						Bridg	e In	spection						
Bridge File Num	ber	77177 -1	Bridge					Form Type	)		PSR			
Year Built/Year		1971/19	71					Lot No.			2			
Supstr		50000						Inspector	Name		Owen Salav	/a		
Bridge or Town	Name			~				Inspector	Class		BR CLS A			
Located Over		WATER	SASKAT CRS-ST	JHEWA	N RIVER	, 6,		Assistant Name						
Located On		11:10 C	3.881					Assistant (	Class					
Water Body Cl./	Year						l l	Inspection			02-Feb-201			
Navigabil. Cl./Ye	ear							Data Entry			Marcia Cha			
Legal Land Loca	ation	SW SEC	4 TWP 4	0 RGE	7 W5M			Data Entry			02-Mar-201			
Longitude, Latitu	ıde	-114:57:	15, 52:24	36				Reviewer			John O'Brie			
Road Authority		Alberta 7	ransport	ation (Al	T)		-	Review Da			23-Feb-201			
Contract Main. A	Area	CMA18						Dept. Rev						
Clear Roadway/	Skew	Follow Up By												
AADT/Year	Year 3,140 / 2010 (A) Follow-Up By													
Road Classificat	Road Classification RAU-213.4-120													
Detour Length (I		10												
Allowable Load	(t): Sin		55 DER		Semi	CS2 64 GIRDE			Train		S3 75 RDER		> On Criti	cal Spans
Design Loading:		HS2				OIIVDL	.1\			01	RDER		> Primary	
		1110				Postin	g In	formation					, i i i i i i i i i i i i i i i i i i i	- p
Required Load F	Posting	(t)		Single				Semi				Truc	k Train	
Posted Loading (t) Single						Semi				Truck Train				
Posted:	Lane	EB At Junction (Y/N) No				In Advance (Y/N) No A		At B	At Bridge (Y/N) No					
Posted:				) No		In Adv	ance (	(Y/N)			ridge (Y/N)	No		
Remarks	Not re	quired.												
Hazard Marker	At Brid	ge (Y/N)	No											
Remarks Required.														
Other Sign Types Information signing.			ing.											
							s (L	ocated at)						
Utility Attachme			NE UTILI	ΓΙΕS-PH	IONE LIN	<u>IE</u>								
Telephone	In sou	th curb.						Gas						
Power								Municipal						
Others								Problem (	Y/N)	No				
Remarks						- A		oh Beed						
					La			ch Road Explanation	on of (	Condi	ition			
Horizontal Align	ment							Explanation of Condition  Curve to east, slightly limited sight distance. Crest to the West,					ne West.	
Vertical Alignme							6	intersectio	n 150r	n We	st. West end	has sli	ght bump.	,
Roadway Width			14.300					Pothole fo	rming	at A2	& A1 paving	lips in	EBL.	
Approach Bump						6	6		.5		19			
Guardrail (Y/N)			Yes											
Guardrail						6	6							
Length (m)			29.000						0.5 -					
Current Stand	ard (Y/	N)	No					SW corne	r 36.6n	n gua	rdrail length.	Insuffi	cient length 8	posts.
Termination T	уре		Turn Do	wn										
Drainage						7	7							
Annroach Pos	l Gana	ral Datin	n			5	5							
Approach Road	Gene	ı aı Katın	y			J	J							

