

Bridge Inspection										
Bridge File Number	73920 W-1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1976/1976				Lot No.	2				
Bridge or Town Name	FOX CK				Inspector Name	Brian Pientsch				
Located Over	TWO CREEK, 8.11.114, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	43:12 L1 33.904				Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	28-Nov-2012				
Legal Land Location	SE SEC 28 TWP 61 RGE 16 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-116:19:46, 54:18:09				Data Entry Date	02-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA03				Review Date	19-Dec-2012				
Clear Roadway/Skew	13.4 / 35 deg. (RHF)				Dept. Reviewer Name	David Morrison				
AADT/Year	6,290 / 2011 (A)				Dept. Review Date	19-Mar-2013				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	1									
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)	Yes								
Remarks	SE too high (1.15m from curb).-photo								
Other Sign Types	Two Creeks.								

Utilities (Located at)										
Utility Attachments										
Telephone	North r/w				Gas					
Power	North side of road - 5 line				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Intersection to the E.				
Vertical Alignment			7	7					
Roadway Width (m)	13.000				Insufficient posts next to bridge.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			N	5					
Length (m)	99.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RD, 3 Spans, Lengths(m): 19.8-21.3-19.5, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.	
Last	30	0	0	0		
Now	40.0					
Wearing Surface			4	4	Medium width cracks over both piers. Narrow longitudinal cracks along girder edges in numerous locations on deck.-snow covered	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7		
Temperature (deg. C)		-20				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
65		E abut				
80		W ABUT				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			N	3	Exterior fascia stains & deterioration.-07-May-2009 Wide longitudinal cracks and stains along face of both curbs. 300x50 spall along face.-07-May-2009 Snow covered. Spalls in 6 post bases/anchorage zones with cracking & rust stains.-photo	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			7	7	Rusting at baseplates and along top tuberail.-07-May-2009 Snow covered.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		N	3			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		N	N			
(Type : GALVANIZED)						
Sidewalk			X	X		

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 19.8-21.3-19.5, A-Ident Number:)						
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	S1G6 500mm wide long crack at E end.-corrosion stains-photo 9 girders with rust spots from tie wires. S3G1 vertical crack near AZ. S3G1 1m wide crack with rust near P2. Rust stains at all drift pin locations.	
Last	0	0	0	1		
Now				2		
Girders				3	3	S2G7 vertical crack 75mm from end & longitudinal crack 75mm from bottom. 100mm -50mm spall N side of S3G6 near P2. S2G1 minor spall at P1. 300mm long. crack West end of S3G12 with rust staining.-photo
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
(Number Of Girders : 36)						
Diaphragms/Cross Frame				X	X	
Bearings				8	8	
Temperature (deg. C)		-20				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)						
(Fixed Type :)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside				5	5	
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				7	7	
(Type : CONCRETE)						
Backwalls/Breastwalls				X	X	
Wingwalls				N	N	300 x 100 mm spall SW wing. 07-May-2009 Snow covered.
Piles				N	N	
Paint/Coating				5	5	
Abutment Stability				8	8	
Scour/Erosion				7	7	
Piers/Bents						
(Type : PIER-COLUMN)						Delam. cracking at both ends of both caps (photo).
Bearing Seats/Caps				4	4	
(Type : CONCRETE)						
(Total Number of Bearing Piles : 7:7)						
Pier Shaft/Piles				7	7	
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		7	7	pigmented sealer -grey
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		7	4	
HWM (m below Top of Curb)				
Drift (Y/N)	No			
Slope Protection		7	7	Abutment from former structure is not part of new structure.
(Type :)				
Guidebank/Spurs		X	X	
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							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2013						
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	Lower SE hazard marker.					
OTHER ACTION	2013	Patch girder cracks to keep water out.					
OTHER ACTION	2013	Repair spalled post bases/anchorage zones.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	55.3/54.9	Est. Repl. Yr	2036	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor pier cap ends. Monitor conditions of girders.		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	28-Aug-2014		Previous Inspection Date	07-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							