## Bridge Inspection & Maintenance System (Web 2005)

							sridge I	Inspection								
Bridge File Numb	ber							Form	Form Type SG							
Year Built/Year	1962/1962						Lot No.			2						
Supstr	own Name RED DEER							Inspec	tor Name	Э	Randy Bredo					
Bridge or Town N	ated Over CNR					Inspector Class				5	BR CLS A					
	2:26 L1 2.368						Assistant Name									
ocated On								Assistant Class								
Vater Body CI./Y								Inspection Date			18-Oct-2012					
Vavigabil. Cl./Ye											Marcia Chav	larcia Chavez				
egal Land Locat					7 W4N	1		Data Entry Date			05-Nov-2012					
ongitude, Latitu		-113:51:0	,					Reviewer Name			John O'Brier	۱				
Road Authority		Alberta T	ransporta	ation (AI	1)			Review	v Date		01-Nov-2012	2				
Contract Main. A		CMA19						Dept.	Reviewer	Name	Andrew Smil	kles				
Clear Roadway/S	way/Skew 12.2 / 41 deg. (RHF) 35,980 / 2011 (A)			IF)				Dept.	Review D	Date	13-Nov-2012	2				
ADT/Year								Follow	Follow-Up By							
Road Classificati							-									
Detour Length (km) 1 Allowable Load (t): Single CS1 57				0	i CS2 75 Train CS				0.00		0.0					
Allowable Load (t): Single CS1 57 GIRDER				Semi					3 90 RDER		> On Crit >Critical	ical Spar Member	าร			
Design Loading: HS20											> Primar					
				Po	osting I	nformat	tion									
equired Vert. C	learand	ce Postin	g (m)													
osted Vertical C	learan	ce (Y/N)		No												
			In Adva	ance	(Y/N)	No I	ane SE	3 C	n Bridge (m)		In Advanc	e (Y/N)	No			
emarks	Not red	quired.	• • •				<u>, , , , , , , , , , , , , , , , , , , </u>									
Required Load Posting (t) Single						Se	Semi Truc			Truck	Train					
Posted Loading (t) Single				Semi		emi				uck Train						
	Lane	NB		At Junc	tion (Y	/N)		In	Advance	e (Y/N)		At Bri	dge (Y/N)			
	Lane	SB		At Junc			No					dge (Y/N)	No			
Remarks	Lane         SB         At Junction           Not required.         Image: Additional state				,						<u> </u>					
lazard Marker A																
Remarks		- ( - /	-													
Cemarks Other Sign Types																
	-					Ut	ilities (I	Located	at)							
Jtility Attachmen	ts						,									
		o markei						Gas								
Power								Munic	pal							
Others								Problem (Y/N) No								
Remarks									. ,	_						
							Appro <u>a</u>	ach Roa	d							
						Last	Now		nation of	Condi	tion					
Horizontal Alignn	nent					8	8	Highw	Highway crests over RR.							
ertical Alignmer	nt					7	7									
Roadway Width (	(m)		12.100													
						6	6									
pproach Bump			Yes					No rai	@ SE co	orner.						
					7	7										
Guardrail (Y/N)	Guardrail															
Guardrail (Y/N)			99.000								Not fully a PL2 standard.					
Guardrail (Y/N) Guardrail	urd (Y/N	۱)	99.000 No					Not fu	ly a PL2	standar	d.					
Length (m)		۱)		own				Not fu	ly a PL2	standar	d.					
Guardrail (Y/N) Guardrail Length (m) Current Standa		۱)	No	own		4	4	NW di		aused a	d. a shallow slide	e of the	e fill which r	low appe	ars	

						Supers	tructure			
Bridge Component							Explanation of Condition			
(Primary Span : RB, 3 Spans, Lengths(m): 17.7-22.6-										
Special Feat	ures									
Special Feature						Х				
(Type : )										
Special Featu	ure					Х				
(Type : )										
Wearing Surface/Deck Top Detail Ratings				3						
<b>_</b>	N (%)	1 (%)		2 (%)	3 (%)					
Last	0		0	0		0				
Now	0.0	0	.0	0.0	C	).0				
Wearing Surf		-	-		8	4	Shallow rutting in wheelpaths - monitor.			
				L CHIP SEAL	-					
(Thickness						· /	-			
```					N	N				
Deck Top										
Deck Rideability					8	8				
Deck Joints					5	5	Missing 6 plow deflectors S, missing 6 plow deflectors N. We lane & shoulder deflectors missing.			
