk		DL_ldx				
38.1	43.1	2014	92	100	100	94	99	-1	7	IRI	MODE			
43.1	48.1	2014	90	100	100	79	99	-1	5	TRAN	MODE	RATE		
48.1	50.6	2014	89	100	100	82	99	-1	5	TRAN	MODE	RATE		
Condition after treatment Yr 2				See Be	See Below:									
BMP	Emp	Year	lri	Rut	Fatg	Tran	Long	Crbk	DL	DL_ldx	Cond			
38.1	43.1	2014	91	100	100	91	99	-1	7	TRAN	MODE			
43.1	48.1	2014	88	100	99	73	99	-1	4	TRAN	MODE			
48.1	50.6	2014	88	100	100	80	100	-1	5	TRAN	MODE	RATE		
_	ge in DL		ion			Averag	je DL in	crease						
docum	nented								- .			1		
			Quar	ntity Unit		Treat Area		Unit Cost		Cost	Calculated Cost (SY)			
HMA (Gr SX) (75)(PG 64-22) (1.5")							59	Ton	246,77		\$84.00	\$1,7	710,156.00	\$6.93
Emulsified Asphalt (Slow Setting)						10,2	58 (Gal	246,77	5	\$3.00	\$30,	,774.00	\$0.12
Takaa				Thio		+ !+	م ما داد ما			l Theore	ا م ما د ما د			in / months
Takeaways This project is not holding up very well. The cracks below appeared within 6 months of the project completion, some immediately. Comparing the DL prior to overlay to after overlay in the three DL segments; it went from DL of 2, 4, and 2 to a meager 7, 6, and 6, which is not cost effective in the slightest and nowhere near the thin														
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											-			
	overlay benefits we are attributing to the DL model. Region 4 expects, ultimately, it will have the same failure mode as what was anticipated prior to this thin treatment											9		
	(T-Cracks/Reflective Cracking and some Fatigue). Model improvements based on field													
	performance are being pursued. Timely crack sealing to the new pavement surface will be important to maximize any benefits of the thin overlay placed.											ent surface		
				will b	e imp	ortant t	o maxir	mize a	ny ben	efits of	the thin	overla	ay placed.	

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