						:	Bridge II	nspec	ction							
Bridge File Num	ber	00798 -1	Bridge				J		n Type			PCS				
Year Built/Year		1962/196	2					Lot N	No.			1				
Supstr		CAROTA	RSTAIRS						Inspector Name			Erin Zubot				
Bridge or Town	Name		TARY TO BEAVERDAM CREEK,					Inspector Class			BR CLS B					
Located Over			11.1, WATERCRS-ST					Assistant Name								
Located On		580:02 C							Assistant Class							
Water Body Cl./	Year								Inspection Date			01-Feb-2013				
Navigabil. Cl./Ye	ear								Data Entry By			Marcia Chavez				
Legal Land Location SW SEC			C 6 TWP 30 RGE 2 W5M						Data Entry Date			11-Feb-2013				
Longitude, Latitude -114:16:5		6:58, 51:31:58					Reviewer Name			John O'Brien						
Road Authority Alberta T		ransporta	ation (Al	T)			Revi	Review Date 08-Feb-2013								
Contract Main. Area CMA29		• , ,					Dept. Reviewer Name			Darron Ahlstedt						
Clear Roadway/	Skew	9.1 / 30 d	eg. (RHF	=)				Dept. Review Date			13-Feb-201	3				
AADT/Year		1,420 / 20	011 (A)					Follo	ow-Up E	Зу						
Road Classificat	tion	RCU-209	-110													
Detour Length (I	km)	5														
Allowable Load	(t): Sin						S2 52			Train		3 75> On Crit		ical Spans		
Design Loading:		GIRI HS2			GIRDE						DER		>Critical Member> Primary Span			
Design Loading.		ПЗ2	U			P	osting li	nform	ation					> Pililialy	оран	
Required Load F	Posting	(t)	Single						Semi				Truc	k Train		
Posted Loading		.,		Single				;	Semi				Truc	k Train		
Posted:	Lane	EB		At Junction		۷)	No	In Advance (Y/N)			ridge (Y/N)	No		
Posted:	Lane	WB		At June	ction (Y/N	N)	No	In Advance (Y/N)		Y/N)	No	At B	At Bridge (Y/N) No			
Remarks	Not re	equired.													·	
Hazard Marker	At Brid	ge (Y/N)	Yes													
Remarks			Double	sided ha	azard @	NE	& SW o	only.								
Other Sign Type	es															
							ilities (L	Locate	ed at)							
Utility Attachme	nts T	ELEPHON	IE UTILI	ΓΙΕS-PΗ	IONE LI	NE										
Telephone		r/w & Sou						Gas								
Power	7 wire	s North r/	ν.						Municipal Name of the Control of the							
Others								Prob	olem (Y	/N) 1	No					
Remarks																
						ast	Approa Now		ા lanatio	n of C	ondi	tion				
Horizontal Align	ment					<u>αδι</u> 6	6						JF cor	ners. Long g	radual crest	
Vertical Alignme						7	7	curv	e both	ways.	No p	assing.	12 001	noro. Long g	radaar oroot	
Roadway Width			9.000				'	Bum	n at N\	N corr	ner (n	hoto) - ACP r	natchii	ng has been	completed	
Approach Bump			0.000			4	5		.p at iti		ю. (р	11010) 7101	outo	ng nao boon	oomprotou.	
Guardrail (Y/N)			Yes					sw	corner	accide	ent da	mage - 2 pos	st brok	en. 1 other h	roken post SE	
Guardrail						5	3	corn	er & 1	post s	olit, 1	post in NE c	orner	split.		
Length (m)			11.400					Insut	fficient	length	and	posts.				
Current Stand	ard (Y/	N)	No							-						
Termination T			Turn Do	wn												
Drainage						7	7									
Approach Road	d Gene	eral Rating	3			6	6									

