

Bridge Inspection										
Bridge File Number	79481 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	1995/1995					Lot No.	2			
Bridge or Town Name	MCKENZIE RD					Inspector Name	Owen Salava			
Located Over	2:24 R1 22.271;2:24 L1 22.263;RAMP 46-1 I					Inspector Class	BR CLS A			
Located On	25117:02 L1 0.162;25117:02 R1 0.189					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	14-Mar-2013			
Legal Land Location	SE SEC 29 TWP 37 RGE 27 W4M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:48:54, 52:12:04					Data Entry Date	27-Mar-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien			
Contract Main. Area	CMA19					Review Date	17-Mar-2013			
Clear Roadway/Skew	16 /					Dept. Reviewer Name	Chris Black			
AADT/Year						Dept. Review Date	28-Mar-2013			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	13									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.8m, 2 R1 5.5m, 46-1-I 6.6m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.8	In Advance (Y/N)	Yes
Remarks	6.6 on bridge & in advance S/B service road.											
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)	No											
Remarks												
Other Sign Types	Route, Max 60 kph.											

Utilities (Located at)												
Utility Attachments												
Telephone	NW & NE corner.					Gas						
Power	1 wire over S curb. 25m E of E abut.					Municipal						
Others	Along light stds. Light stds E & W & along S ext. Power cable attached to S curb & lower rail.					Problem (Y/N)	Yes					
Remarks	Access panel open at light post. Insuffi. thread on a/b.											

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	On crest curve. Streetlight to West.
Vertical Alignment		7	7	
Roadway Width (m)	16.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Damage to NE rail - 2 broken posts, 2 damaged rail sections.
Guardrail Length (m)	7.600	6	4	NW - 19m, SW - 61m, NE - 38m, SE - 7.6m.
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		4	5	Eroding at NW wingwalls - minor.
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 27-30-37, A-Ident Number: A1243-01)					
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	10.0	0.0	0.0	0.0	
Wearing Surface			6	6	Asphalt is chip sealed. Transverse cracks.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			6	6	A2 A1
Temperature (deg. C)		-12			
(Expansion Type : FINGER PLATES)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
74		W. abut			
110		E. abut			
Deck Drainage			7	7	Retro drains working well at corners.
Drains Clogged (Y/N)		Yes			
Curbs/Median			7	7	0.3 to 0.5mm wide transverse cracks 0.5 to 1m spacing.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			9	9	Insufficient anchor bolt threads for 1 post at light pole. Post grout pads cracking & delaminating.
(Type : GALVANIZED STEEL TUBE BEAM TYPE 1)					
Bridge Rail Posts		5	5		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			7	7	South side only. Narrow map cracking repaired.
Girder/Beam					
Cover Plate		X	X		
Flange		9	9		
Web		9	9		
Stiffeners		9	9		
Splice		9	9		
Weld		9	9		
Diaphragms/Cross Frame			9	9	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 27-30-37, A-Ident Number: A1243-01)				
Paint Condition		9	9	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	Exterior bearing plates rusting, minor. Expansion: A1, A2, P2. Fixed: P1.
Temperature (deg. C)	-12			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Efflorescence @ narrow transverse cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	Map cracking.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		X	4	Minor erosion below NW wingwall.
Piers/Bents				
(Type : PIER-SOLID)				Shallow large grid map cracking in all pier columns.
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				Two shafts each pier.
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	In median for piers only.
Type	Guardrail			
Slope Protection		7	7	Settled 50mm at West abutment.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		8	8	Minor ponding @ East shoulder.
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fill eroded area, seal crack at corner drain and raise catch basin - 0.5m3 pitrun.					
OTHER ACTION	2013	Contact power compnay to relocate cable and secure access panel.					
OTHER ACTION	2013	Replace 2 TT posts, 2 rail sections at NE approach rail.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	74.4/74.4	Est. Repl. Yr	2050	Maint. Req'd. (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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	14-Dec-2014		Previous Inspection Date	13-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							