

Bridge Inspection							
Bridge File Number	75016 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1958/1958			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	2:68 C1 29.444			Assistant Name	Russel Vanderschaaf		
Water Body Cl./Year				Assistant Class	BR CLS B		
Navigabil. Cl./Year				Inspection Date	07-Dec-2011		
Legal Land Location	SW SEC 34 TWP 78 RGE 5 W6M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-118:41:10, 55:47:48			Data Entry Date	09-Jan-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA05			Review Date	20-Dec-2011		
Clear Roadway/Skew	12.8 /			Dept. Reviewer Name	David Morrison		
AADT/Year	2,710 / 2011 (A)			Dept. Review Date	05-Apr-2012		
Road Classification	RAU-213.4-120			Follow-Up By			
Detour Length (km)	300						
Allowable Load (t):	Single	CS1 57 GIRDER	Semi	CS2 63 GIRDER	Train	CS3 76 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	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								
Other Sign Types								

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	Single wire o/h W r/w		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrance 50m south.
Vertical Alignment		7	7	
Roadway Width (m)	13.000			200 x 50 x 100 x deep hole at North East approach slab leaking onto abut. 1.9mx0.33mx0.4mD South approach SBL.
Approach Bump		4	3	ACP raveling at N joint.
Guardrail (Y/N)	Yes			
Guardrail		3	3	3 broken posts and 2 bent sections SW corner.-photo
Length (m)	26.000			Not thrie beam.
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		4	3	200x50x100 deep hole at NE approach slab leaking onto pier.
Approach Road General Rating		7	7	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PO (FM) , 2 Spans, Lengths(m): 33.8-33.8, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Gravel/snow/ice covered.	
Last						
Now	10.0	0.0	0.0	0.0		
Wearing Surface				4	4	2m2 epoxy overlay missing or debonded at pier joint with 0.7m. 0.5m2 at S abut joint.
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top				N	N	
Deck Rideability				6	6	Typical camber bumps.
Deck Joints				3	3	Concrete deterioration, deck joint anchorages, NBL, pier joint. - photo
Temperature (deg. C)		-10				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC); ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
60		S. abut				
76		Pier				
55		N. abut				
Deck Drainage				4	4	Deck drain at SE causing 1mx1m scour hole on headslope.
Drains Clogged (Y/N)		No				
Curbs/Median				5	5	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail				7	7	Insufficient threads at North East corner.
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts				4	4	
(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)	S2,G2 has cracking at the top flange of the girder end near the pier. (photo). S1&S2, G1&G7 all have wide longitudinal cracking at underside of girder legs ar girder end near A1.(Photo) S2G5 cracking in top flange w/staining near AZ	
Last	0	0	0	2		
Now				2		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO (FM) , 2 Spans, Lengths(m): 33.8-33.8 , A-Ident Number:)				
Girders		3	3	typical chamfer cracks on curb girder.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			10 'PO' girders w/4pc girders at curbs.
(Number Of Girders : 14)				
Diaphragms/Cross Frame		5	4	S2, G1 end diaphragm bottom is debonded with rebar exposed & efflorescence.
Bearings		7	7	
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	4	Rust staining between G4 and G5 S2+S2 at patch locations.
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		5	4	Wide crack between G3 and G4 S2.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		4	4	0.4x0.76z0.05m D Spall NE wing.
Piles		N	N	
Paint/Coating		4	5	
Abutment Stability		5	7	
Scour/Erosion		4	4	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		4	4	Delam crack under G4, South side.
(Type : CONCRETE)				
Heavy staining on E. half, N & S side where water leaking through.				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		4	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Thorosheen peeling on 20%.STAINING
(Colour Description :)				
(Colour Code :)				

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Vertical banks east. (Energy dissipating weirs u/s and d/s of bridge working well)
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		4	4	SW corner 10m from bridge. 2mWx10mLx1mD slough.
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	Yes			
Slope Protection		5	4	South headslope settled 300mm below abutment cup.
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012						
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012						
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Seal hole at North East approach slab.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	49.7/49.7	Est. Repl. Yr	2024	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				
Next Inspection Date	07-Sep-2013		Previous Inspection Date	15-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							