						Bri	dge Ir	nspect	ion								
Bridge File Number 79321 -1 Bridge							J		Form Type			PCS					
Year Built/Year 1952/1952									Lot No.			2					
Supstr									Inspector Name			Wade Nanninga					
ge cr remarks its crr =			COCK LAKE						Inspector Class			BR CLS A					
Located Over JARVIS CR			CREEK, 8.11.118.3.4, WATERCRS-					Assistant Name									
Located On LOCAL ROAD								Assistant Class									
Water Body CI./	Year							Inspe	Inspection Date			23-Apr-2013					
Navigabil. Cl./Ye	ear							Data	Data Entry By Lis				st				
		NW SEC 20 TWP 52 RGE 26 W5M						Data	Data Entry Date 03-May-2013								
		-117:48:	13, 53:30:	:22				Revie	wer N	Name		Eric Carcou					
Road Authority		Alberta T	ransporta	ation (Al	T)			Revie	w Da	te		29-Apr-201	3				
Contract Main. A	Area	UNDEFI	NED CMA	4				Dept.	Revie	ewer Na	ame						
Clear Roadway/	Skew	7.3 /								ew Date	9						
AADT/Year		5 / 2013	(E)					Follo	w-Up	Ву							
Road Classificat	ion	RLU-207	` '														
Detour Length (I	km)	999															
Allowable Load			28 DER		Semi	CS2 GIRI				Train		3 62 RDER		> On Critical Spans >Critical Member			
Design Loading:		HS2									1 -			> Primary			
						Post	ting Ir	nforma	ation						·		
Required Load Posting (t)			Single					S	Semi	ni			Truck Train				
Posted Loading	(t)			Single				S	Semi				Truck Train				
Posted:	Lane	NB		At Junction (Y/N)) N	o	In Advance (Y/N		/N)	No	At Bridge (Y/N)		No			
Posted:	Lane	SB		At Junction (Y/N)) N	o	In Advance (Y/N)		′/N)	No	At Bridge (Y/N)		No			
Remarks	Not re	equired.															
Hazard Marker A	At Brid	ge (Y/N)	Yes														
Remarks																	
Other Sign Type	s																
						Utilit	ties (L	Locate	d at)								
Utility Attachmer	nts																
Telephone								Gas									
Power							Municipal										
Others									Problem (Y/N) No								
Remarks																	
								ch Ro									
					La		Now			n of C							
Horizontal Aligni						3	4	90 de	gree	bends b	ooth	ends of bridg	je. Sei	rves as acces	s to camping		
Vertical Alignme					7		7	raciiil	facilities. Poor horizontal alignment.								
		7.000															
Approach Bump				N		6											
Guardrail (Y/N)		No															
Guardrail					X	X	-										
Length (m)																	
	Current Standard (Y/N)		No														
Termination Ty	уре		None														
Drainage						7	7										
Approach Road	d Gene	eral Ratin	9			3	4										

