

Bridge Inspection										
Bridge File Number	13838 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1975/1975				Lot No.	2				
Bridge or Town Name	DRIFTPILE				Inspector Name	Brian Pientsch				
Located Over	DRIFTPILE RIVER, 8.11.80.48, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	2:50 C1 24.732				Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	12-Feb-2013				
Legal Land Location	SW SEC 28 TWP 73 RGE 12 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:47:44, 55:20:47				Data Entry Date	03-Apr-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA06				Review Date	03-Apr-2013				
Clear Roadway/Skew	11 /				Dept. Reviewer Name					
AADT/Year	1,800 / 2012 (A)				Dept. Review Date					
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	300									
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	Not required.								
Other Sign Types	Driftpipe River								

Utilities (Located at)										
Utility Attachments										
Telephone	South 35m.				Gas					
Power	North r/w - 6 wire.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curve on both sides with village approaches. No passing. 80 KPH ZONE				
Vertical Alignment			7	7					
Roadway Width (m)	10.500								
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Missing a GR to BR transition bolt SE. Insufficient Length, not trie beam. Missing 3 bolts SW approach rail.				
Guardrail			4	N					
Length (m)	41.800				Not Fleat end treatment Snow covered SE, SW and NE. Approach rail instilled too low NW.				
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : VF, 3 Spans, Lengths(m): 12.2-36.6-12.2, A-Ident Number:)						
Special Features						
Special Feature		4	4	Missing 2 nuts on S1G3 and S2G8.-Repaired Several connections with only single nuts or insufficient thread.		
(Type : SUPERBOLT CONN)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.	
Last	10	0	0	0		
Now	15.0					
Wearing Surface		6	6	Random cracking in ACP		
(Material Type : ACP)						
(Thickness(mm) : 90)						
Lateral Connection Problem (Y/N)		No				
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		3	3	Expansion joint is at A1. P2+A2 glands are torn-photo		
Temperature (deg. C)		13				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
80	Abut #1					
71	Pier 1					
70	Pier 2					
75	Abut #2					
Deck Drainage		N	3	No drains on approach spans. Birdbaths along curb face on approach spans.Worst at SW curb, extends to shoulder line (all at mid-span & NE corner.-photo		
Drains Clogged (Y/N)		No				
Curbs/Median		7	N	Snow covered		
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail		7	7	Insufficient thread extension beyond nut on some base plate anchors (TYP)		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		4	N	Snow covered		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		7	N			
(Type : GALVANIZED)						
Sidewalk		X	X			
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Girders		4	4	narrow cracks at top campher line above bearing tapering into deck. TYP VF cracks. S1G1 staining at repair on E end of girder.-photo Delam S3G3 0.6m dia.		
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 21)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 3 Spans, Lengths(m): 12.2-36.6-12.2, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	Vertical crack in W diaphragm near pier or abut ends.
Bearings		7	7	
Temperature (deg. C)	0			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	4	Stain from around deck water proofing drains.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Delam crack at N. end p2.
Bearing Seats/Caps		4	4	Wide cracks at ends of per caps epoxy filled.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : GREEN)				
(Colour Code : 14090)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Silt deposit on E. headslope, drift on W headslope.
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	Banks have slumped on both sides.
HWM (m below Top of Curb)				(HWY overtopped in previous floods.-2006/04/04)
Drift (Y/N)	Yes			
Slope Protection (Type :)		5	5	Outside curve upstream has rip-rap.
Guidebank/Spurs		X	X	
Adequacy of Opening		4	4	
(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	2013	Install missing transition bolt SE.-Carried over 11-May-2011					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace torn/cracked glands.					
OTHER ACTION	2013	Install drains on approach spans.					
OTHER ACTION	2013	Raise height on approach rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	49.0/49.0	Est. Repl. Yr	2049	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	Russel Vanderschaaf			
Next Inspection Date	12-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							