

Bridge Inspection										
Bridge File Number	77466 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1972/1972				Lot No.	1				
Bridge or Town Name	COCHRANE				Inspector Name	Garry Roberts				
Located Over	CPR				Inspector Class	BR CLS A				
Located On	22:16 C1 12.770				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	13-Jun-2012				
Legal Land Location	SW SEC 10 TWP 26 RGE 4 W5M				Data Entry By	Lauren Korte				
Longitude, Latitude	-114:29:11, 51:11:52				Data Entry Date	27-Jun-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Ash Morjaria				
Contract Main. Area	CMA28				Review Date	19-Jun-2012				
Clear Roadway/Skew	11 / -19 deg. (LHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	11,590 / 2011 (A)				Dept. Review Date	29-Jun-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	3									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20				----> Primary Span					

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		No								
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not required.									
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)		Yes								
Remarks										
Other Sign Types		Speed 60km, Route info.								

Utilities (Located at)										
Utility Attachments										
Telephone	North abutment & @ NE & NW.				Gas	150m West.				
Power	NW & NE single wire North abutment.				Municipal	Telegraph line under span 1.				
Others	Light standards @ North.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Controlled intersection 30m North.				
Vertical Alignment			5	5					
Roadway Width (m)		11.000							
Approach Bump			5	5					
Guardrail (Y/N)		Yes							
Guardrail			5	5	Not thriebeam.				
Length (m)		99.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			6	6					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 15.2-16.8-16.8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	2	
Now	0.0	0.0	0.0	2.0	
Wearing Surface			3	3	Longitudinal crack @ NBL. Construction joint in Sp.3 corresponds to girder cracking.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			5	4	Bumps at joints.
Deck Joints			3	3	Defective koch joints are now concrete & tar sealed @ NBL - koch joints @ SBL. Cracks in Koch joints @ Pier and spalling in concrete paving lips. Settlement and bump at both abut joints.
Temperature (deg. C)		12			
(Expansion Type :)					
(Fixed Type : THERMOPLASTIC POLYMER)					
Gap Size (mm)		Gap Location			
Deck Drainage			3	3	There are no drains installed. Drainage between girders is causing spalling of caps and girder cracking.
Drains Clogged (Y/N)					
Curbs/Median			4	4	Sp.1 East curb has minor spall at lift hook.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	4 A/B nuts not fully engaged at East rail and one at West rail.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	3	4	
Now	0	0	3	4	
Girders			2	2	Some leakage between girders - stains. Surface spalls @ bottom at Sp.2 -G4,G6 and Sp.3 -G11.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
(Number Of Girders : 39)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 15.2-16.8-16.8, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	12			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Light scaling Sp.1 - G12, G13.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		2	2	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Spalling at East end of both abut caps not affecting bearing yet.
(Type : CONCRETE)				
Backwalls/Breastwalls		X	X	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	Tar coating with heavy staining.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		3	4	Horizontal spall cracks at both piers with corrosion.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		3	3	Peeling - worst @ Pier 2. Patched & coated with cap seal.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		3	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Railroad.
Traffic Safety Features		X	X	
Type				
Slope Protection		8	8	
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		8	8	

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	2012	A1 and A2 joints.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace HPC concrete overlay joints.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2015	Repair abut and pier cap spalls approx 3m2-vecout abuts and piers.					
OTHER ACTION	2012	Investigate and repair corrosion cracks approx 10lin.M and approx 0.5 m2 shallow spalls at 8 girders.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	27.8/33.3	Sufficiency Rating (Last/Now) (%)	45.5/46.6	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	2 Notification sent to AT October 11,2010- and again June 13,2012.		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	Garry Roberts		Previous Assistant's Name	Jason Rusu			
Next Inspection Date	13-Mar-2014		Previous Inspection Date	11-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							