

Bridge Inspection									
Bridge File Number	08122 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1973/1973				Lot No.	2			
Bridge or Town Name	BRUCE				Inspector Name	Owen Salava			
Located Over	TRIBUTARY TO VERMILION RIVER, 6.5.43, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	857:02 C1 13.315				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Jul-2011			
Legal Land Location	NW SEC 6 TWP 50 RGE 14 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:03:03, 53:17:36				Data Entry Date	09-Aug-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA14				Review Date	19-Jul-2011			
Clear Roadway/Skew	9.1 / 15 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	320 / 2010 (A)				Dept. Review Date	29-Aug-2011			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	8								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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)	Yes								
Remarks	Mounted to 1st guardrail post off bridge.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Long grade/crest curve to N. 0.5km/m sight distance. No passing.				
Vertical Alignment			7	7					
Roadway Width (m)	9.200								
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	19.300				Not thriebeam.				
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VH, 1 Spans, Lengths(m): 6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	100	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	
(Material Type : ACP)					
(Thickness(mm) : 120)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Patched.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	4 bolts per splice (should be 8) Single layer with improper splice detail.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			5	5	SE post A/B bent.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	11	0	0	0	
Girders			6	N	(Center girder stained on underside of slab. Drift spalls on 50% of girders. 07Jun2007).
Last Complete Inspection Date		07-Jun-2007			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No		Skew pressure has rotated bridge - 200 mm.	
Horizontal (Y/N)		Yes			
Superstructure General Rating			6	6	GR carried forward from 07Jun2007.

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : N)				Piles not anchored. Unable to view substructure; water 150mm from top of caps.			
(Extended Backwall Piles Spacing(mm) :)							
(Total Number of Caps/Corbels : 3:3)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)			3 (count)	
Last	0	0	0			0	
Now	6	0	0			0	
Bearing Seats/Caps/Corbels						7	N
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls						7	N
Greatest Height (m)		2.50					
Wingwalls				6	6		
(Total Number of Bearing Piles : 8:8)				Assumed 8:8 as per dwg S-860-73.			
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)			3 (count)	
Last	0	0	0			0	
Now	16	0	0			0	
Piles						6	N
Paint/Coating						X	X
Abutment Stability						7	N
Scour/Erosion						N	N
Piers/Bents							
(Type :)							
(Total Number of Caps/Corbels :)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Bearing Seats/Caps/Corbels				X	X		
(Type :)							
(Depth(mm) :)							
(Width(mm) :)							
(Total Number of Bearing Piles :)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing				X	X		
Nose Plate				X	X		
Paint/Coating				X	X		
(Colour Description :)							
(Colour Code :)							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	GR carried forward from 01Jun2007.
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				Channel poorly defined D/S.
(D/S Direction : W)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)	1.0			
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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	2012	Install 8 splice bolts. Consider replacing SE post.					
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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	70.6/69.3	Est. Repl. Yr	2019	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	Glen Smith		Previous Assistant's Name				
Next Inspection Date	14-Oct-2014		Previous Inspection Date	07-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							