

Bridge Inspection											
Bridge File Number	71340 W-2 Bridge				Form Type	SG					
Year Built/Year Supstr	1983/1983				Lot No.	4					
Bridge or Town Name	MEDICINE HAT				Inspector Name	Tom Carey					
Located Over	CPR				Inspector Class	BR CLS A					
Located On	1:22 L1 0.619				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	09-Feb-2012					
Legal Land Location	NE SEC 9 TWP 12 RGE 5 W4M				Data Entry By	Anne Roberts					
Longitude, Latitude	-110:37:16, 49:59:07				Data Entry Date	26-Mar-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA23				Review Date	26-Feb-2012					
Clear Roadway/Skew	12.5 / -54 deg. (LHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	9,190 / 2011 (A)				Dept. Review Date	29-Mar-2012					
Road Classification	RAD-412.4-120				Follow-Up By						
Detour Length (km)	1										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> Primary Span	

Posting Information															
Required Vert. Clearance Posting (m)															
Posted Vertical Clearance (Y/N)										No					
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)				
Remarks										Nto required					
Required Load Posting (t)										Single		Semi		Truck Train	
Posted Loading (t)										Single		Semi		Truck Train	
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)								
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No							
Remarks										Not required					
Hazard Marker At Bridge (Y/N)										Yes					
Remarks															
Other Sign Types										BRIDGE ICES					

Utilities (Located at)										
Utility Attachments										
Telephone	N ditch				Gas					
Power	N side, 5-wire; 30m FROM C.L.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road										
				Last	Now	Explanation of Condition				
Horizontal Alignment				8	8					
Vertical Alignment				6	8					
Roadway Width (m)		12.500								
Approach Bump				8	8					
Guardrail (Y/N)		Yes								
Guardrail				4	4	Missing 4 splice bolts at SE, NW and NE Non standard splice bolts at SE and NW				
Length (m)		50.000								
Current Standard (Y/N)		No								
Termination Type		TURNED DOWN								
Drainage				8	8	Not thriebeam				
Approach Road General Rating				6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 24-28-24, A-Ident Number: A0912-02)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Deck top is wearing surface	
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			9	8	With fibres	
(Material Type : CONCRETE)						
(Thickness(mm) : 70)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			9	8		
Temperature (deg. C)		-10				
(Expansion Type : FINGER PLATES)						
(Fixed Type : FINGER PLATES)						
Gap Size (mm)		Gap Location				
110		West				
120		East				
Deck Drainage			7	7	No Drains	
Drains Clogged (Y/N)		No				
Curbs/Median			6	6	FLEX CRACKS EVERY .6-.9m w/LEACHING ON OUTSIDE LOWER EDGE	
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail			8	8		
(Type : BRIDGE TUBE)						
Bridge Rail Posts			8	8		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type :)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	Minor sag in bot flange of ext giders8	
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 24-28-24, A-Ident Number: A0912-02)				
Paint Condition		X	X	CORROSION SCALING-STARTING ON OUTER GIRDERS.
(Colour Description :)				Weathering steel
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	-10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Hairline transv. cracks every .3 -.5m.
Stains (Percent Area)	1			MINOR LEACHING @ EXTERIOR.
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
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		8	8	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : BROWN)				
(Colour Code : 30252)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	67.1/67.1	Est. Repl. Yr	2052	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection		Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
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Proposed Long-Term Strategy					
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On 3-Year Program (Y/N)					
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Proposed Action					
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Previous Inspector's Name	Garry Roberts	Previous Assistant's Name			
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Next Inspection Date	09-Nov-2013	Previous Inspection Date	21-Jul-2010		
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Inspection Cycle (Default) (months)	21				
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Comment					
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