

Bridge Inspection											
Bridge File Number	00589 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1964/1964				Lot No.	3					
Bridge or Town Name	HIGH RIVER				Inspector Name	Jason Rusu					
Located Over	HIGHWOOD RIVER, 2.13.27, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	2A:04 C1 2.869				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	11-Aug-2012					
Legal Land Location	NW SEC 6 TWP 19 RGE 28 W4M				Data Entry By	Lauren Korte					
Longitude, Latitude	-113:52:21, 50:34:59				Data Entry Date	05-Sep-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA27				Review Date	19-Aug-2012					
Clear Roadway/Skew	8.5 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	10,400 / 2011 (A)				Dept. Review Date	06-Sep-2012					
Road Classification	RAU-209-110				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20								----> 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 required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	50 km/hr zone.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	Conduit under West curb.				Gas	22.0 m East.			
Power	4 wires 10m East side. 4 wires 50m West and crosses to South.				Municipal				
Others	2 pipelines under water @ West 5m. Street lights at West side.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Within city limits, intersection to the North and South.				
Vertical Alignment			7	7					
Roadway Width (m)		10.400							
Approach Bump			6	6					
Guardrail (Y/N)		Yes							
Guardrail			4	4	@ East side. Wrong lap at NE.				
Length (m)		15.000							
Current Standard (Y/N)		No							
Termination Type		TERMINAL							
Drainage			6	6					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 2 Spans, Lengths(m): 26.5-26.5, A-Ident Number: A0433-01)					
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	5	Missing approx. 1m2 of chipcoat.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			5	6	
Deck Joints			6	6	
Temperature (deg. C)		25			
(Expansion Type : SLIDING PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
35		South abutment			
80		North abutment			
Deck Drainage			4	4	Sliding plates allows drainage to corrode bearings.
Drains Clogged (Y/N)		No			
Curbs/Median			4	5	Minor Spall near post anchor of 5th post from North, West curb.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	5	Galvanized steel tube rail @ sidewalk also Superficial corrosion @ rock chips - 2% of rail.
(Type : VERTICAL BAR)					
Bridge Rail Posts			4	5	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	
(Type : PAINT)					
Sidewalk			5	4	0.2 mm wide cracks @ 2 m spacing. Spall 4 sections from North.
Girder/Beam					
Cover Plate			7	7	2 Notches with corrosion in flange of G1 near bearing @ South.
Flange			7	6	
Web			7	7	
Stiffeners			7	7	
Splice			6	6	
Weld			7	7	
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 2 Spans, Lengths(m): 26.5-26.5, A-Ident Number: A0433-01)				
Paint Condition		4	5	Girder ends have been painted.
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Touchup Required (Y/N)	No			
Bearings		4	5	@ Abutments. @ Pier.
Temperature (deg. C)	25			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Some cracks & efflorescence over pier.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	6	Flange rating governs.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	2mm wide cracks @ SW Side of abut. 1 minor spall at abut. 2.c
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		N	5	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Superficial rust.
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Drift caught on pier nose.
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	6	
HWM (m below Top of Curb)	1.0			Water to bottom flange of girders in June 2005 flood. Drift at pier. Drift removal required.
Drift (Y/N)	Yes			
Slope Protection		7	7	Class 3 rock @ NW & SW.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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							
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	2012	Removal before 2013.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	46.9/50.2	Est. Repl. Yr	2025	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	Jason Rusu			
Next Inspection Date	11-May-2014		Previous Inspection Date	11-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							