

Bridge Inspection											
Bridge File Number	73636 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1960/1960				Lot No.	2					
Bridge or Town Name	PINCHER CREEK				Inspector Name	Jason Rusu					
Located Over	PINCHER CREEK, 2.12.31, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	6:04 C1 44.399				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	30-Oct-2011					
Legal Land Location	NE SEC 23 TWP 6 RGE 30 W4M				Data Entry By	Erin Roberts					
Longitude, Latitude	-113:56:11, 49:29:30				Data Entry Date	29-Nov-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA26				Review Date	12-Nov-2011					
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	3,470 / 2010 (A)				Dept. Review Date	01-Dec-2011					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> 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 req.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Hazard markers erected at incorrect height above roadway. Slightly High.								
Other Sign Types	Creek ID.								

Utilities (Located at)										
Utility Attachments										
Telephone	Conduit attached to West steel girder.				Gas	40m North.				
Power	4 wire OH East of c/l.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	In controlled speed zone (50 km/hr). Curve 80m North. Local entrances and streets at all corners.					
Vertical Alignment		7	7						
Roadway Width (m)	11.800			Missing 6 splice bolts at SW, 4 at NE Not thriebeam					
Approach Bump	6								
Guardrail (Y/N)	Yes								
Guardrail	4								
Length (m)	15.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			5	5					
Approach Road General Rating		6		6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 10.7-13.7-10.7, A-Ident Number: A0999-75;A1443-01;A1443-02;A1443-03)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		5	5	Numerous map, transverse cracks 2mm wide on some.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		6	6	Galv. buffer angles	
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		3	3	Scaling along curb face with exposed rebar. Damage SE corner.	
(Curb Type : Standard)					
Scaling (Percent Area)		30			
Bridge Rail		5	5	Double layer flexbeam.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		7	7		
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		4	4	Posts painted white; 10% rust.	
(Type : PAINT)					
Sidewalk		X	X		
Girder/Beam					
Cover Plate		X	X	Steel girders cast directly into top of concrete abutments/piers. Steel girders were retrofit under original CIP deck slab. Steel bearing plates between top flange and deck.	
Flange		6	6		
Web		6	6		
Stiffeners		X	X		
Splice		X	X		
Weld		X	X		
Diaphragms/Cross Frame		5	5	Bracing all welded to top / bottom flanges.	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 10.7-13.7-10.7, A-Ident Number: A0999-75;A1443-01;A1443-02;A1443-03)					
Paint Condition		4	4	Rusting (2%) mostly on the bottom all interiors flanges of exterior girders.	
(Colour Description : GREEN)					
(Colour Code : ; 14090)					
Touchup Required (Y/N)	No				
Bearings		N	N	integral to concrete	
Temperature (deg. C)	4				
(Expansion Type :)					
(Fixed Type :)					
Coating Adequate (Y/N)					
Functioning (Y/N)					
Deck Underside		5	5	Leaching through cracks in curb areas. Hairline random cracks. Concrete chipped out over SG girders at the pier end of both approach spans.	
Stains (Percent Area)	5				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		5	5		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		N	N		
(Type : CONCRETE)					
Backwalls/Breastwalls		5	5	Minor spall at SE	
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		X	X		
Abutment Stability		7	7		
Scour/Erosion		7	7		
Piers/Bents					
(Type : PIER-SOLID)				Piers integral to CIP original deck.	
Bearing Seats/Caps		5	5	Short narrow vertical cracks under SG. Medium vertical cracks every approx 3.0m.	
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0)				Scaling & abrasion @ bottom of piers where original substructure was reused.	
Pier Shaft/Piles		6	6		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		X	X		
(Colour Description :)					
(Colour Code :)					
Pier Stability		7	7		
Scour		7	7		
Debris (Y/N)	Yes			Drift at P1	
Substructure General Rating		5	5		

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	4.0			Drift at P1
Drift (Y/N)	Yes			
Slope Protection		4	4	Class II riprap placed in 2003 along SW bank. Filter fabric exposed and rock washed out @ SW
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	patch at SE curb, and 3 other areas 3m2					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2012	20m3 class 2 @ SW					
REMOVE DRIFT ACCUMULATION	2012	Drift at P2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	57.7/57.4	Est. Repl. Yr	2030	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	30-Jul-2013		Previous Inspection Date	19-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							