

Bridge Inspection											
Bridge File Number	78570 W-2 Bridge					Form Type	SG				
Year Built/Year Supstr	1981/1981					Lot No.	2				
Bridge or Town Name	MEDICINE HAT					Inspector Name	Tom Carey				
Located Over	14062:02 L1 0.083;14062:02 R1 0.084					Inspector Class	BR CLS A				
Located On	1:21 L1 2.216					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	07-Feb-2012				
Legal Land Location	NE SEC 3 TWP 13 RGE 6 W4M					Data Entry By	Lauren Korte				
Longitude, Latitude	-110:44:22, 50:03:20					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	12.2 /					Dept. Reviewer Name	Tim Davies				
AADT/Year	20,270 / 2011 (A)					Dept. Review Date	29-Mar-2012				
Road Classification	RFD-412.4-130					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:	MS23					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 14062 L1 5.4m, 14062 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		(Measured 5.506 S/B and 5.502 N/B. Posting is accurate)										

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		CURVE SPEED INFO.											

Utilities (Located at)														
Utility Attachments														
Telephone							Gas							
Power							Municipal		Lighting @ deck underside.					
Others							Problem (Y/N)		No					
Remarks														

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	7	Over box spring road.	
Vertical Alignment		7	7		
Roadway Width (m)		12.500			
Approach Bump		6	6		
Guardrail (Y/N)		Yes		Wrong lap at SW and missing 4 splice bolts at NW.	
Guardrail		4	4	Missing 4 splice bolts at SE. Not thriebeam.	
Length (m)		41.000			
Current Standard (Y/N)		No			
Termination Type		TURNDOWN			
Drainage		4	4	Minor erosion @ NW.	
Approach Road General Rating		7	7		

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 2 Spans, Lengths(m): 25-25, A-Ident Number: A0857-04)						
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			4	4	Wide transverse & long cracking. Patched area outside North shoulders- Patches spalling @ Span. 1 spall in Sp 1- 300 mm D.A @ North shoulder lane. Moderate popouts.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7		
Temperature (deg. C)		-6				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
55		E abut				
40		W abut				
Deck Drainage			7	7	No deck drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	6	Vertical cracking @ 0.8m spacing.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			6	6	Missing isolated splice bolts at fixed joints but not required. 6 A/B nuts with insufficient thread at South and 2 at North rail.	
(Type : BRIDGE TUBE)						
Bridge Rail Posts		4	4			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		6	6			
(Type :)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	8 lines of girders.	
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, 2 Spans, Lengths(m): 25-25, A-Ident Number: A0857-04)				
Paint Condition		X	X	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		5	5	Both nuts missing @ East abut @ one bolt @ G5.
Temperature (deg. C)	-6			
(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		7	7	Minor stains @ exterior.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	Tar coating.
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 : 7)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		6	6	White paint on piles.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	6	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	
Traffic Safety Features		7	7	
Type	MEDIAN			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

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	2012	0.5m2 deck spall @ span 1 outside lane and North shoulder.					
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	2012	G.F.E Fill cracks in deck.					
OTHER ACTION	2012	Install N/B advance V.C slow.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	55.7/54.6	Est. Repl. Yr	2042	Maint. Req. (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							