

Bridge Inspection											
Bridge File Number	76329 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1970/1993				Lot No.	1					
Bridge or Town Name	CYNTHIA				Inspector Name	Wade Nanninga					
Located Over	TRIBUTARY TO PEMBINA RIVER, 8.11.84.61, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	621:02 C1 0.822				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	24-Jan-2011					
Legal Land Location	SW SEC 4 TWP 50 RGE 10 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-115:24:24, 53:16:47				Data Entry Date	28-Feb-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer					
Contract Main. Area	CMA11				Review Date	14-Feb-2011					
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	1,120 / 2009 (A)				Dept. Review Date	02-Mar-2011					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	40										
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 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	Not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	South r/w.				Gas					
Power					Municipal					
Others	Multiple pipelines 15 m west.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	No passing EB because of sag curve.				
Vertical Alignment			6	6					
Roadway Width (m)			8.300		East approach settled 25-40mm creating dip.				
Approach Bump			4	4					
Guardrail (Y/N)			Yes		Insufficient posts next to bridge. Not thrie beam type.				
Guardrail			7	7					
Length (m)			11.400						
Current Standard (Y/N)			No						
Termination Type			Turned Down						
Drainage			N	N	Snow covered, no sign of problem.				
Approach Road General Rating			4	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 1 Spans, Lengths(m): 8.5, 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	10.0	0.0	0.0	0.0	
Wearing Surface			4	4	(Asphalt does not extend to curbs, travel lanes only. 1.6m from curb. 16/Sept/2004) Snow covered. ACP unravelling along c/l - photo. Paved over abutments wide transverse crack - photo.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	
Bump (Y/N)		Yes			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)					
Curbs/Median			N	N	(Hairline cracking @ anchor posts. 16/Sept/2004) Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Dirty.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	N	
(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					
Now					
Girders			8	8	
Last Complete Inspection Date		24-Jan-2011			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 9)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			8	8	

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : N)							
(Extended Backwall Piles Spacing(mm) :)							
(Total Number of Caps/Corbels : 5:5)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)		Wide horizontal checks. 356 D x 350 W caps; 356 W crowned subcap.	
Last							
Now							
Bearing Seats/Caps/Corbels				5	5		
(Type : TREATED TIMBER)							
(Depth(mm) : 356)							
(Width(mm) : 350)							
Backwalls/Breastwalls				7	7		
Greatest Height (m)		3.00					
Wingwalls				5	5	Most piles have vertical checks but A2P7, P8 top is crushing from strut pressure.	
(Total Number of Bearing Piles : 9:9)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last				3			
Now	0	0	0	2			
Piles				3	3		
Paint/Coating				X	X		
Abutment Stability				7	7		
Scour/Erosion				N	N		
Piers/Bents							
(Type :)							
(Total Number of Caps/Corbels :)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Bearing Seats/Caps/Corbels				X	X		
(Type :)							
(Depth(mm) :)							
(Width(mm) :)							
(Total Number of Bearing Piles :)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing				4	6	Steel and timber struts at each pile	
Nose Plate				X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		3	4	GR increased due to strut re-enforcing.
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	N	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2011	Extend ACP to curbs if not done; patch ACP delam @ c/l.					
OTHER ACTION	2011	Patch approach dip @ East end.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/66.7	Sufficiency Rating (Last/Now) (%)	54.6/65.8	Est. Repl. Yr	2027	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor P7/8		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	24-Apr-2014		Previous Inspection Date	16-Dec-2007			
Inspection Cycle (Default) (months)	39						

Comment	
---------	--