Temperature (deg. C) 9							vve iane & snoulder deflectors missing.			
(Expansion Type : GLAND (SILICON SEAL))							Expansion: A1, A2.			
(Fixed Type : )										
Gap Size (mm) Gap Location				ocation						
67 S. abut										
71 N. abut										
Deck Drainag	ge				7	7				
Drains Clog	-		No							
Curbs/Media					5	5	Wide transverse 0.3 to 1m spacing.			
	: Standard)					-				
	ercent Area)		3				1			
Bridge Rail			-		6	5	Retrofit rail installed.			
			FRTIC		0	5	Panel 13th from NW & 1st, 2nd, 4th and 5th from NE have minor			
Bridge Rail P			0		6	4	damage to vertical bars also 2nd from SW; no action since retrofit rail in place.			
		יפ דפר	FELO		-	-	Bolts do not offer enough thread for 77 post nuts; average is a			
STEEL)		551 51	LEL, G		031		2 threads below top of nut - photo. Grout pad at SE corner broken up.			
Bridge Rail/P	osts Coating				7	7				
(Type : GA	LVANIZED)									
Sidewalk					Х	Х				
Girder/Beam										
Cover Plate	9				7	7	Griders viewed from ground.			
Flange					7	7	-			
Web					7	7	-			
Stiffeners					7	7				
Splice					7	7				
Weld					7	7				
Diaphragms/	Cross Frame				7	7				

Alberta Transportation

(Primary Span : RB, 3 Spans, Lengths(m): 17.7-22.6-17         Paint Condition         (Colour Description : )         (Colour Code : )         Touchup Required (Y/N)         No         Bearings         Temperature (deg. C)         9         (Expansion Type : NEOPRENE STRIP BEARING)         (Fixed Type : NEOPRENE STRIP BEARING)         Coating Adequate (Y/N)         No         Functioning (Y/N)         Yes         Deck Underside         Stains (Percent Area)         2         Span Alignment Problems         Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating	Last 7.7, A 7		Explanation of Condition
Paint Condition (Colour Description : ) (Colour Code : ) Touchup Required (Y/N) No Bearings Temperature (deg. C) 9 (Expansion Type : NEOPRENE STRIP BEARING) (Fixed Type : NEOPRENE STRIP BEARING) (Fixed Type : NEOPRENE STRIP BEARING) Coating Adequate (Y/N) No Functioning (Y/N) Yes Deck Underside Stains (Percent Area) 2 Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No Superstructure General Rating Bridge Component Abutments Bearing Seats/Caps (Type : CONCRETE) Backwalls/Breastwalls Wingwalls Piles Paint/Coating		Ident N	Jumber: 40385-01)
(Colour Description : )(Colour Code : )Touchup Required (Y/N)NoBearingsTemperature (deg. C)9(Expansion Type : NEOPRENE STRIP BEARING)(Fixed Type : NEOPRENE STRIP BEARING)Coating Adequate (Y/N)NoFunctioning (Y/N)YesDeck Underside2Stains (Percent Area)2Span Alignment ProblemsVertical (Y/N)Vertical (Y/N)NoHorizontal (Y/N)NoSuperstructure General RatingBridge ComponentAbutmentsBearing Seats/Caps(Type : CONCRETE)Backwalls/BreastwallsVingwallsPilesPiles	7		
(Colour Code : )       Touchup Required (Y/N)       No         Bearings       Femperature (deg. C)       9         (Expansion Type : NEOPRENE STRIP BEARING)       (Fixed Type : NEOPRENE STRIP BEARING)         (Fixed Type : NEOPRENE STRIP BEARING)       Coating Adequate (Y/N)       No         Functioning (Y/N)       Yes       Deck Underside         Stains (Percent Area)       2         Span Alignment Problems       2         Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating       Baridge Component         Abutments       Eackwalls/Breastwalls         Wingwalls       Wingwalls         Piles       Paint/Coating		6	
Touchup Required (Y/N)NoBearings9Temperature (deg. C)9(Expansion Type : NEOPRENE STRIP BEARING)(Fixed Type : NEOPRENE STRIP BEARING)Coating Adequate (Y/N)NoFunctioning (Y/N)YesDeck Underside2Stains (Percent Area)2Span Alignment ProblemsVertical (Y/N)Vertical (Y/N)NoHorizontal (Y/N)NoSuperstructure General RatingBridge ComponentIAbutmentsBearing Seats/Caps(Type : CONCRETE)Backwalls/BreastwallsWingwallsPilesPaint/Coating			Yellow.
