						Bri	idge lı	nspection						
Bridge File Num	ber	07492 -1 Bridge					Form Typ							
Year Built/Year		1972/19	72					Lot No.						
Supstr		045011	NE					Inspector	Inspector Name Owen Salava					
	ge or Town Name CAROLINE					000	Inspector	Class		BR CLS A				
Located Over		CLEARWATER RIVER, 6.159, V ST				HER	CRS-	Assistant	Name					
Located On		54:06 C1 0.137						Assistant	Class					
Water Body Cl./	Year							Inspection	n Date		05-Nov-201			
Navigabil. Cl./Ye	ear							Data Entr	•		Marcia Cha	ivez		
Legal Land Loca	ation	SW SEC	18 TWP	36 RGE	6 W5M			Data Entr	•		20-Nov-20			
Longitude, Latitu	ıde								Reviewer Name John O'Brien					
Road Authority		Alberta Transportation (AIT)						Review Date 14-Nov-2012						
Contract Main. A								·	Dept. Reviewer Name Andrew Smikles					
Clear Roadway/Skew 8.8 / -15 deg. (LHF)							Dept. Review Date 26-Nov-2012							
AADT/Year		2,810 / 2	2011 (A)					Follow-Up	Follow-Up By					
Road Classificat	ion	RAU-21	1.8-110											
Detour Length (I	km)	56												
Allowable Load	(t): Sin		1 56 DER		Semi	CS2	2 66 DER		Train		CS3 78 GIRDER		> On Criti	cal Spans
Design Loading:		HS				Giix	DLI				JINDLIN		> Primary	
9 9						Pos	ting l	nformation	า					
Required Load F	Posting	(t)		Single				Semi				Truc	k Train	
Posted Loading	(t)			Single				Semi	İ			Truc	k Train	
Posted:	Lane	EB		At Junc	tion (Y/N	1)	lo	In Advance (Y/N) No At Bridge (Y/N) No				No		
Posted:	Lane	WB				lo	In Ad	lvance	(Y/N	l) No	At B	ridge (Y/N)	No	
Remarks	Not re	quired.	_											
Hazard Marker A	At Bridg	ge (Y/N)	Yes											
Remarks														
Other Sign Type	Other Sign Types Information Caroline, Keep r				ep rig	ght exc	cept to pas	s.						
						Utili	ties (L	Located at	:)					
Utility Attachmer	nts TI	ELEPHO	NE UTILI	TIES-PH	IONE LIN	ΝE								
Telephone	In Sou	th curb 8	ditch, fib	re optic.				Gas						
Power	3 lines	es 30m North of c/l.					Municipal							
Others								Problem	(Y/N)	No				
Remarks														
								ch Road	la.: (	C =	alition:			
Horizontal Aligni	ment				Lâ	ast 6	Now 6	Explanat			dition y 22, 75m Wes	\+		
Vertical Alignme						6	6	Uphill gra	ide to E	ast.	y ZZ, / OIII VVE	οι.		
Roadway Width			12.600			U	U							
Approach Bump			12.000			6	6							
Guardrail (Y/N)			Yes			U	J	Missing to	ransitio	n rai	l bolt at SE.			
Guardrail			163			4	4	IVIIOSITIY II	เฉเเอเแบ	ша	. Jon at JL.			
Length (m)			34.000			•								
Current Stand	ard (Y/	N)	No					Insufficier	nt posts	s; no	t thrie beam.			
Termination Ty		,	Turn Do	own										
Drainage	,					7	7							
Diamage														
Approach Road	1.0					6	6							

