

Bridge Inspection									
Bridge File Number	09259 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1976/1976				Lot No.	2			
Bridge or Town Name	FORT ASSINIB				Inspector Name	Arnold Assenheimer			
Located Over	FREEMAN RIVER, 8.11.95, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	658:02 C1 57.329				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	20-May-2010			
Legal Land Location	NE SEC 13 TWP 62 RGE 7 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:54:20, 54:21:53				Data Entry Date	13-Jul-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan			
Contract Main. Area	CMA12				Review Date	08-Jul-2010			
Clear Roadway/Skew	8.5 / 20 deg. (RHF)				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:	HS25						----> 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	Required.								
Other Sign Types	Curve, "Freeman River" both ends.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	North r/w.				Gas				
Power	4 lines north r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks	Streams guaging station at SE corner.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve to east. No passing. Grade to the West. No passing. Average 350mm high - substandard.				
Vertical Alignment			7	7					
Roadway Width (m)	8.700				Insufficient posts at first section.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			N	7					
Length (m)	45.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			N	4	ACP unravelling/pot hole @ SE approach near drain trough.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)					
Special Features					
Special Feature		9	9		
(SType : EXT SHEAR STIRRUP)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		4	4	Chipseal damaged by grader exposing concrete deck. Chipseal on concrete.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes		(4 intermittant GCK over full length. 26/Nov/2003) Chipsealed over. Not visible.	
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		4	4	A2 joint leaking on abutment seat. Leakage could be from gland-pushed down.-photo	
Temperature (deg. C)		10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
70	W. abut				
70	Pier				
77	E. abut				
Deck Drainage		7	4	Void at SE curb.-photo A2 leaking joint.	
Drains Clogged (Y/N)					
Curbs/Median		N	4	((Various localized rust staining, one location rusting rebar causing concrete) delamination North curb.	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail		8	8	Exterior has rust staining at rail posts SE approach curb scaling on exterior.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		7	3	10% bolts not fully threaded. 1 AB not sheared off.-photo	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		N	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	9	
Girders		4	3	S1-G1,G5,G6 vertical cracks with rust stains @ West abutment, G1 pier also - photos. S2 - all girders have vertical crack @ ends some with rust stains. Chipped North leg of S1G1. S1G1 have med longitudinal cracks on bottom of girder leg at rust spots.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 12)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	25% diaphragms have bottom delam cracks.
Bearings		4	4	A2, NE bearing corroding. Caused by leaky joint.
Temperature (deg. C)	10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Rust staining & salt contamination around almost all weep tubes. Typical VF chamfer cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	6	
Abutment Stability		6	6	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Light scaling of shaft at waterline. Rust stains along top 300 mm of pier on both sides with two shallow chips on top edge. Vertical (wide) cracking.				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		5	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Caught on pier.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		5	4	NE bank eroding-photo
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	4	Fieldstone; very large stones in channel. (Guide bank D/S). Lower half of headslope with concrete slope protection and armoured with Class II rock.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	5	Deck to stream bed 7.95 metre. Deck to stream bed 7.95 metre. Deck to stream bed 7.95 metre. Deck to stream bed 7.95 metre. Drift catching at pier.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2010	Flood joints, check for leaks & repair as necessary.					
RESET/ PAINT BEARINGS	2010	Repair sheared SE A/B.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	Replace broken approach rail post SE, if not done.					
OTHER ACTION	2010	Fill pot hole with cold mix @ SE corner.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	51.6/47.7	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor GKC. Monitor cracking @ ends of girders. Monitor scour @ NE bank.		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	20-Aug-2013		Previous Inspection Date	02-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							