Bearings Temperature (deg. C) (Expansion Type : NEOPRENE STRIP BEARING) (Fixed Type : NEOPRENE STRIP BEARING) Coating Adequate (Y/N) No Functioning (Y/N) Yes Deck Underside Stains (Percent Area) 2 Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No Superstructure General Rating Bridge Component Abutments Bearing Seats/Caps (Type : CONCRETE) Backwalls/Breastwalls Wingwalls Piles Paint/Coating			
Temperature (deg. C)9(Expansion Type : NEOPRENE STRIP BEARING)(Fixed Type : NEOPRENE STRIP BEARING)Coating Adequate (Y/N)NoFunctioning (Y/N)YesDeck Underside2Stains (Percent Area)2Span Alignment ProblemsVertical (Y/N)Vertical (Y/N)NoHorizontal (Y/N)NoSuperstructure General RatingBridge ComponentAbutmentsBearing Seats/Caps(Type : CONCRETE)Backwalls/BreastwallsWingwallsPilesPaint/Coating			
(Expansion Type : NEOPRENE STRIP BEARING)(Fixed Type : NEOPRENE STRIP BEARING)Coating Adequate (Y/N)NoFunctioning (Y/N)YesDeck Underside2Stains (Percent Area)2Span Alignment ProblemsVertical (Y/N)Vertical (Y/N)NoHorizontal (Y/N)NoSuperstructure General RatingBridge ComponentAbutmentsBearing Seats/Caps(Type : CONCRETE)Backwalls/BreastwallsWingwallsPilesPaint/Coating	5	5	Curb girders neoprene bearings partially bulging under shoe plate.
(Fixed Type : NEOPRENE STRIP BEARING)         Coating Adequate (Y/N)       No         Functioning (Y/N)       Yes         Deck Underside       2         Stains (Percent Area)       2         Span Alignment Problems       Vertical (Y/N)         Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating         Bridge Component         Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating			Expansion: Abutments.
Coating Adequate (Y/N)NoFunctioning (Y/N)YesDeck Underside2Stains (Percent Area)2Span Alignment Problems2Vertical (Y/N)NoHorizontal (Y/N)NoSuperstructure General Rating8Bridge ComponentAbutmentsBearing Seats/Caps(Type : CONCRETE)Backwalls/Breastwalls9Wingwalls9Piles9Paint/Coating1			Fixed: Pier.
Functioning (Y/N)       Yes         Deck Underside       2         Stains (Percent Area)       2         Span Alignment Problems       Vertical (Y/N)         Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating         Bridge Component       Abutments         Bearing Seats/Caps       (Type : CONCRETE)         Backwalls/Breastwalls       Wingwalls         Piles       Paint/Coating			Masonary plate surfaces deeply pitted. Curb bearings losing primer coating.
Deck Underside   Stains (Percent Area)   Span Alignment Problems   Vertical (Y/N)   No   Horizontal (Y/N)   No   Bridge Component   Abutments   Bearing Seats/Caps   (Type : CONCRETE)   Backwalls/Breastwalls   Wingwalls Piles Paint/Coating			
Stains (Percent Area)       2         Span Alignment Problems       Vertical (Y/N)         Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating       Baindge Component         Abutments       Abutments         Bearing Seats/Caps       (Type : CONCRETE)         Backwalls/Breastwalls       Wingwalls         Piles       Paint/Coating			
Span Alignment Problems         Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating         Bridge Component         Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating	5	5	Deck has many narrow flexural cracks.
Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating         Bridge Component         Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating			Soffit vertical cracks weeping salt water will lead to delamination.
