

Bridge Inspection									
Bridge File Number	77581 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1966/1966				Lot No.	2			
Bridge or Town Name	RICINUS				Inspector Name	Owen Salava			
Located Over	RADIANT CREEK, 6.159.22, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	734:16 C1 6.171				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	30-Nov-2010			
Legal Land Location	SE SEC 31 TWP 35 RGE 11 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-115:33:10, 52:02:45				Data Entry Date	03-Jan-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	16-Dec-2010			
Clear Roadway/Skew	6.4 / 0 deg.				Dept. Reviewer Name	Chris Black			
AADT/Year	60 / 2009 (A)				Dept. Review Date	05-Jan-2011			
Road Classification	RCU-208G-90				Follow-Up By				
Detour Length (km)	100								
Allowable Load (t):	Single	CS1 28 GIRDER		Semi	CS2 49 GIRDER		Train	CS3 65 GIRDER	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
								----> 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	Offline.								
Other Sign Types	Radiant Creek signs (2).								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	(Loose bolt @ SE corner turndown. 23Nov2005). Insufficient posts / spacing, length.				
Vertical Alignment			7	7					
Roadway Width (m)		6.600							
Approach Bump			5	5					
Guardrail (Y/N)		Yes							
Guardrail			5	5					
Length (m)		12.000							
Current Standard (Y/N)		No							
Termination Type		TURNDOWN STD							
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 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 (%)	Snow covered.
Last					
Now	100.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Covered with snow.
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angle covered by snow.
Bump (Y/N)		No			
Deck Drainage			5	5	
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	(Minor plow damage. 23Nov2005). Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			5	5	Single layer.
(Type : FLEX BEAM)					
Bridge Rail Posts			6	6	Color faded.
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			4	5	G4 wide long. crack 1 leg (photo). Unknown.
Last Complete Inspection Date		30-Nov-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	5	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1000)					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				4	5
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			6	6	
Greatest Height (m)		2.60			
Wingwalls			4	4	Suspect rot in wing piles. Wingwall is extension of backwall.
(Total Number of Bearing Piles : 5:5)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Piles				4	5
Paint/Coating				X	X
Abutment Stability				5	5
Scour/Erosion				4	4
High water erosion @ all corners - photos.					
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 :)					
Pier Stability				X	X

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		4	4	(Flood eroded banks. Flood degraded channel. 23Nov2005). Vertical cut banks - photo.
HWM (m below Top of Curb)	1.8			1.0m below girder legs.
Drift (Y/N)	No			
Slope Protection		4	5	
(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		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade to meet standard (double layer).					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2011	Remove gravel from deck, if not done.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2011	80 yards Class II.					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2011	Restore banks @ all corners & armour.					
OTHER ACTION	2011	Upgrade approach rail to meet standard.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/55.6	Sufficiency Rating (Last/Now) (%)	54.5/58.9	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracking in girder legs.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2004.09.24 Review condition of caps after next BIM. Estimated Replacement Year 2016.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	28-Feb-2014		Previous Inspection Date	23-Nov-2005			
Inspection Cycle (Default) (months)	39						
Comment							