

Bridge Inspection									
Bridge File Number	70022 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1973/1973				Lot No.	2			
Bridge or Town Name	RYCROFT				Inspector Name	Brian Pientsch			
Located Over	SPIRIT RIVER, 8.10.72.6, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	49:04 C1 34.437				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	25-Jul-2011			
Legal Land Location	NW SEC 16 TWP 78 RGE 5 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-118:43:26, 55:45:38				Data Entry Date	05-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA05				Review Date	29-Sep-2011			
Clear Roadway/Skew	13.2 /				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	2,390 / 2010 (A)				Dept. Review Date	18-Nov-2011			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	58								
Allowable Load (t):	Single	CS1 45 GIRDER	Semi	CS2 55 GIRDER	Train	CS3 71 GIRDER	---> On Critical Spans --->Critical Member		
Design Loading:	HS20						---> 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	All too high and not attached to bridgerail. Missing SE corner-photo.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	LRA intersection 20 m NW.				
Vertical Alignment			9	9					
Roadway Width (m)	13.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				1 post broken in SE corner. -photo				
Guardrail			4	3	APPROACH TO BRIDGERAIL CONNECTION MISSING 1 BOLT @ SE CORNER (PHOTO)				
Length (m)	22.800				4 splice bolt missing NW approach rail.-photo				
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			5	3	Void under approach slab @ SE corne, approx 1.0m under pad.-photo				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		5	4	Approx. 1m2 of polymer overlay worn off at E and W ends and @ pier, exposing concrete deck.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		3	4	North plate in WBL is loose and rattles. The abut joints have been sealed by Koch oil. E & W abutment joints leaking - abutment seats and diaphragms wet from leadkage.	
Temperature (deg. C)	20				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)	Gap Location				
60	Pier				
Deck Drainage		4	4	Water ponds @ NW corner.-28-Oct-2009 Minor rust staining and efflorescence around all drains.	
Drains Clogged (Y/N)	No				
Curbs/Median		3	3	SE and SW approach curbs severely scaled. -photo Grader damage @ NE corner.	
(Curb Type : Standard)					
Scaling (Percent Area)	15				
Bridge Rail		4	3	Missing 14 (all) splice bolts in north rail - photo, 7 in south rail. 15% of grout pads spalling.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	3	Insufficient thread on 17 bolts.	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number:)				
Girders		3	4	2 types. FC have wide longitudinal cracks in both legs S1 G1, 2, S2 G1-G3, near pier 1. In one leg S1 G3,5,6, S2 G4,5, near pier 1. S2 G6 300mm x 200mm spall on inside of one leg with med long cracks.-photo Wide crack from spall @ East end of S1G1.-photo Typical FC cracks 2G1 at East abut.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		3	3	S2 G3 & G4 bottom of diaphragm has spalled.- photo
Bearings		5	4	The diaphragms are cracked where the dywidags were stressed. Pier inspected from banks. 3 bearings appear to have bent anchor bolts.
Temperature (deg. C)	20			
(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	4	Minor rust staining and efflou. around all drains.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-COLUMN)				South end at pier caps is severely spalling. photo
Bearing Seats/Caps		5	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 9)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		4	4	Pier cap coating is 20% peeled.
(Colour Description :)				
(Colour Code :)				

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	Yes			14 old piles in river.
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	5.6			Caught in rail trussel u/s.
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
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	2012	install missing splice bolts.					
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	2012	Install missing hazard marker and install others to correct height.					
OTHER ACTION	2012	Repair void under approach slab.					
OTHER ACTION	2012	Repair one broken GR post - Install missing B.R. to G.R post.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	52.6/53.4	Est. Repl. Yr	2027	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spalls on S2G6, S2G1 & SG 3& 4 diaphragm. Monitor girder cracks. Monitor overlay deterioration.		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	Arnold Assenheimer		Previous Assistant's Name	Shane Hall			
Next Inspection Date	25-Apr-2013		Previous Inspection Date	28-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							