				,	Supers	structure				
Bridge Comp	oonent			Last	Now	Explanation of Condition				
(Primary Spa	n : HC, 1 Spa ı	ns, Lengths(r	n): 8.5, A-Ide	nt Num	ber:)					
Special Feat	ures									
Special Featu	ıre				Х					
(Type:)										
Special Featu	ıre				Х					
(Type:)										
Wearing Surfa	ace/Deck Top	Detail Ratings	3							
	N (%)	1 (%)	2 (%)	3 (%)						
Last	0	0	0		0					
Now	0.0	0.0	0.0	0	.0					
Wearing Surf	ace			8	7	Longitudinal cracks between girder lines.				
(Material Ty					1	ACP patching NW corner rough where patched.				
(Thickness)	•									
	ection Problem	n No								
(Y/N)										
Deck Top				N	N					
					_					
Deck Rideabi	ility			8	7					
Deck Joints				N	N	Buffer angles paved over.				
Bump (Y/N)	<u> </u>			- 1		Dullet angles paved over.				
Deck Drainag				8	8					
Drains Clog		No		0	0					
	, <u>, , , , , , , , , , , , , , , , , , </u>	INO				Longit grade top of Novemb				
Curbs/Mediar				6	3	Longit. crack top of N curb. S curb 2 bridgerail post & anchors broken out of curb; anchorage				
	: Standard)					totally gone, large hole with exposed rebar.				
Scaling (Pe	rcent Area)	0			Ι.					
Bridge Rail				8	4	Single layer. 2 sections not supported due to broken posts.				
` • •	LVANIZED ST	EEL FLEX B	EAM)	Τ.	T _					
Bridge Rail P				8	2	2 bridgerail posts with broken anchor assemblies & not connected to bridge.				
(Type : GAI STEEL)	LVANIZED PO	OST STEEL;G	IALVANIZED	POST						
Bridge Rail/P	osts Coating			8	8					
	LVANIZED)									
Sidewalk	L VAINLLD)			Х	Х					
Sidewaik				^	_ ^					
Girder Detail	Ratings									
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		1					
Now	0	0	0		4					
Girders				3	3					
Last Complet	e Inspection D	ate 01-Feb	-2013							
Cracking (Y	′/N)	Yes				7 girders have wide longit. cracks in 1 leg in AZ, 2 with medium width				
	ercent Area)	20				longit. cracking in other leg; worst is G10 with spall leg - photo. End diaphragm breaks @ 2 girders - photo.				
Lift or Connec	ctor Pocket	Yes				G1,11 spalled inside legs almost full length with section loss on rebar				
Grouted (Y/N	•					(less than 20%). G1 spall in AZ both legs at A1, curb + 1.				
(Number Of C	Girders : 11)					G1 spall in AZ both legs at A1, curb + 1. G10 spall formed at AZ. Percentage of spalling is estimated.				
Span Alignm	ent Problems	3								
Vertical (Y/I		No				West end 250mm offline - photo; bridge twisting.				
Horizontal (Yes								
	ure General R			3	2	GR governed by bridgerail posts (safety concern).				

					Subst	ructure				
Bridge Com	ponent			Last	Now	Explanation of Condition				
Abutments										
(Extended	Backwall Piles	s (Y/N) : Y)								
(Extended	Backwall Piles	s Spacing(mn	n) : 1500)							
(Total Numb	er of Caps/Co	rbels : 7:7)								
Bearing Seat	ts/Caps/Corbe	ls Detail Ratio	ngs							
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0	:	2					
Now	0	0	0	:	2	200 v 200 con				
Bearing Sea	ts/Caps/Corbe	els		3	3	300 x 300 cap. W cap rotated back.				
(Type : TR	EATED TIMB	ER)				Rot in S end of 90 x 300 cap @ E abut & suspect rot @ N of E abut. Sag in mid of W wall also 90 x 300mm plank on top of cap.				
(Depth(mm	n): 300)					Some crushing into cap at split @ SW pile.				
(Width(mm	n) : 300)					Wide radial crack in N end of W cap - photo. Suspect rot.				
Backwalls/Breastwalls					4	NW extension pile leaning, separated from backwall - photo - cable				
Greatest Height (m) 2.50						tied to A1P7,8. SW extension pile broken at ground from accident. Estimated 2.0m to ice level.				
Wingwalls					3	SW wingwall cleat broken at top & SW wingwall pile broken at groundline from accident, top 2-3 wingwall planks broken too				
(Total Numb	er of Bearing F	Piles : 8:8)								
Piles Detail F										
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		1					
Now	0	0	1		1					
Piles					2	SW corner pile split - photo. A1P7-8 steel jacket repairs. A1P1 leaning, only bearing ~100mm. A2P7,8 full length splits, P7 wide split with void, suspect rot at waterline.				
Paint/Coating	g			Х	Х					
Abutment Sta	ability			4	3	Cap rolling & cracked pile, extended pile broken at SW corner & backwall bulging. Extended pile at NW leaning, cable tied to bearing piles.				
Scour/Erosio	on			4	N	(Erosion behind NW wingwall - photo. 27Oct2011) - Snow covered.				
Piers/Bents										
(Type:)										
` • • • •	er of Caps/Co	rbels :)								
`	ts/Caps/Corbe		ngs							
V	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last										
Now										
Bearing Sea	ts/Caps/Corbe	els		Х	Х					
(Type:)	•									
(Depth(mm	n):)									
(Width(mm										
	er of Bearing F	Piles :)								
Piles Detail F		,				1				
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last										
Now										
Pier Shaft/Pi	les	•	·	Х	Х					
Greatest H						1				
Bracing/Stru				4	3	Struts are rotating due to skew, missing cleat under some struts; end of cleat broken due to accident SE side - still functioning. Cleats on A2P5,6 are split/twisted & falling off (photo).				