					Cupara	aturatura.
Bridge Com	nonont					Explanation of Condition
	•	ne Longthe	(m): 22 5-22 5-			, A-Ident Number: )
		iis, Lenguis	(111). 33.3-33.3-	33.3-33	33.3	, A-ident Number. )
Special Feat				7	7	Viewed from banks, appears a k
-		et tene		/	/	Viewed from banks, appears o.k.
	T LATER POS	SI IENS)			V	-
Special Feat	ture				X	-
(Type:)						
Wearing Sur	face/Deck Top			0 (0()		
1 1	N (%)	1 (%)	2 (%)	3 (%)		_
Last	40.0	0.0	0.0		2.0	-
Now	10.0	0.0	0.0		0.0	
Wearing Sur				6	6	Localized delam around pier joints and in travel lanes - photo.
COAT)		ETE - CONV	ENTIONAL CH	IIP SEA	\L 	_
(Thickness	s(mm) : <b>50</b> )					_
Lateral Conn (Y/N)	nection Probler	m No				
Deck Top				N	N	
Deck Rideability			6	6	Slight bump over pier joints.	
Deck Joints			3	3	Minor gouges in joints from plow, no problem.	
Temperature (deg. C) -3					Girder ends spalling @ deck joint drains, typical at all piers - photo. (P3 gland failed over 3m length - photo. 01Apr2010).	
(Expansion Type : FINGER PLATES;GLAND (WABOTRANSFLEX, ETC))  (Fixed Type : )				O-MAU	ER,	N cover plate is not flush @ P4. S cover plate at P2 not flush. A2 jnt jammed with gravel. Pier glands jammed with gravel.
Gap Size (mm) Gap Location						
108			st abutment - A	1		_
60		Pier				_
65		Pier	2			_
72 Pier 3					_	
55 Pier 4						
108		Eas	t abutment - A2	!		
Deck Draina	ge			4	5	Drains leaking at all piers onto cap ends - photo.
Drains Clo	gged (Y/N)	No				S5G8 has spall at scupper at top of girder leg. Icing at SW & NW corner of abut seat.
Curbs/Media	an			3	4	Delam cracking in various locations in N curb.
(Curb Type : Standard)						Corrosion stains along interior face. P4N cover plate not flush - photo.
Scaling (Percent Area) 5						TI THE GOVEL PLATE THAT HUSTIT - PHOLO.
Bridge Rail				7	7	
	LVANIZED S	TEEL BRIDG	E TUBE)			
(Type : GALVANIZED STEEL BRIDGE TUBE) Bridge Rail Posts				3	7	
(Type : GALVANIZED POST STEEL;GALVANIZED I						
STEEL)  Bridge Rail/Posts Coating				5	5	
	ALVANIZED)					
Sidewalk	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			X	Х	
Girder Detail	Ratings					
Last	N (count)	1 (count)	2 (count)	3 (cou	unt)	_
Now	16 24	0	0		0	
14044	24	l U	U		U	<u> </u>

			Supers	tructure			
Bridge Component				Explanation of Condition			
(Primary Span : FC, 5 Spans, Le	engths(m): 33.5-33.5-3	3.5-33	.5-33.5	, A-Ident Number: )			
Girders		5	5	S1G1 has vertical cracks in E end of girder.			
Cracking (Y/N)	Yes			C/L E abut, near vertical at 2/3 L. Typical chamfer line cracking on all girders.			
Spalling (Percent Area) 0 (Number Of Girders : <b>40</b> )				Longit. cracking in mid-point of girder legs.			
(Number Of Girders : 40)				Non typical crack on girder leg near S1Ğ2 W abut, S5G8 E abut, measured & dated. No change. S1G1 U/S cracking extends 390mm into deck.			
Diaphragms/Cross Frame		4	4	Vertical narrow cracks in 85% of diaphragms. (S4G1 diaphragm 3 has delam cracking with corrosion. 01Apr2010).			
Bearings		5	5	Bearing bolts at pier curb units are all leaning inwards perhaps due			
Temperature (deg. C)	-3			to stressing laterally.			
(Expansion Type : SLIDING PI	_ATE)						
(Fixed Type : REINFORCED N TEFLON AND STAINLESS ST	EOPRENE BEARING (EEL)	WITH					
Coating Adequate (Y/N)	Yes						
Functioning (Y/N)	Yes			Some rusting of bearing plate, typical on all.			
Deck Underside		7	7	Non typical crack on girder leg near S1G2 W abut, S5G8 E abut,			
Stains (Percent Area)	0			measured & dated. No change. S1G1 U/S cracking extends 390mm into deck.			
Span Alignment Problems				3101 0/3 Clacking extends 330mm into deck.			
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating		4	4				
		-	ı.				
				ructure			
Bridge Component		Last	Now	Explanation of Condition			
Abutments  Regring Secto/Cons		7	7				
Bearing Seats/Caps (Type : CONCRETE)		1	7				
Backwalls/Breastwalls		7	7				
Dackwaiis/Dreastwaiis			_ ′				
Wingwalls		7	7				
Piles		N	N				
Paint/Coating		5	5				
Abutment Stability		8	8				
Scour/Erosion		5	5				
Piers/Bents							
(Type : PIER-SOLID)				(P4 N end small spall at underside near bearing.			
Bearing Seats/Caps		4	4	Vertical crack under some girder bearings - photo. Minor spall with exposed rebar at underside of P5 cap. 01Apr2010).			
(Type : <b>CONCRETE</b> )				Viewed from banks.			
(Total Number of Bearing Piles :	0:0:0:0)						
Pier Shaft/Piles		7	7				
Bracing/Struts/Sheathing		Х	X				
Nose Plate		7	7	Surface corrosion.			
Paint/Coating		Х	Х				
(Colour Description : )							
(Colour Code : )							
Pier Stability		7	7				
Scour		6	N	Ice covered.			

