						В	ridge Ir	nspecti	on						
Bridge File Num	ber	71291 -1 Bridge					Form Type				SG				
Year Built/Year 1972/1972								Lot No.			2				
Supstr								Inspector Name			Wade Nanninga				
Bridge or Town Name PAKAN BRIDGE								Inspector Class			BR CLS A				
Located Over NORTH SASKATCHEWAN RIVE WATERCRS-ST					N RIVE	R, 6,		Assistant Name							
Located On			C1 11.440					Assistant Class							
Water Body Cl./	Year							Inspection Date			17-Dec-2012				
Navigabil. Cl./Ye	ar							Data Entry By			Theresa Lacusta				
Legal Land Loca		NW SE	C 4 TWP 5	58 RGE 1	7 W4M	1		Data Entry Date			15-Jan-2013				
Longitude, Latitude -112:28:35, 53:59:24								Reviewer Name			Eric Carcoux				
Road Authority Alberta Transportation (AIT)					-)			Review Date			10-Jan-201	3			
Contract Main. A	rea	CMA07						Dept. Reviewer Name			Paul Catt				
Clear Roadway/	Skew	8.5 /						· · ·	Review D	ate	18-Jan-201	3			
AADT/Year		650 / 20	11 (A)					Follow	-Up By						
Road Classificat	ion	RCU-20	9-110												
Detour Length (I	(m)	42													
Allowable Load	t): Sin				Semi		5 71 RDER		Train		3 72		> On Critical Spans >Critical Member		
Design Loading:			GIRDER HS20				RDER						> Primary Span		
Soligh Loading.			20			Po	sting Ir	orma	tion					Opan	
Required Load Posting (t) Single							ening II		emi			Truc	k Train		
Posted Loading		(-)		Single					Semi			_	k Train		
Posted:	Lane	NB		At Junction (Y		N)	No		In Advance (Y/N)		No		ridge (Y/N)	No	
Posted:	Lane	SB		At Junct	· · ·		No		Advance	· /	No		ridge (Y/N)	No	
Remarks					( ) )	-/				(1,11)					
	At Bride	ne (Y/N)	Yes												
Hazard Marker At Bridge (Y/N) Yes   Remarks 3 hazard markers brod					s broke	n or	cut off :	at nost							
NW low but there.						54000	- poor.								
Other Sign Types North Sask. River sign				er signs											
							lities (L	ocated	l at)						
Utility Attachmer			NE UTILI	-	-										
Telephone			150 m nor		d 14m V	Vest	of c/l.	Gas							
Power			00 M N. of	•											
Others			N. end of b	-					em (Y/N)	No					
Remarks	Surve	y Canad	a BM's 94	A412 and	1 @ NE										
							Approa	1							
					L	.ast	Now	Explanation of Condition							
Horizontal Aligni						8	8	Bridge is part of long sag curve over river.							
Vertical Alignment						6	6								
		Roadway Width (m) 8 000					1								
Roadway Width	(m)		8.000			-		1							
			8.000			7	7								
Approach Bump						7	7	Requir	res one e	xtra no	st near brida	e at NI	E and NW co	rners.	
Roadway Width Approach Bump Guardrail (Y/N) Guardrail			8.000 Yes			7		Requi	res one e	xtra po	st near bridg	e at NI	E and NW co	rners.	
Approach Bump Guardrail (Y/N) Guardrail			Yes	)			7	Requi	res one e	xtra po	st near bridg	e at NI	E and NW co	rners.	
Approach Bump Guardrail (Y/N) Guardrail Length (m)	· ·	N)		)				Requi	res one e	xtra pos	st near bridg	e at NI	E and NW co	rners.	
Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Standa	ard (Y/	N)	Yes 175.000 No					Requi	res one e	xtra po	st near bridg	e at NI	E and NW co	rners.	
Approach Bump Guardrail (Y/N) Guardrail Length (m)	ard (Y/	N)	Yes					Requi	res one e	xtra po	st near bridg	e at NI	E and NW co	rners.	

