

Bridge Inspection										
Bridge File Number	73803 W-1 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	CPR				Inspector Class	BR CLS A				
Located On	1:21 L1 1.376				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	-110:44:37, 50:03:44				Data Entry Date	22-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 / -45 deg. (LHF)				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)												
Posted Vertical Clearance (Y/N) Yes												
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	7.0	In Advance (Y/N)	Yes	
Remarks (Measured S/B 7.25 W/B 7.210. Existing post 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		BRIDGE ICES CURVE										

Utilities (Located at)			
Utility Attachments			
Telephone	Buried in median of G/S.		Gas
Power			Municipal Light standards.
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves both ends. Limited site distance East
Vertical Alignment		6	6	
Roadway Width (m)	12.500			Missing 4 Bolts @ NW splice and wrong lap at SW. Not thriebeam.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	99.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 4 Spans, Lengths(m): 23-28-28-20, A-Ident Number: A0858-07</b> )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			5	5	Medium long, transverse deck cracking Some popouts throughout.	
(Material Type : )						
(Thickness(mm) : )						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	4	Inside lane has no plow guards only installed @ outside lane & 1 missing @ East and 3 missing @ West. Other than this deck joints rate 8.	
Temperature (deg. C)		-6				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
60		E. ABUT.				
80		W ABUT.				
Deck Drainage			7	7	No deck drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	6	Shrinkage cracks-sealed.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Approx 8 A/B nuts with less than full thread engaged.	
(Type : <b>BRIDGE TUBE</b> )						
Bridge Rail Posts			4	4		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			6	6		
(Type : )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			X	X	7 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
<b>(Primary Span : WG, 4 Spans, Lengths(m): 23-28-28-20, A-Ident Number: A0858-07)</b>				
Paint Condition		X	X	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	Bearings rehabed. All bearings cut back to clear backwall.
Temperature (deg. C)	-6			
<b>(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)</b>				
<b>(Fixed Type : ROCKER BEARING)</b>				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Minor stains @ exterior.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	Medium Width crack @ middle @ West and @ NE.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		6	6	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
<b>(Total Number of Bearing Piles : 6:6:6)</b>				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : <b>YELLOW</b> )				
(Colour Code : <b>13538</b> )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	Local road East of tracks.
Traffic Safety Features		6	6	
Type	GUARDRAIL			
Slope Protection		6	6	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

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	2012	Install plow guards at abut joints-5.					
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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.4/64.4</b>	Est. Repl. Yr	2032	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							