Ridge Component					,	Supers	tructure
Special Feature	Bridge Com	ponent					
Special Feature	(Primary Spa	an : PG, 1 Spa i	ns, Lengths(m): 6.1, A-ldeı	nt Num	ber:)	
Type : Special Feature	Special Feat	tures					
Special Feature	Special Feat	ure				Х	
Type: Waaring Surface/Deck Top Detail Ratings	(Type:)						
Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)	Special Feat	ure				X	
Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)	(Type:)						
N (%)		face/Deck Top	Detail Rating	S			
Now 60.0 0.0					3 (%)		
Wearing Surface X X X (Material Type :) (Thickness(mm) :) Lateral Connection Problem (YN)	Last	100					
(Material Type :) (Thickness(mm) :) Laterial Connection Problem (Y/N) Deck Top N	Now	60.0	0.0	0.0	0	0.0	
(Material Type :) (Thickness(mm) :) Lateral Connection Problem (Y/N) Deck Top N	Wearing Sur	face			Х	X	
Chickness(mm) : Lateral Connection Problem (YN)							
Lateral Connection Problem (Y/N) Deck Top No No A Covered by snow/gravel. Med transverse crack G5/6 midspan. Poeth Alloring Section of Se							
CYN Deck Top			n No				
Med transverse crâck G5/6 midspan.	(Y/N)						
Deck Joints	Deck Top				N	4	Covered by snow/gravel.
Bump (Y/N) No Deck Drainage 7 6 Drains Clogged (Y/N) No Curbs/Median 5 5 5 Cifype: Standard) Scaling (Percent Area) 10 Bridge Rail 7 7 7 Cifype: GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 7 7 7 Cifype: GALVANIZED POST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts 0 7 7 Cifype: GALVANIZED DOST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts 0 7 7 Cifype: GALVANIZED DOST STEEL; GALVANIZED POST STEEL SALVANIZED POST STEEL) Bridge Rail/Posts 0 7 7 Cifype: GALVANIZED DOST STEEL; GALVANIZED POST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts 0 7 7 Cifype: GALVANIZED DOST STEEL; GALVANIZED POST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts 0 7 7 Cifype: GALVANIZED DOST STEEL; GALVANIZED POST STEEL; GALVANIZED POST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts 0 7 7 Cifype: GALVANIZED POST STEEL; GALVANIZED POST STEEL							Med transverse crack G5/6 midspan.
Bump (Y/N) No	Deck Rideab	oility			7	7	
Bump (Y/N) No	Dock Jointo				NI	NI.	Ruffer angles covered by anou/gravel
Deck Drainage 7 6 Drains between girders. Drains Clogged (Y/N) No Curbs/Median 5 5 5 Lift pockets not grouted. (Curb Type : Standard) Scaling (Percent Area) 10 Bridge Rail 5 5 5 (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts Coating 7 7 7 (Type : GALVANIZED) Sidewalk X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) Last Now 0 0 0 0 0 Girders Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes GALVANIZED OUT) Clair Complete Inspection Date 0 0 Lift or Connector Pocket No Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No No		 \	No		IN	IN	Bullet angles covered by snow/graver.
Drains Clogged (Y/N) No Curbs/Median			INO		7		Desire haters as sinday
Curbs/Median					/	6	Drains between girders.
Curb Type : Standard Scaling (Percent Area) 10			No		_	_	
Scaling (Percent Area) 10 Bridge Rail 5 5 5 (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED) Bridge Rail/Posts Coating 7 7 (Type : GALVANIZED) Sidewalk X X Girder Detail Ratings					5	5	Lift pockets not grouted.
Bridge Rail (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST Bridge Rail/Posts Coating 7 7 (Type : GALVANIZED) Sidewalk X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) Last Now 0 0 0 0 0 Girders Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No No No Type : GALVANIZED POST STEEL;GALVANIZED POST Railing painted over galvanizing. Paint 99% gone. Bridge Rail/Posts Coating							
Bridge Rail Posts 7 7 (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 Now 0 0 0 0 0 Girders 5 4 20mm gap between G1/G2 & G8/G9. Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No		ercent Area)	10				
Bridge Rail Posts 7 7 (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 Now 0 0 0 0 Girders 5 4 Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes Galvanized Posts and Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No					5	5	Single layer.
Count Coun			TEEL FLEX B	EAM)			
STÉEL) Bridge Rail/Posts Coating 7 7 (Type : GALVANIZED) Sidewalk X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) Last Now 0 0 0 0 0 Girders 5 4 20mm gap between G1/G2 & G8/G9. Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes G8-2 med. cracks in deck extends into both legs. outside AZ. G8-2 med. cracks in deck extend into both legs outside AZ, G8-2 med. cracks in deck extend into both legs outside AZ.						7	
Bridge Rail/Posts Coating 7 7 (Type : GALVANIZED) Sidewalk X X X Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count) Last Now 0 0 0 0 Girders 5 4 Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No		LVANIZED PO	OST STEEL;	BALVANIZED	POST		Doiling pointed over golvening Doint 000/ gone
Circle C	Bridge Rail/F	Posts Coating			7	7	Railing painted over galvanizing. Faint 99 % gone.
Sidewalk Sidewalk X X							
Girder Detail Ratings N (count) 1 (count) 2 (count) 3 (count)		, , , , , , , , , , , , , , , , , , , ,			X	X	
Now 0 0 0 0 0 Girders 5 4 20mm gap between G1/G2 & G8/G9. Last Complete Inspection Date Cracking (Y/N) Yes Grouted (Y/N) Lift or Connector Pocket Grouted (Y/N) (Number Of Girders: 9) Span Alignment Problems Vertical (Y/N) No Vertical (Y/N) No G5/6 med transverse cracking in deck top. G5/6 med transverse cracking in deck top. G6/6 med transverse cracking in deck top.	Sidowalk						
Now 0 0 0 0 0 0 Girders 5 4 20mm gap between G1/G2 & G8/G9. Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes G8-2 med. cracks in deck extends into both legs. outside AZ. G8-2 med. cracks in deck extend into both legs outside A2, G9-narrow flex. cracks. Lift or Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No	Girder Detail	Ratings					
Now 0 0 0 0 0 0 Girders 5 4 20mm gap between G1/G2 & G8/G9. Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes G8-2 med. cracks in deck extend into both legs outside AZ. G8-2 med. cracks in deck extend into both legs outside A2, G9-narrow flex. cracks. Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No		N (count)	1 (count)	2 (count)	3 (cou	ınt)	G5/6 med transverse cracking in deck top.
Girders 5 4 20mm gap between G1/G2 & G8/G9. Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes G8-2 med. cracks in deck extends into both legs. outside AZ. G8-2 med. cracks in deck extend into both legs outside A2, G9-narrow flex. cracks. Lift or Connector Pocket Grouted (Y/N) (Number Of Girders: 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Last						
Last Complete Inspection Date 23-Apr-2013 Cracking (Y/N) Yes G8-2 med. cracks in deck extend into both legs outside AZ. G8-2 med. cracks in deck extend into both legs outside AZ, G9-narrow flex. cracks. Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders: 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Now	0	0	0		0	
Cracking (Y/N) Yes G8-2 med. cracks in deck extend into both legs outside A2, G9- Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Girders				5	4	20mm gap between G1/G2 & G8/G9.
Cracking (Y/N) Yes G8-2 med. cracks in deck extend into both legs outside A2, G9- Spalling (Percent Area) 0 Lift or Connector Pocket Grouted (Y/N) (Number Of Girders: 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Last Comple	te Inspection D	Date 23-Apr	-2013			G6-Narrow crack in deck extends into both leas. outside AZ.
Spalling (Percent Area) 0 Lift or Connector Pocket No Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Cracking (Y/N)	Yes				G8-2 med. cracks in deck extend into both legs outside A2, G9-
Grouted (Y/N) (Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Spalling (P	ercent Area)	0				Harrow Hex. Cracks.
(Number Of Girders : 9) Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	Lift or Conne Grouted (Y/N	ector Pocket N)	No				
Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No	,	•					
Vertical (Y/N) No No			s				
Horizontal (Y/N) No							
					5	4	
	Juporotruot	Joniorai IV				_	

