						В	Bridge Ir	spe	ction							
Bridge File Numl	ber	07475	-1 Bridge					Form Type			SG					
Year Built/Year 1957/1957								Lot No.			2					
Supstr								Inspector Name			Owen Salava					
Bridge or Town Name BLUFFTON				^/^TED/	TDCDC CT			Inspector Class			BR CLS A					
Located Over BLINDMAN RIVER, 3.78, WATE				VATER	ERCRS-ST			Assistant Name								
Located On		20:06	C1 13.859						Assistant Class							
Water Body CI./									Inspection Date			09-Jul-2012				
Navigabil. Cl./Ye		0)4/ 01	FO 40 TMP	44 005	0.14/514			Data Entry By			Marcia Chavez					
Legal Land Loca			EC 12 TWP		3 775171			Data Entry Date			01-Aug-2012					
Longitude, Latitu			8:57, 52:46						Reviewer Name			John O'Brien				
Road Authority Alberta Transportation (AIT)				)				Review Date			30-Jul-2012					
Contract Main. A		CMA1	0					Dept. Reviewer Name			Andrew Smi	kles				
Clear Roadway/S		11 /	/ 2011 / / /					Dep	t. Revi	ew Dat	е	02-Aug-2012	2			
AADT/Year			/ 2011 (A)					Foll	ow-Up	Ву						
Road Classificat			208G-90													
	Detour Length (km) 3  Allowable Load (t): Single CS1 75 GIRDER  Semi						S2 108 RDER				⊥ 33 153 RDER		> On Critical Spans >Critical Member			
Design Loading:			S20			OmtoLit								> Primary		
J J						Po	sting Ir	nforn	nation						•	
Required Load F	osting	(t)		Single					Semi			Truc	k Train			
Posted Loading	(t)			Single					Semi				Truc	k Train		
Posted:	Lane	NB At Junction (		ion (Y/N	No No			In Adv	dvance (Y/N)		No	At Bı	ridge (Y/N)	No		
Posted:	Lane	SB		At Junction (		N) No			In Adv	n Advance (Y/N)		No	At Bı	ridge (Y/N)	No	
Remarks	Not re	quired.														
Hazard Marker A	At Bridg	je (Y/N	l) No													
Remarks	Remarks Not required.															
Other Sign Type	S		River II	).												
Utility Attachmen	nte					Ut	ilities (L	_oca	ted at)							
Telephone	In r/w	to Mas	·+					Gas								
Power			20 m from	∽/l 1 wiro					nicipal							
Others	OnLa	St 1/ W,	20 111 110111	5/1, 1 WII C	•				Problem (Y/N) No							
Remarks								1 10	1) 111010	,,,,	10					
Romano							Approa	ch R	oad							
					La	ast				ation of Condition						
Horizontal Alignr	nent					7	7				ches to the North.					
Vertical Alignme						7	7									
Roadway Width			11.000						Small potholes developing at A1 in SBL (photo).							
Approach Bump				4	4											
Guardrail (Y/N) Yes																
Guardrail				7	7											
			70.000	70.000					l., .,							
Current Standard (Y/N) No							Not thrie beam.									
Termination Type TURNED DOWN			ı													
Drainage					4	4	Bridge is at bottom of sag with approaches partly draining onto bridge.					ng onto				
Approach Road	l Gene	ral Rat	ting			7	7									

			9	Super	structure
Bridge Component					Explanation of Condition
(Primary Span : RB, 2 Spans, L	 _enaths(i	m): 15.2-15.2.			•
Special Features	g(.	,	7110011		
Special Feature				Х	
(Type:)					
Special Feature				Х	
(Type:)					
	ail Pating	<u> </u>			
	Surface/Deck Top Detail Ratings  N (%)  1 (%)  2 (%)		3 (%)		
Last 10	/ <u>0)</u> 0	0	0 0.0		
		-			1
0.0 0.0					
Wearing Surface			6	5	Hairline 0.1 mm wide map cracking at North span. Chipsealed with some delaminated at pier in NBL.
(Material Type : CONVENTIO	NAL CHI	P SEAL COAT	Γ)		-
(Thickness(mm) : )				1	
Deck Top			N	N	
Deck Rideability			7	6	
Deck Joints			3	3	(Leaking onto abut/pier at all 6 gutter locations.) - Unable to confirm
Temperature (deg. C)	29				in dry conditions; all joints tarred.
(Expansion Type : BUFFER A					Concrete blockout at deck underside isdeteriorating exposing rusting rebarsat N abut, pier & S abut block out.
(Fixed Type : BUFFER ANGL					
Gap Size (mm)	T .	_ocation			Pier joint is jammed.
5	N. ab				-
15	C. pie				-
0 S. abut					-
	3. ab	ut			-
					-
					-
Deck Drainage			4	4	Deck joints allow water onto piers &
Drains Clogged (Y/N)	No		4	4	abuts.
	INO		N.		Links and the sand to see and to
Curbs/Median			N	5	Light scaling at face and transverse cracks.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)	5			1	
Bridge Rail			7	7	20% of grout pads have voids under base plate.  E rail multiple nuts not tight to washers - 26 in total.
(Type : GALVANIZED STEEL	_ VERTIC	AL BAR)			
Bridge Rail Posts			N	4	-
(Type : POST STEEL;POST S	STEEL)				4
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			Х	Х	
Girder/Beam					
Cover Plate			7	7	
Flange			7	7	
Web			7	7	
Stiffeners			Х	Х	
Splice				Х	
Weld	·				1
Diaphragms/Cross Frame				7	
, 5			7		