Superstructure												
Bridge Comp	onent						Explanation of Condition					
(Primary Spar	n : <b>WG, 5 Spa</b>	ins, Len	gths(ı	m): 48.8-61-61	I-61-48	.8, A-lo	dent Number: A0645-01)					
Special Featu	ures											
Special Featu	ire					9						
(Type : )							Catwalk					
Special Featu	ire					X						
(Type : )												
Wearing Surfa	ace/Deck Top	Detail R	atings	;								
	N (%)	1 (%)		2 (%)	3 (%)							
Last	0	0		0		0						
Now	30.0	0.0	)	0.0	0	.0						
Wearing Surfa	ace			•	8	7						
		ETE - CC	ONVE	NTIONAL CHI	P SEA	L						
COAT)	po : <b>o o : : o</b> : :											
(Thickness(	mm) : <b>80</b> )											
Deck Top					N	N						
Deck Rideabil	lity				8	8						
Deck Joints					4	7	S. Deck Joint - misaligned fingers in contact with one side14-Jul-					
Temperatur		-1	5		4	1	2012					
· · · · · · · · · · · · · · · · · · ·	Type : <b>FINGE</b>											
(Expansion (Fixed Type			E3)									
Gap Size (n			Conl	ocation								
75			•	ut (A2)			-					
				. ,								
110	110 S. Abut (A1)						-					
							-					
Deels Dreiner	_				4	7	(CC - C outh mission elements of down enouth					
Deck Drainag		NI			4	7	(S5 - E. curb missing clamp on down spout. S. Abut (A1) - erosion @ drain trough, basin susceptible to cracking					
Drains Clog	ged (Y/N)	N	0				due to erosion, clamp is missing14-Jul-2012					
Curbs/Median	<u>۱</u>				5	N	Cracks, spalling on backside. Scaling on face, medium to wide					
(Curb Type	: Standard)						transverse cracks14-Jul-2012					
Scaling (Per	rcent Area)	5										
Bridge Rail					5	5	1 rail - E. side with loose bolt.					
(Type : GAL	VANIZED ST	FEEL BR	RIDGE	TUBE)			1 missing AB nut, insufficient threads 1 post cap with missing bolt14-Jul-2012					
Bridge Rail Po	osts				5	5						
(Type : GAL	VANIZED PC	OST STE	EL;G	ALVANIZED	POST		Onset of coating failure, rust bloom. (1 rusted bridgerail cap 123m from South abutment, East side 21-					
STÉEL)							Sep-2010).					
Bridge Rail/Po					5	5						
(Type : GAL	VANIZED)					1						
Sidewalk					9	X						
Girder/Beam												
Cover Plate					X	X	Girders painted 2010.					
Flange					7	7	Deflector plates installed on outside girder splice plates. Deteriorated stiffener welds.					
Web					7	7	CIF prone details, insuff. web cap; LS splice; pack rust on ext. field					
Stiffeners					4	4	splices14-Jul-2012					
Splice					5	5						
Weld					5	5						
Diaphragms/C	Cross Frame				4	4	Loose bolts14-Jul-2012					

