

Bridge Inspection									
Bridge File Number	01303 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1953/1953				Lot No.	2			
Bridge or Town Name	CARDSTON				Inspector Name	Jason Rusu			
Located Over	LEE CREEK, 2.12.20.8, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:02 C1 24.284				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Oct-2011			
Legal Land Location	SE SEC 9 TWP 3 RGE 25 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-113:18:06, 49:11:45				Data Entry Date	19-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	09-Nov-2011			
Clear Roadway/Skew	11 / 30 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	2,940 / 2010 (A)				Dept. Review Date	21-Nov-2011			
Road Classification	RAU-213.4-110				Follow-Up By				
Detour Length (km)	2								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> 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	Not required								
Other Sign Types	2 WAY TRAFFIC								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	In area				Gas				
Power	West & East CURB CONDUITS				Municipal				
Others	LIGHT STANDARDS				Problem (Y/N)		Yes		
Remarks	West curb and North abut conduits have come apart								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		5	5	In town- intersections both ends.					
Vertical Alignment		5	5						
Roadway Width (m)	11.000								
Approach Bump		6	6						
Guardrail (Y/N)		No							
Guardrail		X	X						
Length (m)									
Current Standard (Y/N)									
Termination Type		NONE							
Drainage		7	7						
Approach Road General Rating		5	5						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CS, 5 Spans, Lengths(m): 10.1-13.4-13.4-13.4-10.1, 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			5	5	Random cracking throughout.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Buffer angles at abutments.
Temperature (deg. C)		3			
(Expansion Type :)					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)		Gap Location			
Deck Drainage			5	5	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Minor scrapes
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	5	SEVERAL POSTS WITH MEDIUM WIDTH CRACKS. Minor bends at some verticals. One post spalled @ 2 locations at NW. 2 damaged post caps at SE rail. Old Concrete post and steel vertical rail behind steel tube rail 1 A/B nut missing at West rail Sp.3
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts		3	3		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type :)					
Sidewalk			3	3	TRANSVERSE WIDE CRACKS ON SIDEWALK- both sides 1.6x250 spall at NW exterior corner extends.
Girders			4	4	SLAB shear type cracks over 40% of spans. 2mm wide crack @ S3 & S5 at West at side @ fascia extends 100mm under slab @ span #3 @ West.
Diaphragms/Cross Frame			X	X	
Bearings			X	X	Slab bears directly on abuts. and piers.
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			5	5	Random cracks throughout- some with staining
Stains (Percent Area)		3			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CS, 5 Spans, Lengths(m): 10.1-13.4-13.4-13.4-10.1, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		5	5	
Backwalls/Breastwalls		4	4	Spalling at previous patches. Large spalls at South abutment.
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Pier Shaft/Piles		5	5	VERTICAL WIDE CRACKS EACH PIER.
Nose Plate		X	X	
Paint/Coating		X	X	GRAFFITI
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		6	6	
Debris (Y/N)	Yes			Drift accumulation
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	Good veg on banks
HWM (m below Top of Curb)	3.0			Drift accumulation at P2
Drift (Y/N)	Yes			
Slope Protection		5	5	Natural
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	Flow under Sp.3

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Place 1-1" A/B nut- Replace 2 post caps.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	1.6x.025 spall at NW					
PATCH DECK							
SEAL DECK	2012	GFE seal deck					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	PATCH ABUT WALLS - approx. 8m2					
OTHER ACTION	2012	Repair conduits at West					
OTHER ACTION	2012	Epoxy inject slab cracks @ span 3 and 5					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	54.3/51.8	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				
Next Inspection Date	16-Jul-2013		Previous Inspection Date	21-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							