

Bridge Inspection										
Bridge File Number	73803 E-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	CPR					Inspector Class	BR CLS A			
Located On	1:21 R1 1.322					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	07-Feb-2012			
Legal Land Location	NW SEC 3 TWP 13 RGE 6 W4M					Data Entry By	Erin Roberts			
Longitude, Latitude	-110:44:39, 50:03:45					Data Entry Date	23-Mar-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23					Review Date	20-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)	7.0	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)	Yes								
Remarks		Measure 7.32. Existing posting is accurate																		
Required Load Posting (t)			Single			Semi			Truck Train											
Posted Loading (t)			Single			24.0			Semi			46.0			Truck Train			62.5		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N)	No												
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)													
Remarks		One general sign @ East and West of Medicine Hat. Posting not required																		
Hazard Marker At Bridge (Y/N)		Yes																		
Remarks																				
Other Sign Types		BRIDGE ICES, CURVE																		

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curves both ends and limited site distance West.
Vertical Alignment		6	6	
Roadway Width (m)		12.500		Missing 4 bolts NW. Wrong lap at NE. 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		5	5	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : <b>WG, 4 Spans, Lengths(m): 23-28-28-20, A-Ident Number: A0858-01</b> )								
<b>Special Features</b>								
Special Feature								
(Type : )								
Special Feature								
(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			6	6	Deck has moderate pop-outs. Has been patched & sealed.			
(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. 2 missing at East and 3 missing at East. Other than this deck joints rate 8.			
Temperature (deg. C)		-60						
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )								
(Fixed Type : )								
Gap Size (mm)		Gap Location						
80		E. ABUT.						
55		W abut						
Deck Drainage			7	7	No deck drains			
Drains Clogged (Y/N)		No						
Curbs/Median			6	6	SHRINKAGE CRACKS ALONG CURB LINES AND LEACHING - sealed			
(Curb Type : <b>Standard</b> )								
Scaling (Percent Area)		0						
Bridge Rail			7	7	Several post A/B nuts are just flush			
(Type : <b>BRIDGE TUBE</b> )								
Bridge Rail Posts			6	6				
(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.			
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: A0858-01)</b>				
Paint Condition		X	X	Weathering Steel
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	Bearing rehabbed. 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 STAINING VISIBLE @ 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	5	Wide crack @ NW.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		6	6	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
<b>(Type : PIER-COLUMN)</b>				
Bearing Seats/Caps		7	7	
<b>(Type : 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	
<b>(Colour Description : YELLOW)</b>				
<b>(Colour Code : 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>5</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 -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>72.2/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.4/61.9</b>	Est. Repl. Yr	2032	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	07-Nov-2013	Previous Inspection Date	14-Jul-2010
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Inspection Cycle (Default) (months)	21
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Comment	
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