					ructure	
Bridge Comp	onent			Last	Now	Explanation of Condition
Abutments						
(Extended E	Backwall Piles	(Y/N) : Y)			_0	
(Extended E	3ackwall Piles	Spacing(mm)) : 1800)			
(Total Numbe	er of Caps/Cor	hels : 1:1)				20 - 40mm gap between South abut. cap and P1,P2,P5(photo).
	s/Caps/Corbel		ne			Gap likely caused by frost heave. (Cap cored in 2012 - no rot.
Dearing Seats	N (count)	1 (count)	2 (count)	3 (cou	ınt)	- Jan/2012)
Last	. T (OOUTIL)	i (count)	2 (30dill)	0 (00)	<i>)</i>	
Now	0	0	0		1	
	s/Caps/Corbel			4	3	-
	EATED TIMBE					
(Depth(mm)): 300)				- -	
(Width(mm)					1	
Backwalls/Bre				4	4	Backwall clamps. Backwall sheathing bulging from earth pressure.
Greatest He	eight (m)	2.25				North backwall patched with plywood. South backwall to high at East end.
Wingwalls				4	4	SE wingwall too high at u/s end. Anchor pile & SE wingwall leaning approx. 150mm from vertical. Tie wire exposed at NW corner.
(Total Numbe	r of Bearing P	Piles : 5:5)				Piles cored in 2012
Piles Detail R	atings					A1P3,P5 crushing from backwall pressure - photo. (A1-P5 rot, approx 100mm void.
	N (count)	1 (count)	2 (count)	3 (cou	unt)	A1-P3 beginning of rot.
Last			1			A2-P3 beginning of rot Jan/2012)
Now	1	0	0		0	(2 piles rated '3', 1 pile rated '2' in 2012)
Piles				2	N	Rating of '2' based on coring 2012
Paint/Coating				Х	Х	
Abutment Sta	bility			7	5	Bulging/crushing piles.
Scour/Erosion	า			5	5	
Piers/Bents						
(Type:)						
	er of Caps/Cor	bels:)				
Bearing Seats	s/Caps/Corbel	s Detail Ratin	gs			
	N (count)	1 (count)	2 (count)	3 (cou		
Last						
Now	0	0	0		0	
Bearing Seats	s/Caps/Corbel	ls		X	X	
(Type:)						
(Depth(mm)):)					
(Width(mm)	:)					

