

MONTANA DEPARTMENT OF TRANSPORTATION
RESEARCH PROGRAM
HELENA, MONTANA 59620-1001

Two Medicine Bridge - East

NH 1-3(34)210F[1814]

Annual Report

November, 2001

This Project involved the comparison of performance and cost effectiveness of two cold in-place recycled (CIPR) treatments of two different depths (60mm vs. 75mm). Each will receive a 60mm (0.20') grade D HMA overlay. This project is located on US 2 (NINHS P-1) from milepost 210.9-218.8 in Glacier County.

The Research Program has classified this project as formal through the year 2003. This was the third annual evaluation since construction in June of 1998.

Averaged rutting and crack data for the **60mm CIPR** as follows; eastbound outer wheelpath (OWP) rutting at 5.8mm with a standard deviation (STD) of 1.6. Eastbound inner wheelpath (IWP) rutting at 4.6mm with a STD of 1.5. Westbound OWP rutting at 5.6mm with a STD of 1.4. IWP rutting was at 2.6mm with a STD of 0.5. Transverse cracking averaged at 59.7 cracks per mile (CPM).

Averaged rutting and cracking for the **75mm CIPR** as follows; eastbound OWP rutting at 4.17 mm with a STD of 1.07, IWP rutting at 3.33 with an STD of 1.11. Westbound OWP rutting at 4.67 with a STD of 1.49, IWP is rutting at 2.5 with a STD of 0.96. No transverse cracking applicable to report at this evaluation.

Transverse cracking with the 60mm CIPR section of this project from year 2000 had almost doubled in 2001.

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EXPERIMENTAL PROJECT DATA SHEET

NAME: Two Medicine Bridge - East
NUMBER: NH 1-3(34)210
YEAR: 2000

Location	Treatment	No. of Cracks		Ruts (mm)			
		300'		EB		WB	
		Eastbound	West bound	OWP	IWP	IWP	OWP
MP 211	60MM CIPR	3	4	4.00	3.00	3.00	4.00
MP 211.5	60MM CIPR	4.4	3.4	4.00	3.00	2.00	6.00
MP 212	60MM CIPR	5.4	5.7	6.00	5.00	3.00	7.00
MP 212.5	60MM CIPR	1	1	7.00	5.00	3.00	7.00
MP 213	60MM CIPR	3	3	8.00	7.00	2.00	4.00
MP 214	75MM CIPR	0.3	0	5.00	2.00	4.00	5.00
MP 215	75MM CIPR	0	0	5.00	4.00	2.00	7.00
MP 216	75MM CIPR	0	0	5.00	4.00	3.00	4.00
MP 216.5	75MM CIPR	0	0	4.00	3.00	1.00	5.00
MP 217	75MM CIPR	0	0	2.00	2.00	2.00	2.00
MP 217.5	75MM CIPR	0	0	4.00	5.00	3.00	5.00

60 mm CIPR	Avg	5.80	4.60	2.60	5.60
	Std	1.60	1.50	0.49	1.36

75 mm CIPR	Avg	4.17	3.33	2.50	4.67
	Std	1.07	1.11	0.96	1.49

60 mm CIPR # of Cracks/Mile 59.7

75 mm CIPR 0.44