Vertical (Y/N)       No         Horizontal (Y/N)       No         Superstructure General Rating         Bridge Component         Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating			
Horizontal (Y/N)       No         Superstructure General Rating       Image: Component of the structure of the structu			
Superstructure General Rating   Bridge Component   Abutments   Bearing Seats/Caps   (Type : CONCRETE)   Backwalls/Breastwalls   Wingwalls   Piles   Paint/Coating			
Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating	5	5	
Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating			
Abutments         Bearing Seats/Caps         (Type : CONCRETE)         Backwalls/Breastwalls         Wingwalls         Piles         Paint/Coating			
Bearing Seats/Caps (Type : CONCRETE) Backwalls/Breastwalls Wingwalls Piles Paint/Coating	Last	Now	Explanation of Condition
(Type : CONCRETE) Backwalls/Breastwalls Wingwalls Piles Paint/Coating		0	Abute barre manual alightly from already processing
Backwalls/Breastwalls Wingwalls Piles Paint/Coating	6	6	Abuts have moved slightly from skew pressures.
Wingwalls       Piles       Paint/Coating		0	
Piles Paint/Coating	6	6	
Paint/Coating	7	7	
-	Ν	N	
Abutment Stability	Х	X	
,	7	7	
Scour/Erosion	Х	Х	
Piers/Bents			
(Type : PIER-COLUMN)			
Bearing Seats/Caps	8	7	
(Type : CONCRETE)			
(Total Number of Bearing Piles : 0:0)			Two columns each pier.
Pier Shaft/Piles	8	7	
Bracing/Struts/Sheathing	Х	Х	
Nose Plate	Х	Х	
Paint/Coating	Х	Х	
(Colour Description : )			
(Colour Code : )			
Pier Stability	8	7	Concrete slope protection sliding against piers.
Scour	Х	X	
Debris (Y/N) No			
Substructure General Rating	6	6	

		re Usage	
	Last	Now	Explanation of Condition
Grade Separation			
Road Alignment	X	X	
Traffic Safety Features	Х	Х	
Туре			
Slope Protection	5	5	Gaps and wide cracks, ok.
(Type : CONCRETE; CONCRETE)			
Bank Stability	7	7	
Drainage	7	7	
Grade Separation General Rating	7	7	

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Bridge Inspection & Maintenance System (Web 2005)

75337 S-2 Bridge

	_						-				
Inspector Recommendations	Year		Inspector Comments	Depa	Department Comments	ments	-	Target Year	Est. Cost	Cat #	
<b>REPAIR/REPLACE BRIDGE RAIL</b>	2013		Repair grout pad at SE corner.								
<b>GALVANIZE/PAINT BRIDGE RAIL</b>											
RETROFIT BRIDGE RAIL											
SEAL CURBS											
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS											
RESET/ PAINT BEARINGS											
REPAINT SUPERSTRUCTURE											
STRAIGHTEN/REPLACE MEMBERS											
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/EROSION	NO										
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		61.1/61.1	Sufficiency Rating (Last/Now) (%)	v) 70.6/70.6	0.6	Est. Repl. Yr 20	2037	Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection				Depa	Department Comments						
Maintenance Reviewed By				Date			Est	Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)	~										
Proposed Action	2008.01.29	ACP o	2008.01.29 ACP overlay and membrane in 2008. Chip seal South Bound in 2008, North Bound in 2009.	eal South Bou	nd in 2008, 1	North Bound in 2009.					
Previous Inspector's Name	Owen Salava	va	Pre	Previous Assistant's Name	ant's Name						
Next Inspection Date	18-Jul-2014	4	Pre	Previous Inspection Date	tion Date	14-Sep-2011					
Inspection Cycle (Default) (months)	21										
Comment											

			Maintenance Recomme	endations						
Inspector Recommendations	Yea	ar I	Inspector Comments	Department (	Commer	nts		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	201	13 F	Repair grout pad at SE corner.	Defer until ne						
GALVANIZE/PAINT BRIDGE RAIL			<u> </u>							
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSIO	NC									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow) 61. <sup>-</sup>	1/61.1	Sufficiency Rating (Last/Now) (%)	70.6/70.6	Est	t. Repl. Yr	2037	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments	Curren	ntly scheduled	for upgra	de in 2025. DA	A	
Maintenance Reviewed By	Darron Ahl	lstedt		Date	18-Apr	-2013	E	Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)	Y									
Proposed Action 2	2008.01.29	9 ACP	overlay and membrane in 2008. Chip seal	South Bound in 2	2008, No	orth Bound in 2	2009.			
Previous Inspector's Name	Owen Sala	ava	Previo	us Assistant's Na	me					

Bridge Inspection & Maintenance System (Web 2005)

Next Inspection Date	18-Jul-2014	Previous Inspection Date	14-Sep-2011
Inspection Cycle (Default) (months)	21		
Comment			