

# LOW VOLUME ROAD PROJECT REVIEW

Highway Name and Location	SH 103A, Milepost 13.3 to 18.0
Treatment Used	2" Mill and Fill



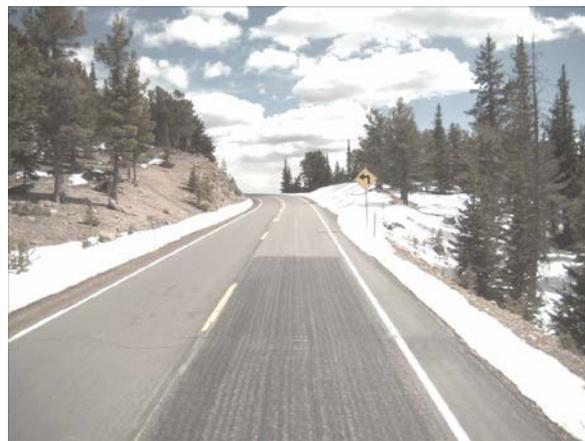
2012



2013



2014



2015



2016



2017

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2018

Condition before treatment	See Below:										
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
11.5	16.5	1983	86	99	98	78	97	0	0	FATG	POOR
16.5	21.5	1982	91	100	99	81	99	0	0	FATG	POOR
Condition after treatment Yr 1		See Below:									
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
13.3	18.3	2013	100	100	100	100	100	0	18	RUT	HIGH
Condition after treatment Yr 2		See Below:									
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
13.3	18.3	2013	84	100	100	96	100	0	7	IRI	MODERATE
Condition after treatment Yr 3		See Below:									
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
13.3	18.3	2013	90	98	100	94	100	0	8	IRI	MODERATE
Condition after treatment Yr 4		See Below:									
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
13.3	18.3	2013	90	100	100	90	100	-1	10	TRAN	MODERATE
Condition after treatment Yr 4		See Below:									
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
13.3	18.3	2013	90	100	100	84	100	-1	6	TRAN	MODERATE
Condition after treatment Yr 4		See Below:									
BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
13.3	18.3	2013	90	100	100	78	100	-1	5	TRAN	MODERATE
Change in DL condition documented:		Average DL increase of ~18 years.									

Treatment	Quantity	Unit	Treatment Area (SY)	Unit Cost	Cost	Calculated Cost (SY)
Rem of Asphalt Mat (Planing)	87,446	SY	87,446	\$2.50	\$218,615.00	\$2.50
Hydrated Lime	263	Ton	79,709	\$335.00	\$88,105.00	\$1.11
CIR (4" depth)	79,709	SY	79,709	\$5.75	\$458,326.75	\$5.75
HMA (Gr SX) (75)(PG 58-28) (2")	18,337	Ton	167,155	\$74.50	\$1,366,106.50	\$8.17
Emulsified Asphalt (CSS-1)	115,578	Gal	79,709	\$3.10	\$358,291.80	\$4.50
Emulsified Asphalt (Slow Setting)	8,288	Gal	167,155	\$2.00	\$16,576.00	\$0.10

Takeaways	Transverse cracking occurring in spots, very high altitude and harsh weather conditions. After 4 years of performance regularly-spaced transverse cracks have occurred throughout the project. These moderate
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	<p>severity transverse cracks are most likely caused by environmental freeze-thaw factors. This is the worst performing segment of 103A when compared to the segment before it and after. The high-elevation and extreme climate, compared to surrounding projects, may be contributing to the accelerated deterioration. This site is a prime candidate for a maintenance crack seal, which may add an additional 5 years of DL.</p>
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