			(	Supers	tructure			
Bridge Component					Explanation of Condition			
(Primary Span : FC, 3 Spans, Ler	ngths(n	n): 33.5-33.5-	33.5, A-	ldent l	Number: )			
Special Features								
Special Feature			8	8	Leg clips & dywidag bars.			
(Type : EXT LATER POST TENS)				1				
Special Feature				X				
(Type:)								
Wearing Surface/Deck Top Detail	Ratings	3						
N (%) 1 (%)		2 (%)	3 (%)					
Last 5	0	0		0				
<b>Now</b> 5.0	0.0	0.0	0	.0				
Wearing Surface (Material Type : CONCRETE - COAT) (Thickness(mm) : 50)	CONVE	NTIONAL CH	5  IIP SEA	5 <b>L</b>	Wear at jnts.			
	No							
Deck Top			N	N	Chip coat.			
Deck Rideability			7	7				
Deck Joints			4	4	Finger joint at A2 has end of finger welds broken on approach side			
Temperature (deg. C) 8					80%. 1 finger missing - photo.  Juts are dirty.			
(Expansion Type : FINGER PLA	TES)							
(Fixed Type : GLAND (WABO-MAUER, TRANSFLE				)				
Gap Size (mm) Gap Location  94 A1 - Finger								
Pier 1 - Gland								
85	Pier 2	- Gland						
132	A2 - F	inger						
Deck Drainage			4	6	No deck drains.			
Drains Clogged (Y/N)								
Curbs/Median			4	4	Light scaling.			
(Curb Type : <b>Standard</b> )					Spall at S3, S, post 1 (photo). Spall at post 4, N curb on S1 (photo 11).			
Scaling (Percent Area)	30							
Bridge Rail			7	7				
(Type: GALVANIZED STEEL E	RIDGE	TUBE)						
Bridge Rail Posts (Type: GALVANIZED POST STEEL;GALVANIZED)			POST	4	Short anchor bolts 2 posts NE corner.  Bolts not fully engaged - 5%.			
ŠŤĖEL)			7	7				
Bridge Rail/Posts Coating			7	7	-			
(Type : GALVANIZED)			\ \ <u>\</u>	V				
Sidewalk			X	X				
Girder Detail Ratings								
N (count) 1 (cou	unt)	2 (count)	3 (cou	ınt)				
	0	0		6				
<b>Now</b> 0	0	0		6				
Girders			3	3	6 curb girders have vertical end of girders cracks.			
Cracking (Y/N)	Yes				(Corrosion investigation completed in 2002, no strand corrosion found. 03/03/18).			
Spalling (Percent Area)	0				,			
(Number Of Girders : 18)								

