

Bridge Inspection									
Bridge File Number	07401 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1980/1980				Lot No.	2			
Bridge or Town Name	GLENWOOD				Inspector Name	Jason Rusu			
Located Over	WATERTON RIVER, 2.12.22.5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	810:02 C1 8.534				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Nov-2012			
Legal Land Location	NW SEC 31 TWP 5 RGE 26 W4M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-113:29:58, 49:25:52				Data Entry Date	15-Dec-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	01-Dec-2012			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	540 / 2011 (A)				Dept. Review Date	27-Dec-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	50								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS230						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	Waterton River								
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-Telus telecom facility May 2005								
Telephone	@ west R/W				Gas				
Power	e. side 3 line				Municipal				
Others	ditch drain NE headslope				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8					
Vertical Alignment			6	6					
Roadway Width (m)	8.500				Not thriebeam				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	34.200								
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			3	3	Undermining @ SW approach slab - 300mm deep SE trough drain Broken				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : OM, 3 Spans, Lengths(m): 30.8-39.9-30.8, A-Ident Number:)					
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			6	5	shrinkage cracks, patch jobs, rough finish, large transverse crack near n. pier, 200mm HIGH CURB. 500mm DIA. x 25mm Deep spall in North bound lane near abut 1.
(Material Type : CONCRETE)					
(Thickness(mm) : 100)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			4	4	2nd plate from west @ north abut joint and 3rd plate from west @ south abut joint have one sheared bolt each- both in SB lane
Temperature (deg. C)		7			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
100		n. abut.			
75		s. abut.			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Exposed water stop at SW 2 Curb Fascia spalls under bridge posts 1 @ SE and 1 @ center span West
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	6 A/B nuts at east and 9 at west curb wit insufficient thread. 1 loose A/B nut at NW. Missing grout and void under several post bases in span 1 and 2 East curb.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			5	5	Medium width cracks @ outside of SE exterior girder Veritcal cracks @ piers Hairline cracks @ webs 4/span
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 4)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : OM, 3 Spans, Lengths(m): 30.8-39.9-30.8, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	@ A2 and P2 @A1 and P1
Temperature (deg. C)	7			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	Precast slabs
Stains (Percent Area)	0			
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		6	6	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		5	5	Steep bank at north but not presently affecting abut.
Piers/Bents				
(Type : PIER-SOLID)				Toe of S headslope eroded
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				narrow weblike cracks on shaft
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		6	6	Galvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	6	
Debris (Y/N)	Yes			Minor
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		4	4	Stream curves to north abut steep, erodable n. bank, S BANK eroding @ toe
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		5	5	Natural @ south eroded
(Type : NATURAL; RIP RAP)				Class 3 Rock @ north which is sound - stream flows against north headslope
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Repair grout pads and fascia spalls, deck spall patch over SW water stop 0.02m3.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace bolts @ North and South abuts - 2 bolts					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fill hole @ SW approach pump grout					
OTHER ACTION	2013	Patch SE Trough - 0.01mNH					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.1/59.6	Est. Repl. Yr	2038	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	18-Feb-2016		Previous Inspection Date	08-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							