								Bridge I	nspe	ction							
Bridge File Number 78572 E-1 Bridge												PSR					
Year Built/Year 1979/1979								Lot No.				2					
Supstr								Inspector Name			Tom Carey						
Bridge or Town Name MEDICINE HAT								Inspector Class		BR CLS A							
Located Over			TH SA ERCR		ATCHEWAN RIVER, 2,				Assistant Name								
Located On		1:21 F	R1 4.0	089						Assistant Class							
Water Body Cl./Year								Inspection Date			09-Feb-2012						
Navigabil. Cl./Year											Lauren Korte						
			EC 35	C 35 TWP 12 RGE 6 W4M						a Entry	Date		25-Mar-2012				
				11, 50:02:40						Reviewer Name			Garry Roberts				
Road Authority		Albert	ta Tra	ansporta	tion (Al	Γ)			Review Date			26-Feb-2012					
Contract Main. A	Area	CMA2	23							Dept. Reviewer Name			Tim Davies				
Clear Roadway/	Skew	13.4 /	/ -37 d	deg. (LH	IF)					ot. Revie		9	29-Mar-201	2			
AADT/Year		23,24	10 / 20	011 (A)					Foll	low-Up I	Ву						
Road Classificat	tion	RFD-	412.4	-130													
Detour Length (I	km)	1															
Allowable Load	(t): Sir	ngle C	CS1 2	28		Semi	C	S2 49			Train	CS	3 62		> On Criti	cal Spans	
Design Loading:			MS23														
Design Loading.		Į IV	VIOZO				P	osting I	nforn	nation					> Primary	оран	
Required Load F	Postino	ı (t)			Single			Jaung I	Semi			Truck Train					
Posted Loading) (-)			Single					Semi				Truck Train			
Posted:	Lane	EE	 B		At Junc	tion (Y/	N)	No		In Adva	ance (Y	′/N)	No		ridge (Y/N)	No	
Posted:	Lane	W	 В		At Junc	•		No		In Adva	•		Yes		ridge (Y/N)	No	
Remarks					/ 2-way	•			ructio		•		1		-3-()		
Hazard Marker				No				<u> </u>									
Remarks 24-46-62.5 small sign					II sign a	dva	nce W/E	3 2-wa	av traffic	D.							
Other Sign Type	es				peed, m												
							U1	tilities (l	Loca	ted at)							
Utility Attachme	nts																
Telephone									Gas								
Power	Main	lines to	o Sout	th.					Mur	unicipal							
Others	Light	standa	ards.							Problem (Y/N) No							
Remarks																	
								Approa									
Horizantal Alia	m.c.:.1					L	.ast			Explanation of Condition							
Horizontal Alignma							6	6	Uur	Curve and hill East.							
Vertical Alignme Roadway Width				12.300			6	6	Day	Doving lip broken, Om V 200-rem V 05-rem DD -1 M/D 1				ance of Mast			
Approach Bump	· ,		1	12.300				4	Paving lip bro abutment dec		broken- 2m X 300mm X 25mm DP at W/B lanes at West deck joint.						
				Vas			5	4	Cor	ncrete B	arrier						
Guardrail (Y/N) Yes Guardrail				5	5	- 001	IOI EIE D	antel.									
Length (m)			1	45.000			J	J									
Current Stand	ard (Y	(N)		+5.000 Yes													
Termination T		. •/		TURND	OWN												
Drainage	,,,,,			. 0. (14)	J 1111		6	6									
Approach Road	d Gene	eral Ra	ating				6	6									