Bridge Component				Supers	tructure
Primary Span : FC, 3 Spans, Lengths(m): 33.5-33.5-33.5-1 dent Number:	Bridge Component				
Bearings		engths(m): 33.5-33.5-3	33.5, A-	Ident I	
Temperature (deg. C)	Diaphragms/Cross Frame		5	5	Minor cracking of random diaphragms.
Temperature (deg. C)	Bearings		7	7	
(Expansion Type : REINFORCED PAD BEARING)     (Fixed Type : REINFORCED PAD BEARING)     (Fixed Type : REINFORCED PAD BEARING)     (Coating Adequate (YN))		8			
Coating Adequate (Y/N)		CED PAD BEARING)			
Coating Adequate (Y/N)	(Fixed Type : REINFORCED	PAD BEARING)			
Functioning (Y/N)					
Deck Underside		Yes			
Stains (Percent Area)   0			6	6	
Span Alignment Problems		0			
Vertical (Y/N)					
Substructure   Substructure		No			
Substructure   Last   Now   Explanation of Condition	Horizontal (Y/N)	No			
Bridge Component	Superstructure General Ratin	g	3	3	
Abutments   Bearing Seats/Caps   7   7				Subst	ructure
Bearing Seats/Caps   7   7	Bridge Component		Last	Now	Explanation of Condition
Type : CONCRETE	Abutments				
Backwalls/Breastwalls	Bearing Seats/Caps		7	7	
Wingwalls   5   5   SW BF plaque loose.	(Type : <b>CONCRETE</b> )				
Piles	Backwalls/Breastwalls		7	7	
Paint/Coating   5   5	Wingwalls		5	5	SW BF plaque loose.
Abutment Stability 7 7  Scour/Erosion 7 7  Piers/Bents (Type : PIER-SOLID)  Bearing Seats/Caps 4 4 (Type : CONCRETE) (Total Number of Bearing Piles : 0:0)  Pier Shaft/Piles 4 4  Bracing/Struts/Sheathing X X  Nose Plate 7 7  Paint/Coating 4 4 Rusted, nose plates - no action.  (Colour Description : ) (Colour Code : )  Pier Stability 7 7  Scour 5 5  Debris (Y/N) Yes Drift at P2.	Piles		N	N	
Scour/Erosion   7   7	Paint/Coating		5	5	
Piers/Bents       (Type : PIER-SOLID)     Piers have numerous rust spots and 3 shallow delams. Delams under girders at P1G2S2, G4S2 and G3S1.       (Type : CONCRETE)     Rust spot & delams P1.       (Total Number of Bearing Piles : 0:0)     Rust spot & delams P1.       Pier Shaft/Piles     4     4       Bracing/Struts/Sheathing     X     X       Nose Plate     7     7       Paint/Coating     4     4     Rusted, nose plates - no action.       (Colour Description : )     (Colour Code : )       Pier Stability     7     7       Scour     5     5       Debris (Y/N)     Yes     Drift at P2.	Abutment Stability		7	7	
(Type : PIER-SOLID) Bearing Seats/Caps	Scour/Erosion		7	7	
Colour Code:	Piers/Bents				
Colour Code:	(Type : <b>PIER-SOLID</b> )				Piers have numerous rust spots and 3 shallow delams.
(Total Number of Bearing Piles : 0:0)       Rust spot & delams P1.         Pier Shaft/Piles       4       4         Bracing/Struts/Sheathing       X       X         Nose Plate       7       7         Paint/Coating       4       4       Rusted, nose plates - no action.         (Colour Description :)       (Colour Code :)       7       7         Pier Stability       7       7         Scour       5       5         Debris (Y/N)       Yes       Drift at P2.	Bearing Seats/Caps		4	4	Delams under girders at P1G2S2, G4S2 and G3S1.
Pier Shaft/Piles         4         4           Bracing/Struts/Sheathing         X         X           Nose Plate         7         7           Paint/Coating         4         4         Rusted, nose plates - no action.           (Colour Description:)         (Colour Code:)         7         7           Pier Stability         7         7           Scour         5         5           Debris (Y/N)         Yes         Drift at P2.	(Type : <b>CONCRETE</b> )				
Bracing/Struts/Sheathing X X  Nose Plate 7 7  Paint/Coating 4 4 Rusted, nose plates - no action.  (Colour Description:) (Colour Code:)  Pier Stability 7 7  Scour 5 5  Debris (Y/N) Yes Drift at P2.	(Total Number of Bearing Piles	: 0:0)			Rust spot & delams P1.
Nose Plate 7 7  Paint/Coating 4 4 Rusted, nose plates - no action.  (Colour Description:)  (Colour Code:)  Pier Stability 7 7  Scour 5 5  Debris (Y/N) Yes Drift at P2.	Pier Shaft/Piles		4	4	
Paint/Coating 4 4 4 Rusted, nose plates - no action.  (Colour Description : )  (Colour Code : )  Pier Stability 7 7  Scour 5 5  Debris (Y/N) Yes Drift at P2.	Bracing/Struts/Sheathing		X	X	
(Colour Description : )         (Colour Code : )           Pier Stability         7         7           Scour         5         5           Debris (Y/N)         Yes         Drift at P2.	Nose Plate		7	7	
(Colour Description : )         (Colour Code : )           Pier Stability         7         7           Scour         5         5           Debris (Y/N)         Yes         Drift at P2.	Paint/Coating		4	4	Rusted, nose plates - no action.
(Colour Code : )           Pier Stability         7         7           Scour         5         5           Debris (Y/N)         Yes         Drift at P2.	•				
Pier Stability         7         7           Scour         5         5           Debris (Y/N)         Yes         Drift at P2.					
Debris (Y/N) Yes Drift at P2.			7	7	
	Scour		5	5	
Substitute Consul Dating	Debris (Y/N)	Yes			Drift at P2.
Substructure General Rating 4 4	Substructure General Rating		4	4	

		5	Structu	re Usage
			Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		6	6	Bank eroding 70m SE taking down trees (lots of bank left before there would be a problem).
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Large drift caught on P2.
Slope Protection		7	7	Concrete on West; class 3 rock East & West.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	Campground has extended guidebank with interlocking blocks at d/s end.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2:	NONE)			
Channel General Rating		6	6	