Alberta Transportation

Superstructure									
Bridge Component		Last		Explanation of Condition					
(Primary Span : WG, 5 Spans, L	engths(m): 48.8-61-61	-61-48	8.8, A-Io	dent Number: A0645-01)					
Paint Condition		9	9	Yellow					
(Colour Description : )				_					
(Colour Code : )	1			_					
Touchup Required (Y/N)	No								
Bearings		4	4	North abutment rockers all bearing @ 70% expanded.					
Temperature (deg. C)	-15			(A1 exp 33mm, A2 exp 55mm. P4 contr 15 @ +8 degree C.					
(Expansion Type : ROCKER B	EARING)			NA exp 60 @ 8.					
(Fixed Type : )				P1 centered. 21-Sep-2010). (A1 & A2 brgs are over-extended14-Jul-2012)					
Coating Adequate (Y/N)	oating Adequate (Y/N) No								
Functioning (Y/N)	Yes								
Deck Underside		5	5	Leaching & corrosion stains; transverse cracks @ 1-3 M apart.					
Stains (Percent Area)	1								
Span Alignment Problems									
Vertical (Y/N)	No								
Horizontal (Y/N)	No								
Superstructure General Rating	I	4	4	CIF Prone details					
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments		1							
Bearing Seats/Caps		7	7						
(Type : CONCRETE)									
Backwalls/Breastwalls		7	7						
Wingwalls		7	7						
Piles		N	N						
Paint/Coating		7	7	Silver					
Abutment Stability		5	5	Suspect movement at N Abut (A2) & S. Abut (A1).					
Scour/Erosion		5	5	Erosion of South headslope toe from road drainage.					
Piers/Bents									
(Type : <b>PIER-SOLID</b> )				Minor cracks at random locations on piers.					
Bearing Seats/Caps		6	6						
(Type : <b>CONCRETE</b> )									
(Total Number of Bearing Piles :	0:0:0)								
Pier Shaft/Piles		7	7						
Bracing/Struts/Sheathing		Х	X						
Nose Plate		7	7						
Paint/Coating		4	4	Painr 50% abraided.					
(Colour Description : )				-					
(Colour Code : )			_						
Pier Stability		8	8						

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Scour		N	N	
Debris (Y/N)	Yes			Drift accumulation at toe of South headslope up to P1.
Substructure General Rating		5	5	
		5	Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				_
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		5	5	
HWM (m below Top of Curb)	0.0			HWM not visible.
Drift (Y/N)	Yes			Drift @ P1
Slope Protection		5	5	
(Type : NATURAL; NATURA	L)			
Guidebank/Spurs				
Adequacy of Opening		8	8	
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		5	5	

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

71291 -1 Bridge

					Mair	ntenance Rec	ommend	ations						
Inspector Recomm	nendations		Year	Inspector	Comments			Department Cor	nmen	Target Year	Est. Cost	Cat #		
REPAIR/REPLACI	REPAIR/REPLACE BRIDGE RAIL		2013	on E. cur	missing AB nut b. Replace dan rail, if not done	naged TT @ N	rail bolt IE							
GALVANIZE/PAINT BRIDGE RAIL														
RETROFIT BRIDGE RAIL														
SEAL CURBS			2013	Caulkin c done.	urb cold joints,	sealing curbs	, if not							
PATCH DECK														
SEAL DECK														
OVERLAY DECK														
REPAIR/REPLACI	E DECK JOINTS													
RESET/ PAINT BE	ARINGS													
REPAINT SUPER	STRUCTURE													
STRAIGHTEN/RE	PLACE MEMBERS													
WASHING														
SHOTCRETE REF	SHOTCRETE REPAIRS													
<b>REPAIR ABUTME</b>	REPAIR ABUTMENT SCOUR/EROSION													
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUMULATION														
OTHER ACTION	OTHER ACTION		2013	CIF repa	irs, if not done.									
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)			50.0/50.0 Sufficiency Rating (Las (%)			ating (Last/No	ow) 5	6.8/55.6	Est	t. Repl. Yr	2056	Maint. Re	qd. (Y/N)	Yes
	Establish if abutmer Monitor bearings.	nt move	ment has	s stabilized	@ A1 & A2.			Department Comments						
Maintenance Revi	ewed By							Date			E	Estimated Total	0	
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector	r's Name	Ed Kov	Ed Kowal					Previous Assistant's Name						
Next Inspection Da		17-Mar	-2016			F	Previous Inspection Date 14-Jul-2012							
Inspection Cycle (I		39												
Comment														