

Bridge Inspection										
Bridge File Number	74563 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1956/1956				Lot No.	1				
Bridge or Town Name	CZAR				Inspector Name	Owen Salava				
Located Over	RIBSTONE CREEK, 5.2, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	13:20 C1 5.583				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	29-Jun-2012				
Legal Land Location	NW SEC 36 TWP 40 RGE 6 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-110:44:25, 52:29:16				Data Entry Date	15-Jul-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA22				Review Date	05-Jul-2012				
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	1,380 / 2011 (A)				Dept. Review Date	19-Jul-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	8									
Allowable Load (t):	Single		Semi		Train		----> 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	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	Offset 800mm from curb line. At varying heights - not to std.									
Other Sign Types	Stream ID.									

Utilities (Located at)										
Utility Attachments										
Telephone	In r/w to south and north.				Gas	Crosses road 30m East. Gas North side of bridge.				
Power	4 wires 32m north of c/l.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Approaches @ 50m East.				
Vertical Alignment			5	6	Blinding crest curve 100m East.				
Roadway Width (m)	11.400				Wide transverse crack 10m East but sealed.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	6	SE - 8.5m type V1; NE - 19.9m type V1; NW - 27.5m; SW - 42.5m. Too short; insufficient posts.				
Length (m)	8.500								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HCO, 3 Spans, Lengths(m): 8.5-8.5-8.5, 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			4	6	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	N	
Bump (Y/N)		No	Paved over.		
Deck Drainage			4	4	
Drains Clogged (Y/N)		No	Concrete deteriorate @ underside of drain holes. Staining & cracking girder legs at connectors.		
Curbs/Median			4	4	
(Curb Type : Standard)					
Scaling (Percent Area)		40	A few minor chips. Scaling @ top face & plow damage on inside of NE corner.		
Bridge Rail			7	7	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			6	6	
(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	4	
Now	0	0	0	4	
Girders			3	3	
Last Complete Inspection Date		29-Jun-2012	22/39 have longit. cracks in AZ.		
Cracking (Y/N)		Yes	4 girders spalling/chipped with 3 in AZ (photo).		
Spalling (Percent Area)		1	13/39 have narrow shear cracks.		
Lift or Connector Pocket Grouted (Y/N)		Yes	3/39 have damage in bearing area.		
(Number Of Girders : 39)			W abut curb unit inside leg next to cap chipped exposing rusting rebar. 4/39 girders rated 3.		
			11/39 girders rated 4.		
			6/39 girders rated 5.		
			18/39 girders rated +6.		
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure									
Bridge Component				Last	Now	Explanation of Condition			
Abutments									
(Extended Backwall Piles (Y/N) : Y)				Extended backwall. Both East extension pile wire tiebacks are broken (photo).					
(Extended Backwall Piles Spacing(mm) : 1500)									
(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							7	7	
(Type : STEEL)									
(Depth(mm) : 356)									
(Width(mm) : 375)									
Backwalls/Breastwalls				4	4	Top planks at corners loose/damaged, some fill leaking (photos).			
Greatest Height (m)		2.40							
Wingwalls				6	4	NW plank broken & bulging. NE plank damaged.			
(Total Number of Bearing Piles : 10:10)				Steel capitals.					
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now	0	0	0				0		
Piles							6	6	
Paint/Coating							X	X	
Abutment Stability							4	4	Minor fill loss from top of backwall at corners (photos).
Scour/Erosion							7	7	
Piers/Bents									
(Type : PIER-COLUMN)									
(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				7	7				
(Type : STEEL)									
(Depth(mm) : 356)									
(Width(mm) : 375)									
(Total Number of Bearing Piles : 10:10)				North pile at east bent wrapped in geotextile cloth from waterline up.					
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now	0	0	0				0		
Pier Shaft/Piles							6	6	
Greatest Height (m)		3.00							
Bracing/Struts/Sheathing							4	4	3 split planks pier 2, minor (photo).
Nose Plate							X	X	
Paint/Coating							X	X	
(Colour Description :)									
(Colour Code :)									

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	29-Mar-2014	Previous Inspection Date	31-Aug-2010
Inspection Cycle (Default) (months)	21		
Comment			