			Supers	tructure					
Bridge Component				Explanation of Condition					
(Primary Span : RB, 2 Spans, L	engths(m): 15.2-15.2,								
Paint Condition		5	5	95% of girder paint is good. Some touch-up required below the joints.					
(Colour Description : BLUE)									
(Colour Code : <b>502-105</b> )									
Touchup Required (Y/N)	No								
Bearings		4	4	Bearings are resisting movements resulting in bent AB's and twisted					
Temperature (deg. C)	29			plates.					
(Expansion Type : SLIDING P	LATE)			2 anchor bolt nuts missing & other hardware loose.					
(Fixed Type : PINNED BEARI									
Coating Adequate (Y/N)	No			50% superficial corrosion at abut bearings.					
Functioning (Y/N)	No			S abutjammed against girders.					
Deck Underside		6 6		Transverse cracks every est 1.5 m with leach stains under gutters.					
Stains (Percent Area)	2			Joint block outs deteriorated at deck underside.					
Span Alignment Problems		<u>'</u>							
Vertical (Y/N)	No								
Horizontal (Y/N)	No								
Superstructure General Rating	1	4	4						
		1		ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments Bearing Seats/Caps		5	5	Gravel and debris on abut seat due to leaky joints.					
(Type : CONCRETE)		<u> </u>	<u> </u>	Graver and debris on abut seat due to leaky joints.					
Backwalls/Breastwalls		7	7						
Dackwaiis/Dieastwaiis		_ ′	<b>'</b>						
Wingwalls		7	7						
Piles		N	N						
Paint/Coating		Х	X						
Abutment Stability		5	5						
Scour/Erosion		7	6	Settlement or erosion under A2 seat.					
Piers/Bents									
(Type : PIER-SOLID)				2 vertical medium width cracks and medium scaling. Gravel on pier					
Bearing Seats/Caps		4	4	seat due to leaky joint. Spall at NE corner.					
(Type : <b>CONCRETE</b> )									
(Total Number of Bearing Piles :	0)								
Pier Shaft/Piles		6	6						
Bracing/Struts/Sheathing		Х	Х						
Nose Plate		6	6						
Paint/Coating		Х	4	Surface rusted.					
(Colour Description : )									
(Colour Code : )									
Pier Stability		6	6						
Scour		N	N						
Debris (Y/N)	Yes			Drift on pier & abut seats.					
Substructure General Rating		4	4						

Structure Usage											
		Last	Now	Explanation of Condition							
Channel											
(U/S Direction : W)			Steep cut banks at D/S.								
(D/S Direction : E)											
Alignment		6	6								
Bank Stability		6	6								
HWM (m below Top of Curb)	-0.5			(Negative freeboard of approx 500. 07Feb2008).							
Drift (Y/N)	Yes			Drift on top of pier and abut seats at hslps.							
Slope Protection			6	Some rock both abuts.							
(Type: NATURAL; NATURAL	.)										
Guidebank/Spurs		Х	X								
Adequacy of Opening			4	Basin scoured out under bridge but not affecting structure embankments. Minor erosion under A2 bearing seat (photo). Not passing full flow; drift on pier.							
(Fish Compensation Measure 1	NONE)										
(Fish Compensation Measure 2	NONE)										
Channel General Rating			4								

			Maintenance Recomme	ndations									
Inspector Recommendations	Year	Inspecto	r Comments	Department Co	mments		Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten 2	26 nuts flush to washers.										
GALVANIZE/PAINT BRIDGE RAIL													
RETROFIT BRIDGE RAIL													
SEAL CURBS													
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLACE DECK JOINTS		Recast c joints.	oncrete blockouts @ underside of										
RESET/ PAINT BEARINGS	2012	Replace and tight	bearings. Install 2 anchor bolt nuts en all loose bolts.										
REPAINT SUPERSTRUCTURE	2012	Touchup	paint under joints.										
STRAIGHTEN/REPLACE MEMBERS													
WASHING													
SHOTCRETE REPAIRS													
REPAIR ABUTMENT SCOUR/EROSI	ON												
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION	2012	Remove substruct	Remove drift from superstructures and substructures.										
OTHER ACTION		Clean gra	avel off abutment & pier seats.										
OTHER ACTION		Raise bri	dge 600mm.										
OTHER ACTION		Patch po	tholes at A1.										
OTHER ACTION	2012	Patch sp	all NE pier cap.										
Structural Condition Rating (Last/N (%)	ow) 44.4/4		Sufficiency Rating (Last/Now) (%)	63.9/63.6	Est. Repl. Yr	2035	Maint. Re	eqd. (Y/N)	Yes				
Special Comments for Next Inspection				Department Comments									
Maintenance Reviewed By				Date		E	stimated Tota	I 0					
Proposed Long-Term Strategy	2006.05.09 R	ehab in 202	0 and spot replacement in 2050.										
On 3-Year Program (Y/N)	Υ	Y											
Proposed Action	2006.05.09 Jo	oint repair in	2008.										
Previous Inspector's Name	Owen Salava		Previou	us Assistant's Name									
Next Inspection Date	09-Apr-2014		Previou	us Inspection Date	08-Dec-2010								
Inspection Cycle (Default) (months)	21			,									
Comment													