

Bridge Inspection									
Bridge File Number	74546 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1983/1983				Lot No.	2			
Bridge or Town Name	BRIEREVILLE				Inspector Name	Wade Nanninga			
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	866:02 C1 41.000				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Dec-2012			
Legal Land Location	NE SEC 20 TWP 63 RGE 12 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-111:46:14, 54:27:52				Data Entry Date	09-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA08				Review Date	09-Jan-2013			
Clear Roadway/Skew	8.6 /				Dept. Reviewer Name	Paul Catt			
AADT/Year	380 / 2011 (A)				Dept. Review Date	18-Jan-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	50								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS300						----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	OH line 200 m NW.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Long 6% grade to North. Farm access 200m NW & NE.				
Vertical Alignment			6	6					
Roadway Width (m)	9.800				Signs of settlement of both approach slabs. Curb transitions settled. Broken ACP at N abutment.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Creased still functional.				
Guardrail			8	6					
Length (m)	50.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	6					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 3 Spans, Lengths(m): 16-16-16, A-Ident Number:)					
Special Features					
Special Feature		8	8	Girders connected over piers.	
(Type : CHOO CHOO BRG)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	40.0				
Wearing Surface		4	5	Fibre reinforced silica fume overlay. Chipseal scraped off -5%. Delam cracking at connector pockets.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		7	7		
Temperature (deg. C)		-5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : BUFFER ANGLES)					
Gap Size (mm)		Gap Location			
80		North pier			
75		South pier			
Deck Drainage		7	7	No drains.	
Drains Clogged (Y/N)		No			
Curbs/Median		8	N		
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail		8	8		
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		8	8		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		8	8		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					SE spall due to girders being jammed against backwall. Shoe plate cracks.
Now					
Girders		4	4	Corrosion at abutments. Hairline cracks in web transition of some girders. Does not extend into narrow or top flange. Delam cracking at connector pockets extends into top flange.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 21)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 3 Spans, Lengths(m): 16-16-16, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Narrow-Medium cracking in all diaphragms.
Bearings		7	7	
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Salt stains appearing below grout key connecting units particularly along curbs. Delam cracking at connector pockets-50%.
Stains (Percent Area)	5			
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				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Girders moving planks exposing fill on S abut.-photo
Wingwalls		4	4	Signs of rot in planking.
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		4	5	Girders moving planks.
Scour/Erosion		5	6	Fill settled at South cap.
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		8	8	Steel plate stiffeners with angle between all piles.
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		4	4	Paint peeling & corrosion at bottom and below water line.
(Colour Description :)				Brown
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		4	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)		Junction of the Beaver River and the Amisk River 40 m to West. (U/S).		
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)		HWM not visible.		
Drift (Y/N)		No		
Slope Protection (Type : RIP RAP)		5	5	Riprap covered toe of both slopes. The remainder is covered with vegetation.
Guidebank/Spurs		X	X	
Adequacy of Opening		9	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Seal crack at both approaches.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	51.8/51.4	Est. Repl. Yr	2043	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor backwalls for movement and delam cracking. Patch delam cracking at next major rehab.		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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	14-Mar-2016		Previous Inspection Date	28-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							