			ructure					
Bridge Component		Last	Now	Explanation of Condition				
Debris (Y/N) Yes								
Substructure General Rating		4	4					
		5	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : S)				River currently against W bank causing recent erosion, however too				
(D/S Direction : N)				of slope is bedrock (shale) erosion rate is slow. (Main flow through S2 - Feb 2012).				
Alignment		6	6	(a u				
Bank Stability		6	6					
HWM (m below Top of Curb)				HWM not visible.				
Drift (Y/N)	No		_					
Slope Protection		5	5	No slope protection on West bank near vertical bank. Abutment 2				
(Type: NATURAL; NATURA	L)			concrete slope protection part of guide bank armouring.				
Guidebank/Spurs		8	8					
Adequacy of Opening		8	8					
(Fish Compensation Measure 1	: NONE)							
(Fish Compensation Measure 2	: NONE)							
Channel General Rating		5	5					

Alberta Transportation

		Maintenance Recommendations	ations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	nents	Target Year	Est. Cost	Cat#
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Patch delams in N curb.					
PATCH DECK	2012	Patch delam chipseal.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace P3 gland, if not yet done.					
RESET/ PAINT BEARINGS	2020	Straighten/reset bent pier bearing A/B at next major rehab.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	_						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Remount P4 North cover plate flush; P2 S plate.					
OTHER ACTION	2012	Patch potholes along paving lips.					
OTHER ACTION	2012	Patch P4 spall @ S end.					
OTHER ACTION	2012	Patch exposed rebar in dia S4G1, if not yet done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now)	1) 44.4/44.4	Sufficiency Rating (Last/Now) (%)	49.3/49.2	Est. Repl. Yr 2040	Maint. Reqd. (Y/N)		Yes
Special Measure girder cracks & pier cracking Comments for Next Inspection	s & pier crack	ing.	Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy 20	006.05.09 rek	2006.05.09 rehab 2030, replacement 2060.					
On 3-Year Program (Y/N)							

Proposed Action			
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	02-Nov-2013	Previous Inspection Date	01-Apr-2010
Inspection Cycle (Default) (months) 21	21		
Comment			

		Maintenance Recommend	lations					
Inspector Recommendations	Year	Inspector Comments	Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
GALVANIZE/PAINT BRIDGE RAIL								
SEAL CURBS	2012	Patch delams in N curb.	Programmed			2012		
PATCH DECK	2012	Patch delam chipseal.	Programmed			2012		
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2012	Replace P3 gland, if not yet done.	Programmed			2012		
RESET/ PAINT BEARINGS	2020	Straighten/reset bent pier bearing A/B at next major rehab.	Defer to next reha	ab.				
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2012	Remount P4 North cover plate flush; P2 S plate.	Programmed			2012		
OTHER ACTION	2012	Patch potholes along paving lips.	Operations			2012		
OTHER ACTION	2012	Patch P4 spall @ S end.	Programmed			2012		
OTHER ACTION	2012	Patch exposed rebar in dia S4G1, if not yet done.	Programmed			2012		
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	44.4/4	Sufficiency Rating (Last/Now) (%)	49.3/49.2	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	Yes

Special Measure gi Comments for Next Inspection	der cracks & pier cracking.	Department Comments	DA	
Maintenance Reviewed By	Darron Ahlstedt	Date	05-Nov-2012	Estimated Total 0
Proposed Long-Term Strateg	2006.05.09 rehab 2030, replace	ment 2060.		
On 3-Year Program (Y/N)				
Proposed Action				
Previous Inspector's Name	Owen Salava	Previous Assistant's N	ame	
Next Inspection Date	02-Nov-2013	Previous Inspection Da	ate 01-Apr-2010	
Inspection Cycle (Default) (me	onths) 21			
Comment				