

Bridge Inspection										
Bridge File Number	71429 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1981/1981				Lot No.	2				
Bridge or Town Name	BRAGG CREEK				Inspector Name	Garry Roberts				
Located Over	ELBOW RIVER, 2.13.33, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	66:04 C1 5.972				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	13-Mar-2013				
Legal Land Location	NW SEC 30 TWP 22 RGE 5 W5M				Data Entry By	Lauren Korte				
Longitude, Latitude	-114:41:02, 50:54:08				Data Entry Date	06-Apr-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Ash Morjaria				
Contract Main. Area	CMA27				Review Date	20-Mar-2013				
Clear Roadway/Skew	10.9 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	1,470 / 2011 (A)				Dept. Review Date	08-Apr-2013				
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	999									
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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	River I.D., Bridge Ices.								

Utilities (Located at)									
Utility Attachments	OTHER UTILITIES-Wastewater; TELEPHONE UTILITIES-PHONE LINE								
Telephone	Located South side. Fibre optics @ North.				Gas				
Power					Municipal				
Others	6" waste water line attached North curb.				Problem (Y/N)	No			
Remarks	Utility box attached to NW stone wall at abutment.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Hills at both ends- curve to West.				
Vertical Alignment			5	5					
Roadway Width (m)	11.000					Bump at both ends- worst at A1 WBL.			
Approach Bump			5	4					
Guardrail (Y/N)			Yes		Missing 4 splice bolts at SE, 8 at NW, and 6 at NE.				
Guardrail			4	4	4 Splice posts at NW.				
Length (m)			60.000		Not thriebeam.				
Current Standard (Y/N)			No						
Termination Type			TURNED DOWN						
Drainage			3	3	1m deep ditch drain @ SE - rock lined @ slope. NW approach road drainage scour- 1m3. Minor spalling at SW slope drain.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RM, 3 Spans, Lengths(m): 25.125-25.25-25.125, 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	30	
Now	0.0	0.0	0.0	30.0	
Wearing Surface			3	3	Approx. 10m ² debonded @ center span. Approx. 50m ² debonded area @ West span. 0.5m ² spall into concrete deck at Sp.1 WBL.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 127)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	West joint sealed but has cracks and leakage with staining at A1. Missing 3 sidewalk corer plate bolts at NE, 2 at SE. @ A2 @ A1 Approx 1m ² deterioration at A1 paving lip. A2 has active leakage at NE corner. A1 has 200mm deep hole in bridge side of paving lip at North end at shoulder.
Temperature (deg. C)		9			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : COMPRESSION SEAL (ACME SEALS))					
Gap Size (mm)		Gap Location			
35			West		
90			East		
Deck Drainage			4	4	Leakage at A1 and A2 joints.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Steel H.S.S. bridgerail & timber pedestrian rail.
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			5	6	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			7	5	Isolated peeling of paint.
(Type : PAINT)					
Sidewalk			4	4	Patches at top parging spalled @ SW and NE. 3 isolated pocket spalls at South sidewalk.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			5	6	One construction chip out, North side Sp.1 above walkway, approx 150 mm dia (minor). 0.1 to 0.4 mm wide cracks in sides of fascia girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 33)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 3 Spans, Lengths(m): 25.125-25.25-25.125, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	Light corrosion at exterior sole plates.
Temperature (deg. C)	9			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Cracking on bottom of girders, more appearing at ends of girders. 0.4 mm wide x 300 mm long @ piers.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	Grouted rock. Some minor delams at tops.
Piles		N	N	Buried.
Paint/Coating		5	5	Tav coating.
Abutment Stability		8	8	
Scour/Erosion		5	5	Minor erosion at NW headslope.
Piers/Bents				
(Type : PIER-COLUMN)				Cracking in pier caps - minor. Small spall on East side of West pier cap. Graffiti at West pier columns- cons. officer requests removal/ covering
Bearing Seats/Caps		6	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Light corrosion at waterline.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		6	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Minor drift at piers.
Slope Protection		7	7	Class 2 and 3 mix of rock.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace 4 posts at NW approach rail.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Remove loose polymer and patch chipcoat- approx. 60m ² . Patch deck spall approx 0.3m ² .					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Investigate and seal both abut joints- repair 2m ² paving lip at A1 or install new deck joint at A1.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	5m ³ pitrun at NW corner and seal with ACP to allow drainage to reach trough.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch sidewalk spalls- approx. 0.5m ² . Remove loose parging and epoxy seal.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/72.2	Sufficiency Rating (Last/Now) (%)	58.1/63.4	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	Jason Rusu			
Next Inspection Date	13-Dec-2014		Previous Inspection Date	23-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							