

Bridge Inspection												
Bridge File Number	00272 -1 Bridge					Form Type	PSR					
Year Built/Year Supstr	1974/1974					Lot No.	1					
Bridge or Town Name	INNISFAIL					Inspector Name	Owen Salava					
Located Over	LOCAL ROAD;RED DEER RIVER, 3, WATERCRS-ST					Inspector Class	BR CLS A					
Located On	54:08 C1 23.348					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	06-Nov-2012					
Legal Land Location	NE SEC 6 TWP 36 RGE 28 W4M					Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:59:10, 52:04:12					Data Entry Date	16-Nov-2012					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien					
Contract Main. Area	CMA19					Review Date	14-Nov-2012					
Clear Roadway/Skew	8.5 /					Dept. Reviewer Name	Andrew Smikles					
AADT/Year	2,430 / 2011 (A)					Dept. Review Date	19-Nov-2012					
Road Classification	RAU-210-110					Follow-Up By						
Detour Length (km)	20											
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 Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)	
Remarks												
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			None required.									
Hazard Marker At Bridge (Y/N)			No									
Remarks			Bridge narrower than roadway, require hazard markers.									
Other Sign Types			'Red Deer River'; EB - Keep Right Except To Pass									
Utilities (Located at)												
Utility Attachments												
Telephone	In South curb.				Gas							
Power	3 wire 50m North of c/l.				Municipal							
Others					Problem (Y/N)	No						
Remarks			Unknown cable strung across A1.									
Approach Road												
			Last	Now	Explanation of Condition							
Horizontal Alignment			5	5	Farm entrance both ends, 100m horizontal curves, no passing. Bridge is in sag curve. Limited sight distance.							
Vertical Alignment			5	5								
Roadway Width (m)			10.300									
Approach Bump			5	6								
Guardrail (Y/N)			Yes		Minor creases in NE guardrail but functioning. NE transition rail not bolted to bridgerail. SE-56.2m; SW-75.2m; NW-56.2m; NE-67.6m. Not thrie beam.							
Guardrail			5	4								
Length (m)			56.000									
Current Standard (Y/N)			No									
Termination Type			Turn Down									
Drainage			7	7								
Approach Road General Rating			5	5								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 4 Spans, Lengths(m): 36.6-36.6-36.6-36.6, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : EXT LATER POST TENS)					
Special Feature		7	7		
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	5	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		6	6	Minor wear in wheelpath at deck jnts. Isolated wear on deck.	
(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		6	6		
Temperature (deg. C)		2			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
97		E. abut - Finger - Exp.			
79		E. pier - Gland - Exp.			
87		Center - Gland - Fixed			
82		W. pier - Gland - Exp.			
73		W. abut - Finger - Exp.			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		4	4	4 shallow delams on top. Light scaling, sealed. 10% of bridge posts have delams on outside of curb. Small delam at S4, south, post 4.	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		7	7	15% of front AB's have insufficient thread, engaged. Delam at S4, south, post 4. Dirty.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		7	4		
(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	3	
Now	0	0	0	3	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 4 Spans, Lengths(m): 36.6-36.6-36.6-36.6, A-Ident Number:)				
Girders		3	3	(Strand corrosion investigation completed in 2002. No corrosion found.) S2G6, S3G6, S4G6 vert. cracks at girder end (photos). S3G6 has staining.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 24)				
Diaphragms/Cross Frame		6	6	
Bearings		6	6	
Temperature (deg. C)	2			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	SW file plaque missing & NE plaque detached.
Piles		N	N	
Paint/Coating		4	4	Peeling/failing; graffiti.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				P2S & P1S ends have delam at top corners but do not go under bearings. P4S stained crack at top corner.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				Graffiti
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Red.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		5	5	Eroding U/S West bank.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	Class III on East bank.
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	
Grade Separation				
Road Alignment		6	6	Gravel access road at A1.
Traffic Safety Features		X	X	
Type	None			
Slope Protection		6	6	
(Type : NATURAL; RIP RAP)				
Bank Stability		6	6	
Drainage		6	6	
Grade Separation General Rating		6	6	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2013	Bolt transition rail to bridgerail (2 bolts).								
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS	2013	Patch delams. seal curbs.								
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING	2013									
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2013	Assess girder end cracks.								
OTHER ACTION	2013	Seal abuts.								
OTHER ACTION	2013	Attach BF plaque at NE, replace at SW.								
OTHER ACTION	2013	Extend anchor bolts at all bridgerail posts as needed (~15%).								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	37.3/37.3	Est. Repl. Yr	2045	Maint. Req. (Y/N)	Yes	Estimated Total	0	
Special Comments for Next Inspection	Monitor girder end cracks.		Department Comments							
Maintenance Reviewed By			Date							
Proposed Long-Term Strategy	CSE 2008 suggests rehab in 2019. Replace 2049. RS									
On 3-Year Program (Y/N)	2003.07.03 Bridge should be replaced by about 2045.									
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	06-Aug-2014	Previous Inspection Date	12-Apr-2011							
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Bolt transition rail to bridgerail (2 bolts).	At rehab	2014		
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS	2013	Patch delams, seal curbs.	At rehab	2014		
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING	2013					
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Assess girder end cracks.	At rehab	2014		
OTHER ACTION	2013	Seal abuts.	At rehab	2014		
OTHER ACTION	2013	Attach BF plaque at NE, replace at SW.	At rehab	2014		
OTHER ACTION	2013	Extend anchor bolts at all bridgerail posts as needed (~15%).	At rehab	2014		
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	37.3/37.3	Est. Repl. Yr	2045	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Monitor girder end cracks.		Department Comments	Rehab programmed for 2014		
Maintenance Reviewed By	Andrew Smikles		Date	17-Dec-2012	Estimated Total	0
Proposed Long-Term Strategy	CSE 2008 suggests rehab in 2019. Replace 2049. RS 2003.07.03 Bridge should be replaced by about 2045.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name			

Next Inspection Date	06-Aug-2014	Previous Inspection Date	12-Apr-2011
Inspection Cycle (Default) (months)	21		
Comment			