					Supers	structure				
Bridge Comp	onent			Last		Explanation of Condition				
		ıns, Lengths(ı	n): 37.5-37.8-	37.8-3		9-37.8-37.8-37.5, A-Ident Number:)				
Special Feat		<u> </u>	<u>, </u>			,				
Special Featu				7	7					
(SType : EX	T SHEAR ST	TIRRUP)								
Special Featu		,			Х					
(Type:)										
	ace/Deck Top	Detail Rating	S							
	N (%)	(%) 1 (%) 2 (%))					
Last	0	0			0					
Now	0.0	0.0	0.0	0.0						
Wearing Surfa	ace			4	4	Epoxy and chip coat over concrete.				
		ETE - CONVE	NTIONAL CH	IIP SE	AL	About 5% of epoxy failed at A1 and several pier joints.				
COAT)						Delineators down center of bridge- temporarily 2 way traffic.				
(Thickness(
Lateral Conne	ection Probler	m No								
Deck Top				N	N					
реск тор				IN IN	IN					
Deck Rideabi	lity			7	7	Paving lip at W/B lanes at West abut joint broken out 2m X 300mm X 25mm deep.				
Deck Joints				3	3	(E abut joint-3 broken finger welds.)- could not confirm.				
Temperatur	re (deg. C)	-10								
· .	· • ·	ER PLATES;A	RMOURED 6	I AND)	(40mm gap-pier 6). (40mm gap-pier 7).				
(WABO UN	DER FINGER	R OR SLIDING SFLEX, ETC))	PLATES);G	LAND		(130mm gap-E abut).				
(Fixed Type	e:)					(P-4 joint - several broken finger welds West abut joint-6 broken finger toe welds).				
Gap Size (n	nm)	Gap I	_ocation			· · · · · · · · · · · · · · · · · · ·				
115		W ab	ut			Finger joints A1- P4- A2. Strip seal-at all others.				
40		Pier 1				Joints gravel filled and traffic too heavy to inspect or measure joint				
15		Pier 2)							
15		Pier 3	}							
190		Pier 4								
40		Pier 5	j							
Deck Drainag	е			7	7					
Drains Clog	ged (Y/N)	No								
Curbs/Mediar	1			3	3	Surface spalls @ 10% of barrier.				
(Curb Type	: Standard)									
Scaling (Pe	rcent Area)	20								
Bridge Rail				3	3	Pedestrian rail @ South- 18 missing or loose top connector bolts.				
(Type : ALU	JMINUM VER	RTICAL BAR)				1 Bent vertical @ panel #7 from SE with 220mm spacing @ pedrail.				
Bridge Rail Po	osts			4	4					
(Type : ALU	JMINUM;ALU	JMINUM)				Several post A/B nuts with less than full thread.				
Bridge Rail/Posts Coating					X					
(Type:)										
Sidewalk				4	4	Electrical access panels @ sidewalk @ P2 + P4 missing 5 bolts. 120 X 300 spall @ P5, Del AM cracks @ P3.				
Girder Detail I	Ratings									
	N (count)	1 (count)	2 (count)	3 (cc	ount)					
Last	0	0	0		0					
Now	0	0	0		0	1				

			Suporc	tructure
Bridge Component				Explanation of Condition
	enaths(m): 37 5-37 8-			-37.8-37.8-37.5, A-Ident Number:)
Girders		4	4	Typical medium width chamfer cracks & long cracks @ webs.
Cracking (Y/N)	Yes] "
Spalling (Percent Area)	1			Minor spalls @ SE G1 & G2 @ bearing @ abut.
(Number Of Girders : 80)				
Diaphragms/Cross Frame		6	6	
Diaprilagitis/Cioss Flame		0	0	
Bearings		5	5	Retaining block @ NW abut-broken.
Temperature (deg. C)	-10			NW bearing is slid 20mm off masonary plate @ West abut.
(Expansion Type : REINFOR	CED NEOPRENE BEAL	RING V	VITH	No change from past inspections.
TEFLON AND STAINLESS S (Fixed Type : REINFORCED TEFLON AND STAINLESS S	NEOPRENE BEARING	WITH		
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside	100	7	7	Only and 2 spans @ West and seen & 2 spans @ Fast seen
	1	7	7	Only end 3 spans @ West end seen & 3 spans @ East seen.
Stains (Percent Area)	<u> </u> 1			
Span Alignment Problems	No			
Vertical (Y/N)	No			
Horizontal (Y/N)				
Superstructure General Ratin	g	4	4	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Ctability		7	7	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				7 piers.
Bearing Seats/Caps		6	6	Wide cracks @ top @ pier #5 @ South & 4, 5 @ North - outside of
(Type : CONCRETE)				bearing area.
(Total Number of Bearing Piles	: 0:0:0:0:0:0:0)			
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		Х	Х	
Nose Plate		7	7	
Paint/Coating		5	5	@ Nose plate - no paint on concrete.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	Too deep and ice.

			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Debris (Y/N)	No							
Substructure General Rating	'	6	6					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : S)								
(D/S Direction: N)			_					
Alignment		7	7					
Bank Stability								
HWM (m below Top of Curb)	7.0			No visible HWM.				
Drift (Y/N)	No							
Slope Protection		6	6	With class 2 @ toe.				
(Type : CONCRETE; CONCRE	ETE)			Minor breakage @ abut @ SE.				
Guidebank/Spurs		Х	X					
Adequacy of Opening			7					
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		6	6					

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance Re	commend	ations					
Inspector Recommendations	Yea	ar	Inspector Comments		Department Comr		Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	201	13	Install 16 missing rail bolts- tighten of	thers.						
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS	201	13	Patch jersey Barriers .							
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	201	13	Weld Fingers- check all fingers- if no Patch paving lip @ NW abut joint.	t done.						
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSIG	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	201	13	Patch sidewalk spalls @ P5.							
OTHER ACTION	201	13	Install bolts @ sidewalk. Electrical plates-5.							
OTHER ACTION		13	Repair pedrail panel #7 from East.							
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	ow) 55.0	.6/55.0	6 Sufficiency Rating (Last/N (%)	low) 5	6.8/56.8	Est. Repl. Yr	2032	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	·				Department Comments			,		
Maintenance Reviewed By					Date		E	stimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Garry		erts		Previous A	Assistant's Name					
Next Inspection Date	09-Nov-20	13		Previous I	nspection Date	14-Jul-2010				
Inspection Cycle (Default) (months)	21									
Comment										