

Bridge Inspection									
Bridge File Number	73802 W-1 Bridge				Form Type	CON			
Year Built/Year Supstr	1954/1954				Lot No.	2			
Bridge or Town Name	MEDICINE HAT				Inspector Name	Garry Roberts			
Located Over	SOUTH SASKATCHEWAN RIVER, 2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	1:21 L1 4.104				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Jul-2010			
Legal Land Location	NE SEC 35 TWP 12 RGE 6 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-110:43:11, 50:02:40				Data Entry Date	21-Aug-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA23				Review Date	28-Jul-2010			
Clear Roadway/Skew	7.9 / -37 deg. (LHF)				Dept. Reviewer Name	Lorenz Bohnert			
AADT/Year	23,350 / 2009 (A)				Dept. Review Date	23-Aug-2010			
Road Classification	RAD-412.4-120				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single		Semi		Train				----> On Critical Spans ---->Critical Member
Design Loading:	HS20								----> Primary Span
Posting Information									
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)		In Advance (Y/N)		At Bridge (Y/N)		
Posted:	Lane	WB	At Junction (Y/N) No		In Advance (Y/N) Yes		At Bridge (Y/N) No		
Remarks	Loading Posted one small sign in advance - W/B								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Hazard marker at SE only								
Other Sign Types	Speed information, curve								
Utilities (Located at)									
Utility Attachments									
Telephone	6 conduits @ S curb under.				Gas				
Power	Main lines to S @ both curbs				Municipal				
Others	Light standards				Problem (Y/N)	Yes			
Remarks	Disconnected wire @ NW								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Trees overhang bridge @ NE				
Vertical Alignment			6	6					
Roadway Width (m)	12.100								
Approach Bump			6	5					
Guardrail (Y/N)	Yes				Minor mower damage at SE				
Guardrail			6	5	Not thriebeam				
Length (m)	36.600								
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 8 Spans, Lengths(m): 28.3-37.8-37.8-37.8-37.8-37.8-28.3, A-Ident Number:)					
Special Features					
Special Feature		4	4	(8 spans 28.3,37.8,37.8,37.8,37.8,37.8,37.8,28.3 - steel reinf deck w/s of S1&S8. Missing bolts) 02.07.08	
(SType : DK UNDER REINF)					
Special Feature			X	Only east hanger seen	
(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		5	4	New ACP @ Outside lane @ spans 4, 5, 6 300x300 spall in shoulder lane over East pipe	
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top		N	N		
Deck Rideability		6	6		
Deck Joints		3	3	Gland @ W cantilever is torn @ outside & East cantilever gland is torn @ inside lane 80mm gap, E cantilevered joint 85 gap, W cantilevered joint East abut joint gland torn @ outside lane and damaged extrusion West abut joint torn @ outside lane	
Temperature (deg. C)		15			
(Expansion Type :)					
(Fixed Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES);GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
60	E abut				
60	W abut				
Deck Drainage		5	6		
Drains Clogged (Y/N)		No			
Curbs/Median		3	3	spalls and scaling @ north curb face @ Spans 4 & 5	
(Curb Type : Standard;None)					
Scaling (Percent Area)		1			
Bridge Rail		5	5	Steel panels along outside of curbs with continuous steel tube along traffic side	
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4	Sever crking & delam exposing rebar 75% of posts are crked & 30% are spalling @ outside - is old bridge rail	
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5	Tube retro rail in front of outside rail - 20mm bend @ NE	
(Type :)					
Sidewalk		5	5		
Girders		3	3	1 & 8 have shear crks at 2/3 span Girders area cast into top of pier at fixed bearings Spalls @ S-8 @ S girder & deck underside over pathway. Only end girders seen from abuts. (S2 thru 7 have shear crk on N gird). Some trans crks with leaching @ exterior @ deck underside Cracks longitudinally @ S8 @ G1 &3	
Diaphragms/Cross Frame		5	5	Vert crk W abut diaphragm btwn G1/G2	
Bearings		7	7	Bearings at P 1-3-5-7	
Temperature (deg. C)		115			
(Expansion Type : DISC BEARING)					
(Fixed Type : DISC BEARING)					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 8 Spans, Lengths(m): 28.3-37.8-37.8-37.8-37.8-37.8-28.3, A-Ident Number:)				
Deck Underside		4	4	Only 2 spans @ west & 3 @ east seen corrosion @ spalled @ deck exterior under curbs
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			Skew pressures have caused wingwalls to crack (& hanger pin jts to open up) (30mm on S side)
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		6	6	
Backwalls/Breastwalls		5	5	
Wingwalls		4	4	Wide cracks - 15 to 20mm @ wings and 3mm @ abut breast wall & spalls
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		5	6	
Scour/Erosion		8	7	
Piers/Bents				
(Type : PIER-SOLID)				7 piers
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Pier Shaft/Piles		6	7	
Nose Plate		7	7	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	Water too dark too see scour
Debris (Y/N)	No			
Substructure General Rating		5	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	7.0			No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	Rock @ toe of slope
(Type : CONCRETE; CONCRETE)				

Structure Usage				
		Last	Now	Explanation of Condition
Guidebank/Spurs		X	X	
Adequacy of Opening		8	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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	2010	0.2 m3nh North curb Sp 4 and 5					
PATCH DECK							
SEAL DECK	2010	Chip coat and patch					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2010	Replace glands @ east abut and west cantilever & @ both ends					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	Install loading signs @ correct loc & size					
OTHER ACTION	2010	Repair Wiring @ NW					
OTHER ACTION	2010	Cut back Trees @ NE					
OTHER ACTION	2010	Patch girders & deck underside @ South Exterior					
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	42.8/44.8	Est. Repl. Yr	2024	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	14-Apr-2012		Previous Inspection Date	09-Oct-2008			
Inspection Cycle (Default) (months)	21						
Comment							