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		Х	Х	
Paint/Coating		Х	Х	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		Х	Х	
Debris (Y/N) No				
Substructure General Rating		3	2	
		5	Structu	re Usage
			Now	Explanation of Condition
Channel				
(U/S Direction : S)				Fair alignment; wide, flat channel.
(D/S Direction : N)				
Alignment		4	5	
Bank Stability		7	7	
HWM (m below Top of Curb)	0.4			(1997/03/06) - Not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type: NATURAL; NATURAL	-)			
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		4	5	

00798 -1 Bridge

				Maintenance Reco	mmend	ations					
Inspector Recomi	mendations	Year	I	Inspector Comments		Department Comme	ents		Target Year	Est. Cost	Cat #
REPAIR/REPLAC	E BRIDGE RAIL	2013	F	Replace 2 broken anchors & recast.							
SEAL CURBS		2013	F	Patch curb at post anchors.							
PATCH DECK											
OVERLAY DECK	,										
STRAIGHTEN/RE	EPLACE MEMBERS										
WASHING											
SHOTCRETE REPAIRS											
CORE TIMBER CAPS/CORBELS											
REPAIR/REPLACE TIMBER CAPS											
REPAIR ABUTME	REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIO	NAL RIP RAP										
REMOVE DRIFT	ACCUMULATION										
INSTALL STRUT	S										
OTHER ACTION		2013	F	Reinstall hazard markers to meet standa	lard.						
OTHER ACTION		2013	F	Replace broken guardrail posts.							
OTHER ACTION		2013	F	Replace bridge.							
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)											
	ition Rating (Last/N	ow) 33.3/	22.2	Sufficiency Rating (Last/Nov (%)	w) 5	5 7.0/52.8	Est. Repl. Yr	2013	Maint. Re	qd. (Y/N)	Yes
	Bridge scheduled to	be replaced;	how			Department Comments	est. Repl. Yr	2013	Maint. Re	qd. (Y/N)	Yes
Special Comments for	Bridge scheduled to the meantime. Monitor stability of S LRA sent to Donald	be replaced;	how	rever, bridgerail & guardrail should be fix		Department	Est. Repl. Yr		Maint. Re		Yes
Special Comments for Next Inspection	Bridge scheduled to the meantime. Monitor stability of S LRA sent to Donald	o be replaced; SW wingwall a I Saunders &	howe at W a Chris	rever, bridgerail & guardrail should be fix	ixed in	Department Comments Date	Est. Repl. Yr				Yes
Special Comments for Next Inspection Maintenance Rev Proposed Long-T	Bridge scheduled to the meantime. Monitor stability of S LRA sent to Donald riewed By	o be replaced; SW wingwall a I Saunders &	howe at W a Chris	rever, bridgerail & guardrail should be fix abut until replaced (on 6mth cycle). Black of AT on 01Feb2013.	ixed in	Department Comments Date	est. Repl. Yr				Yes
Special Comments for Next Inspection Maintenance Rev	Bridge scheduled to the meantime. Monitor stability of S LRA sent to Donald riewed By	o be replaced; SW wingwall a I Saunders &	howe at W a Chris	rever, bridgerail & guardrail should be fix abut until replaced (on 6mth cycle). Black of AT on 01Feb2013.	ixed in	Department Comments Date	est. Repl. Yr				Yes
Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra	Bridge scheduled to the meantime. Monitor stability of S LRA sent to Donald riewed By Ferm Strategy	o be replaced; SW wingwall a I Saunders &	hower the control of	rever, bridgerail & guardrail should be fix abut until replaced (on 6mth cycle). Black of AT on 01Feb2013.	ixed in	Department Comments Date	Est. Repl. Yr				Yes
Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action	Bridge scheduled to the meantime. Monitor stability of SLRA sent to Donald riewed By Ferm Strategy Term (Y/N)	be replaced; SW wingwall a I Saunders & 2007.10.10 I	how Chris	rever, bridgerail & guardrail should be fix abut until replaced (on 6mth cycle). Black of AT on 01Feb2013. of regional consutlant for Spot program.	. Schedu	Department Comments Date Date Date	Est. Repl. Yr				Yes
Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecto Next Inspection D	Bridge scheduled to the meantime. Monitor stability of SLRA sent to Donald riewed By Ferm Strategy Term (Y/N)	be replaced; SW wingwall a I Saunders & 2007.10.10 I	how Chris	rever, bridgerail & guardrail should be fix abut until replaced (on 6mth cycle). Black of AT on 01Feb2013. of regional consutlant for Spot program.	. Schedu	Department Comments Date Liled for 2012. Assistant's Name					Yes

Bridge Inspection & Maintenance System (Web 2005)