

Bridge Inspection									
Bridge File Number	09333 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1969/1969				Lot No.	2			
Bridge or Town Name	CHERRILL				Inspector Name	Eric Carcoux			
Located Over	PEMBINA RIVER, 8.11.84, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	764:02 C1 12.154				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	08-Sep-2011			
Legal Land Location	NW SEC 15 TWP 57 RGE 5 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:40:11, 53:55:45				Data Entry Date	05-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA12				Review Date	26-Sep-2011			
Clear Roadway/Skew	8.6 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	390 / 2010 (A)				Dept. Review Date	05-Oct-2011			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	30								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS615						----> 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 due to long length of approach rail.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	2 lines to west r/w. 2 line power E-W approx 30m south of bridge.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Minor dents. North end 34.2m; South end 38.0m. NW TD too high. Too low, 400mm T.O.P. to rail c/l, do not meet standard.				
Vertical Alignment			5	5					
Roadway Width (m)	7.900								
Approach Bump			5	6					
Guardrail (Y/N)	No								
Guardrail			5	5					
Length (m)	38.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			3	4					
Approach Road General Rating			3	5					

Superstructure				
Bridge Component	Last	Now	Explanation of Condition	
(Primary Span : CBT, 5 Spans, Lengths(m): 20-29-29-29-29, A-Ident Number:)				
Special Features				
Special Feature		X		
(Type : EXT LATER POST TENS)				
Special Feature		X		
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last				
Now				
Wearing Surface		7		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)				
(Thickness(mm) : 150)				
Lateral Connection Problem (Y/N)	No			
Deck Top		N		
Deck Rideability		8		
Deck Joints		7		
Temperature (deg. C)	22			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
(Fixed Type :)				
Gap Size (mm)	Gap Location			
70	S abut			
Deck Drainage		7		
Drains Clogged (Y/N)				
Curbs/Median		5	Narrow cracking 1m spacing	
(Curb Type : NEW JERSEY)				
Scaling (Percent Area)				
Bridge Rail		7		
(Type : GALVANIZED STEEL BOX BEAM TYPE 1)				
Bridge Rail Posts		7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)				
Bridge Rail/Posts Coating		7		
(Type : GALVANIZED)				
Sidewalk		X		
Girder Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				
Girders		8		
Cracking (Y/N)	No			
Spalling (Percent Area)				
(Number Of Girders : 6)				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBT, 5 Spans, Lengths(m): 20-29-29-29-29, A-Ident Number:)				
Diaphragms/Cross Frame			X	
Bearings			7	
Temperature (deg. C)	22			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			7	
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			7	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Secondary Span : FCO)				
Special Features				
Special Feature			8	
(Type :)				
Special Feature			7	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last				
Now				
Wearing Surface			7	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)				
(Thickness(mm) : 150)				
Lateral Connection Problem (Y/N)	No			
Deck Top			N	
Deck Rideability			8	
Deck Joints			7	
Temperature (deg. C)	22			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
(Fixed Type :)				
Gap Size (mm)	Gap Location			
65	N abut			
65	S pier			
Deck Drainage			7	
Drains Clogged (Y/N)				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : FCO)					
Curbs/Median			7	Flexural cracking, light scaling.	
(Curb Type : NEW JERSEY)					
Scaling (Percent Area)	10				
Bridge Rail			7	Not fully threaded bolts-5%	
(Type : GALVANIZED STEEL BOX BEAM TYPE 1)					
Bridge Rail Posts			4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7		
(Type : GALVANIZED)					
Sidewalk			X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			4	Typ cracking in bottom 1/2 legs, and chamfer hairline-med N abut.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)					
(Number Of Girders : 6)					
Diaphragms/Cross Frame			3	G2 N abut wide crack with corrosion, 2 end dia. spalls at pier 1.	
Bearings			3	Pads leaning towards abutment. 6 sheared AB at N abut., rest are bent towards abut. Outside AB at pier 2 -sheared.	
Temperature (deg. C)	22				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside			7		
Stains (Percent Area)					
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating			3		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		7	7		
Wingwalls		7	7		
Piles		N	N		
Paint/Coating		5	5		
Abutment Stability		4	5		
Scour/Erosion		4	7		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Piers/Bents				
(Type : PIER-COLUMN)				Drains from South headslope draining significant amount of water @ pier 2.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:5:5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	Narrow random cracking of concrete blocking, in all piers.
Nose Plate		X	X	
Paint/Coating		4	4	Pier 2 extension not painted - photo. red
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	Rock on South bottom headslope, North natural.
(Type : RIP RAP; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	6	

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							
RESET/ PAINT BEARINGS	2011	Replace sheared/bent A/B's.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2011	Fill void under NW approach concrete drain.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Upgrade approach guardrail to meet standard.					
OTHER ACTION	2011	Paint P2 pile extensions & seal caps; paint P3 piles.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	45.9/55.8	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor movements and cracks in girders.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	08-Dec-2014		Previous Inspection Date	09-May-2008			
Inspection Cycle (Default) (months)	39						
Comment							