

Bridge Inspection										
Bridge File Number	71801 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1984/1984				Lot No.	2				
Bridge or Town Name	LAC LA BICHE				Inspector Name	Eric Carcoux				
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	36:26 C1 53.223				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	12-Apr-2012				
Legal Land Location	NW SEC 31 TWP 64 RGE 13 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:58:18, 54:35:03				Data Entry Date	30-Apr-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer				
Contract Main. Area	CMA08				Review Date	30-Apr-2012				
Clear Roadway/Skew	11.3 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	1,280 / 2011 (A)				Dept. Review Date	04-May-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	41									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		---> On Critical Spans --->Critical Member
Design Loading:	MS23				---> 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)	No								
Remarks	Not required.								
Other Sign Types	Beaver River.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	West r/w.				Gas				
Power	3 wires east r/w.				Municipal				
Others	Fibre optic E r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Farm and field approaches North & South of bridge. Crest curves 500 m South and 300 mm North.				
Vertical Alignment			7	7					
Roadway Width (m)		11.300			Insufficient length. No thrie beam transition. Posts not connected to rail @ NE, SE currently being repaired.-photo Rail to low @ NE.(200mm)				
Approach Bump			5	5					
Guardrail (Y/N)		Yes							
Guardrail			3	4					
Length (m)		22.800							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			4	4	Erosion gully at N. headslope 10m long, 500 wide, 400 deep.-photo				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 10-10-10, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			4	4	ACP @ abutment joints beginning to unravel.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles. Paved over.
Bump (Y/N)		No			
Deck Drainage			4	4	Evidence of leaking abutment joints, stained abutment seat. Erosion gullies at North headslope.
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Spot delam with corrosion staining West curb. Curb girders on north side over piers have small spalls at lower corners over piers, 50 x 100mm. Plow scrapes.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(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)	S2 not accessible, viewed from bank.
Last	10	0	0	0	
Now	10	0	0	0	
Girders			4	4	Rust staining from connector pockets on most girders. Spall on underside of SP2G4. 300mm crack @ 1/5m from P1 point in SP1G5. Looks to be start of spall. Typical diagonal hairline cracking on curb girders, all <.5m.
Last Complete Inspection Date		12-Apr-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)		South abutment has 200mm x 400mm ledge cast in front and below cap.				
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) : 800)						
(Width(mm) : 650)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.20				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100	0	0	0		
Now	100					
Piles				N	N	
Paint/Coating				4	4	
Top of wingwalls peeled, 40%.						
Abutment Stability				7	7	
Scour/Erosion				4	4	
Gullyng on North embankment (10 x 5 x 400mm).						
Piers/Bents						
(Type : PIER-COLUMN)						
Random vertical narrow cracks at piles.						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				4	4	
(Type : CONCRETE)						
(Depth(mm) : 800)						
(Width(mm) : 650)						
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				7	7	
Greatest Height (m)		4.55				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				4	4	
Rust at interface to water / soil, rust stains from cap. Cap coating peeling.						
(Colour Description : BLUE)						
(Colour Code : 15182)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	7	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Gradual bend from U/S.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	Gully on N. headslope.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair erosion gully.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Repair cracks in caps (0.2m3)					
OTHER ACTION	2012	Seal deck joints.					
OTHER ACTION	2012	Revise guardrail height at NE.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	47.9/47.8	Est. Repl. Yr	2035	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	12-Jan-2014		Previous Inspection Date	31-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							