

Bridge Inspection									
Bridge File Number	74229 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1976/1976				Lot No.	2			
Bridge or Town Name	BLUE RIDGE				Inspector Name	Arnold Assenheimer			
Located Over	ATHABASCA RIVER, 8.11, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	658:02 C1 11.098				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	17-Jun-2010			
Legal Land Location	SW SEC 2 TWP 60 RGE 10 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:23:21, 54:09:31				Data Entry Date	14-Jul-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan			
Contract Main. Area	CMA12				Review Date	14-Jul-2010			
Clear Roadway/Skew	9.8 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	430 / 2009 (A)				Dept. Review Date	15-Jul-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	50								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS55						----> 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)	Yes								
Remarks	Not to standard height and location.								
Other Sign Types	Information, Warning.								
Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	1 wire 50m East r/w.				Municipal				
Others					Problem (Y/N)		No		
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Road winds down. Grade at both ends. (Missing 4 type I transition bolts at NE & NW corners - photo. Insufficient post at bridge.) Split post @ SE - photo. 3 split post @ NE (Couple small spalls on NW drain trough. 26/Nov/2003)				
Vertical Alignment			7	7					
Roadway Width (m)	10.000								
Approach Bump			4	6					
Guardrail (Y/N)	Yes								
Guardrail			N	4					
Length (m)	48.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			6	4	Unravelling ACP @ NW-photo				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 5 Spans, Lengths(m): 45.7-56.4-56.4-56.4-45.7, A-Ident Number: A0761-03)					
Special Features					
Special Feature			X	Catwalk unsecured.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			5	5	Random transverse cracks, patches. Unravelling overlay exposing deck (0.5m2).-photo
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Has scaling rust. S. trough has concrete/dirt preventing drainage.-photo
Temperature (deg. C)		15			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
80		N. abut			
75		S. abut			
Deck Drainage			8	8	On good grade. None
Drains Clogged (Y/N)					
Curbs/Median			N	5	Cracked & rust staining on exterior fascia below bridgerail posts.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	7	(10% of posts have minor deterioration of grout pads.) Beginning to affect posts anchorage.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			8	8	
Weld			8	8	
Diaphragms/Cross Frame			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 45.7-56.4-56.4-56.4-45.7, A-Ident Number: A0761-03)				
Paint Condition		5	5	5% paint failure predominantly under abutment joints.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		6	6	Exterior bearings rusting, typical - photo.
Temperature (deg. C)	15			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	4	Random transverse cracks with efflorescence and rust stains. Wide cracking exposing rebar over pier 4 (East side).-photo
Stains (Percent Area)	3			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		4	4	Cracked/spalling at roof slab connection to abut. seat.-photo
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				Wide vertical crack c/l pier 1,2 & 4.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles		7	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	Yes			Caught on piers.
Substructure General Rating		7	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	Concrete paving on north bank, extends upstream = 100 m.
(Type : CONCRETE)				
Guidebank/Spurs		8	8	
Adequacy of Opening		8	8	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2010	Clean abutment plumbing.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	Replace split guardrail posts. (4)					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	63.6/58.3	Est. Repl. Yr	2053	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor rusting at base of bridgerail posts, cracking at WW and deck underside.		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	17-Sep-2013		Previous Inspection Date	01-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							