						Cubat	
Bridge Compone	ont				Last	Now	Explanation of Condition
(Total Number of		Pilos :)			Lasi	INOW	Explanation of Condition
Piles Detail Ratin		1163.					
N (count) 1 (count) 2 (count)					3 (co	ınt)	
Last	(Journey	, (ocum	.,	<u> </u>	0 (00)	<i></i>	
Now	0	0		0		0	
Pier Shaft/Piles					X	X	
Greatest Heigh	t (m)						
Bracing/Struts/Sheathing					Х	X	
Nose Plate					X	X	
Paint/Coating					X	X	
(Colour Descrip	otion :)						1
(Colour Code :							
Pier Stability					X	Х	
Scour					Х	Х	
Debris (Y/N) No							
Substructure General Rating					2	2	GR carried forward.
						Structu	re Usage
					Last	Now	Explanation of Condition
Channel							
(U/S Direction : E							Right angle bend U/S to east. Creek flow impacts North abutment.
(D/S Direction : V	V)						
Alignment					4	4	
Bank Stability					7	7	
HWM (m below T	op of Curl	b)					Minor drift under bridge.
Drift (Y/N)		Ye	es				HWM not visible.
Slope Protection					7	5	River rock streambed at bottom of sheathing elev.
(Type : RIP RA		AP)					
Guidebank/Spurs					X	X	
Adequacy of Ope	ening				7	6	
(Fish Compensat	tion Measu	ure 1 : NC	NE)				
(Fish Compensation Measure 2 : NONE)							
Channel Genera	I Rating				4	4	

79321 -1 Bridge

		Maintenance	e Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department	Commen	its		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL									
SEAL CURBS									
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSI	ON								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL STRUTS									
OTHER ACTION	2013	Install load restriction signs of 5	tonnes.						
OTHER ACTION	2013	Consider installing approach gua poor horizontal alignment. May v consider upgrading bridgerail to installing approach rail.	want to						
OTHER ACTION	2013	Grout curb lift pockets.							
OTHER ACTION	2013	Replace A1P3,P5. Consider replacing A2P3							
OTHER ACTION	2013	Shim piles.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 38.9/33	Sufficiency Rating (La	ast/Now) 44.0/49.6	Est	t. Repl. Yr	2014	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection Monitor gap betwee Inspect @ 12 mont Monitor deck crack	h cycle until repa	issued to AIT via email April 28, 20 aired.	Department Comments						
Maintenance Reviewed By			Date			E	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Shane Hall		Previous Assistant's Na	Previous Assistant's Name					
Next Inspection Date	23-Jan-2018		Previous Inspection Dat						

Alberta Transportation Bridge Inspection & Maintenance System (Web 2005)

79321 -1 Bridge

Inspection Cycle (Default) (months)	57
Comment	