

Bridge Inspection							
Bridge File Number	76986 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1970/1970			Lot No.	1		
Bridge or Town Name	PINE CREEK			Inspector Name	Colin Roy		
Located Over	ATHABASCA RIVER, 8.11, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	947:12 C1 0.001			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	13-May-2011		
Legal Land Location	NW SEC 35 TWP 59 RGE 18 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-116:35:44, 54:09:07			Data Entry Date	09-Nov-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA03			Review Date	27-Oct-2011		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	Steve Pasquan		
AADT/Year	1,070 / 2010 (A)			Dept. Review Date	06-Dec-2011		
Road Classification	RCU-210-110			Follow-Up By			
Detour Length (km)	250						
Allowable Load (t):	Single	H 40 FLOOR BEAM	Semi	HS 48 FLOOR BEAM	Train	CS3 87 FLOOR BEAM	----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span	

Posting Information								
Required Load Posting (t)			Single		Semi	49	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	"Athabasca River", Narrow Bridge, Log Trucks Turning.							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE		
Telephone	On cross bracings. West r/w.		Gas
Power	5 wire OH West r/w & 3 wire OH. Power inside of West girder.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	6	Horizontal curves 300m each direction, approaches 150m N and S.
Vertical Alignment		7	6	
Roadway Width (m)	10.000			ACP potholes and crack at approach slab.
Approach Bump		5	4	
Guardrail (Y/N)	Yes			East approach only. Should be considered - steep, high. Bridge fills on West approach. At South end, 72.2 North end
Guardrail		7	7	
Length (m)	72.200			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	5	
Approach Road General Rating		7	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 52.4-65.8-52.4, A-Ident Number: A0868-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now						
Wearing Surface			X	X		
(Material Type :)						
(Thickness(mm) :)						
Deck Top			4	4	Wide lateral cracks every 1-2m extending across deck. 1-4 box 300mm x 40mm spall center span 2.	
Deck Rideability			7	7		
Deck Joints			3	3	No joint plumbing. Both abutment 1 curb cover plates broke out of concrete. Previously patched.	
Temperature (deg. C)		7				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
60		North				
26		South				
Deck Drainage			5	3	Deck drains onto substructure.-photo	
Drains Clogged (Y/N)		No				
Curbs/Median			5	3	CJ's no longer sealed, many with adjacent spalls. Curbs completely spalled next to deck joints.-photo	
(Curb Type : LOW PROFILE)						
Scaling (Percent Area)		5				
Bridge Rail			7	4	Large tear not completely welded at the Northeast corner, 170mm long on the underside.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X		
Flange			7	7		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			6	6		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 52.4-65.8-52.4, A-Ident Number: A0868-01)				
Paint Condition		5	4	Topcoat peeling on outside bottom flanges and under DJ's.
(Colour Description : YELLOW)				
(Colour Code : 505-101)				
Touchup Required (Y/N)	No			
Bearings		3	3	South abutment bearings overexpanded 70mm. South pier bearing also overexpanded. NW rocker bearing tipped over. Reinforced steel grillage installed under girder. No web stiffeners at this location. Rusting.
Temperature (deg. C)	7			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		4	4	Leaching through deck cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Both abutment seats covered in mud & gravel from open finger plate joints.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	3	Spall 1.4 x 1.0m abutment 1 backwall 50mm deep.-with exposed rebar-photo
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 1:1)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		7	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Flow attacking north headslope. Natural pitrun exposed at toe.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	Concrete protection and guidebank on North headslope, class 2 rock riprap on South headslope.
(Type : CONCRETE; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	Control Joints					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Both abutment 1 curb cover plates.					
RESET/ PAINT BEARINGS	2012	Reset both abutment rocker bearings & ensure abutment 2 bearing repair was properly engineered.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Clean off abutment seats.					
OTHER ACTION	2012	Install drainage gutters under finger joints.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	58.5/57.2	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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	13-Aug-2014		Previous Inspection Date	21-Sep-2010			
Inspection Cycle (Default) (months)	39						
Comment							