

Bridge Inspection									
Bridge File Number	78576 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1995/1995				Lot No.	2			
Bridge or Town Name	MEDICINE HAT				Inspector Name	Tom Carey			
Located Over	1:21 R1 8.597;1:21 L1 8.598				Inspector Class	BR CLS A			
Located On	14055:02 R1 0.054;14055:02 L1 0.067				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	07-Feb-2012			
Legal Land Location	NW SEC 19 TWP 12 RGE 5 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-110:40:58, 50:00:43				Data Entry Date	25-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	26-Feb-2012			
Clear Roadway/Skew	25.3 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	5,000 / 2004 (E)				Dept. Review Date	29-Mar-2012			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25					----> Primary Span			

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 1 L1 5.9m, 1 R1 5.6m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	5.6	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.9	In Advance (Y/N)	No
Remarks		Measured VC July 14, 2010 at 5.712 E/B and 6.010 W/B. Posting is accurate										
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks		Not required.										

Hazard Marker At Bridge (Y/N)	No											
Remarks	Speed, Route.											
Other Sign Types												

Utilities (Located at)												
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE											
Telephone	South R/W.				Gas							
Power	5 West to NE.				Municipal	Man Holes @ SE.						
Others	Light standards.				Problem (Y/N)	No						
Remarks	Underside deck lighting.											

Approach Road												
				Last	Now	Explanation of Condition						
Horizontal Alignment				5	5	Traffic Light intersections North & South.						
Vertical Alignment				5	5	College Ave is roadway over bridge.						
Roadway Width (m)		24.000				Minor settlement at South. Shallow potholes @ SE.						
Approach Bump				5	4							
Guardrail (Y/N)		Yes				Wrong lap at NW.						
Guardrail				4	4	NW guardrail not attached to concrete parapet.						
Length (m)		15.000										
Current Standard (Y/N)		Yes										
Termination Type		Turndown										
Drainage				4	4	Erosion under SE top slope protection and minor erosion @ NW.						
Approach Road General Rating				5	5							

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PB, 2 Spans, Lengths(m): 30.8-30.8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			8	8	
Temperature (deg. C)		-6			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
40		South Abut			
40		North Abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Red Brick @ median.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	West outside rail @ pier @ North span has one post with a spalled grout pad also 1 post at Sp 2 West traffic rail. Several A/B not fully tight at ped. rail 20& failure of top coat. Primer Good.
(Type : BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type : PAINT)					
Sidewalk			7	7	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			8	8	Minor hairline cracks @ sides @ ends of fascia girders. 2% coating failure @ fascia girders. 4 continuous girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 8)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 2 Spans, Lengths(m): 30.8-30.8, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	At abuts. Integral @ pier.
Temperature (deg. C)	-6			
(Expansion Type : POT BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	Red Brick Facing.
Piles		N	N	
Paint/Coating		5	5	Isolated minor failure.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	Red Brick Facing.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				2 massive pier shafts.
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	1% failure.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		4	4	Wrong lap at SE, NW.
Type	Guardrail			
Slope Protection		8	8	Red Brick Facing.
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Grout West outside rail pad @ North span @ pier and Sp 2 West traffic post.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair void under SE and NW slopes. 0.5m3 grout or ACP.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Attach NW guardrail to concrete parapet.					
OTHER ACTION	2012	Patch potholes @ SE approach.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	68.8/68.8	Est. Repl. Yr	2068	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	07-Nov-2013		Previous Inspection Date	14-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							