Alberta Transportation

			Maintenance Recommendations	ndations					
Inspector Recommendations	Year	Inspector Commen	omments	Department Comments	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Install bolt at anchor bolts.	Install bolt at SW transition rail; extend short anchor bolts.						
GALVANIZE/PAINT BRIDGE RAIL									
SEAL CURBS	2013	Patch spalls, 0.1m3	s, 0.1m3 OH-V, seal.						
PATCH DECK									
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS	2015	Weld on rep	Weld on replacement finger at A2.						
RESET/ PAINT BEARINGS									
WASHING	2013	Clean jnts.							
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSION	Z								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2013	At P2.							
OTHER ACTION	2013	Review gua	Review guardrail warrants.						
OTHER ACTION	2013	Assess gird	Assess girder repair options.						
OTHER ACTION	2013	Patch pier d	Patch pier delams/cracks, 0.2m3 OH-V, epoxy.	×.					
OTHER ACTION									
Structural Condition Rating (Last/Now)	w) 38.9/38.9		Sufficiency Rating (Last/Now) (%)	44.7/44.7	Est. Repl. Yr	2040	Maint. Reqd. (Y/N)		Yes
Special  Comments for floods. U/S does not appear to h strong eddy at NW. It appears m flooding. Channel to E of P2. Monitor girder end cracks. No action for nose plate coating.	s river & its cou appear to have t appears mian acks.	urse is largely σ e any defects : n current will g	This is a wild foothills river & its course is largely dictated by log jams during major floods. U/S does not appear to have any defects though d/s may experience a strong eddy at NW. It appears mian current will go straight to teh E during major flooding. Channel to E of P2. Monitor girder end cracks. No action for nose plate coating.	Department					
Maintenance Reviewed By				Date		Es	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previou	Previous Assistant's Name					
Next Inspection Date	05-Aug-2014		Previou	Previous Inspection Date	11-Apr-2011				
Inspection Cycle (Default) (months)	21								
Comment									

			Maintenance Recommen	dations				
Inspector Recommend	dations	Year	Inspector Comments	Department (	Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BE	RIDGE RAIL	2013	Install bolt at SW transition rail; extend short anchor bolts.	Programmed		2013		
GALVANIZE/PAINT BI	RIDGE RAIL							
SEAL CURBS		2013	Patch spalls, 0.1m3 OH-V, seal.	Programmed		2013		
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DE	ECK JOINTS	2015	Weld on replacement finger at A2.	Programmed		2013		
RESET/ PAINT BEAR	INGS							
WASHING		2013	Clean jnts.	Programmed		2013		
SHOTCRETE REPAIR	RS							
REPAIR ABUTMENT	SCOUR/EROSION							
PLACE ADDITIONAL I	RIP RAP							
REMOVE DRIFT ACCUMULATION		2013	At P2.	Programmed		2013		
OTHER ACTION		2013	Review guardrail warrants.	Defer				
OTHER ACTION		2013	Assess girder repair options.	Defer until re	placement			
OTHER ACTION	OTHER ACTION		Patch pier delams/cracks, 0.2m3 OH-V, epoxy.			2013		
OTHER ACTION								
Structural Condition (%)	Rating (Last/Now)	38.9/38	.9 Sufficiency Rating (Last/Now) (%)	44.7/44.7	Est. Repl. Yr 2040	Maint. Re	qd. (Y/N)	Yes
Comments for Next Inspection expedurir Chair Mon	or floods. U/S does no	ot appear at NW. It	urse is largely dictated by log jams during to have any defects though d/s may appears mian current will go straight to teh E	Department Comments	Replacement programmed	for 2022.		
Maintenance Reviewe	d By Andre	ew Smikle	es ·	Date	19-Dec-2012	Estimated Total	1 0	
Proposed Long-Term S	Strategy							
On 3-Year Program (Y	′/N)							
Proposed Action								
Previous Inspector's N	lame Ower	n Salava	Previous	Assistant's Na	me			

Bridge Inspection & Maintenance System (Web 2005)

Alberta Transportation

Next Inspection Date	05-Aug-2014	Previous Inspection Date	11-Apr-2011
Inspection Cycle (Default) (months)	21		
Comment			

07492 -1 Bridge