

Bridge Inspection									
Bridge File Number	00605 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1989/1989				Lot No.	4			
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	501:00 C1 5.895				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Jun-2012			
Legal Land Location	NW SEC 12 TWP 2 RGE 27 W4M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-113:29:14, 49:06:46				Data Entry Date	20-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	10-Jul-2012			
Clear Roadway/Skew	7.6 / 10 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	190 / 2011 (A)				Dept. Review Date	30-Jul-2012			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	24								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS226						----> 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 required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	50 km/hr, curve								
Utilities (Located at)									
Utility Attachments									
Telephone	s.side				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Int & curve 30m E				
Vertical Alignment			6	6					
Roadway Width (m)	8.800								
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Wrong lap at sw - missing 4 bolts at attachment to bridge rail - typ. all corners.				
Guardrail			4	4					
Length (m)	3.800				Not thriebeam				
Current Standard (Y/N)	No				Accident damage at SE- minor.				
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 4 Spans, Lengths(m): 10-10-11-8, 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			X	X	Some crking & spalling with corrosion staining @ connector pocket & lifting hooks
(Material Type : CONCRETE)					
(Thickness(mm) : 999)					
Lateral Connection Problem (Y/N)					
Deck Top			4	4	some longit.cracks center of some units for entire length
Deck Rideability			6	6	
Deck Joints			7	7	Buffer angles
Bump (Y/N)		Yes			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	some small vert. cracks, and some scrapes from grader
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Double layer
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type :)					
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			6	4	Corrosion staining @ bot of gird from connector pockets. Hairline diagonal cracks @ bottoms of exteriors @ piers Grouting has been dislodged. Early signs of corrosion staining at S1G1 and S1G7 at Pier 2.
Last Complete Inspection Date		09-Jun-2012			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 28)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
Backwalls/Breastwalls			N	N		
Not visible behind precast						
Greatest Height (m)		1.00				
Wingwalls			8	8		
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	1	0	0	0		
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				6	6	
Stained						
Abutment Stability			8	8		
Scour/Erosion			8	8		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles : 5:5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				8	8	
Greatest Height (m)		4.30				
Bracing/Struts/Sheathing			8	8		
Nose Plate			X	X		
Paint/Coating				8	8	
Galv.						
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			Minor drift on Pier 1
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Curves into the bridge
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	Erosion on the u/s bank
HWM (m below Top of Curb)	3.0			Drift On pier
Drift (Y/N)	Yes			
Slope Protection (Type :)		7	7	Natural rock
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	68.6/63.8	Est. Repl. Yr	2046	Maint. Req. (Y/N)	No
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	10-Sep-2015		Previous Inspection Date	18-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							