							Bridge	insne	ction							
Bridge File Numl	ber	75051 S	-2 Bridge				Jilago		m Type			PSR				
Year Built/Year	001	1960/19							Lot No. 2							
Supstr									Inspector Name			Garry Roberts				
Bridge or Town I	Name	CAYLEY	<u>′</u>						Inspector Class		BR CLS A					
Located Over		CPR							Assistant Name							
Located On		2:10 L1	31.593					Ass	sistant C	lass						
Water Body Cl./	Year								pection			26-Jan-2010)			
Navigabil. Cl./Ye	ar								Data Entry By Kelsey Roberts							
Legal Land Loca	ition	NE SEC	6 TWP 1	7 RGE 2	28 W4M				Data Entry Date			27-Feb-2010				
Longitude, Latitu	ıde	-113:49:	49, 50:24	:21					Reviewer Name			Tom Carey				
Road Authority		Alberta -	Fransport	ation (Al	T)				Review Date		01-Feb-2010)				
Contract Main. Area CMA27								ot. Revie	ewer N	Name	Lorenz Bohr	ert				
Clear Roadway/Skew 11.6 / -45 deg. (LHF)								Dept. Review Date		02-Mar-2010						
AADT/Year 10,500 / 2008 (A)							low-Up									
Road Classificat	ion	RFD-412	2.4-130						•	Ĭ						
Detour Length (kg		1			1											
Allowable Load (t): Sin	gle CS	1 28		Semi	С	S2 49			Train	CS	3 62		> On Critic	cal Spa	ns
Design Loading:		HS	20											> Primary		
Design Loading.		1102	20			P	osting	Inform	mation					> i iiiiai y	Оран	
Required Vert. C	learan	ce Postir	na (m)				og	7	i ation							
Posted Vertical (No												
	NB		ridge (m)		In Adva	nce	(Y/N)	No	Lane	SB	C	n Bridge (m)		In Advance	(Y/N)	No
Remarks			abandone				(')					3-()			(')	
Required Load F				Single					Semi			Truck Train				
Posted Loading				Single					Semi					k Train		
Posted:	Lane	NB		At June	tion (Y/	Y/N)				In Advance (Y/N)			At Bridge (Y/N)			
Posted:	Lane	SB		At Junc			No		In Adva			No		ridge (Y/N)	No	
Remarks	Not re	eq.			,					`	. ,		1	5 ()		
Hazard Marker A	At Bride	ge (Y/N)	No													
Remarks	•	5 - (· ,														
Other Sign Type	s		CURVE	-												
						U	tilities	Loca	ted at)							
Utility Attachmer	nts T	ELEPHO	NE UTILI	TIES-PH	IONE L	INE										
Telephone	WEST	SIDE						Ga	S							
Power	· · · · · · · · · · · · · · · · · · ·						Mu	nicipal								
Others	FIBRE	OPTICS	S @ WES	T R/W				Pro	blem (Y	/N)	No					
Remarks																
							Appro									
					L	_ast			olanatio							
Horizontal Alignr						5	5	Cui	Curves both ends and @ crest of vertical curve.							
Vertical Alignme	nt					5	5									
Roadway Width	(m)		11.600													
Approach Bump						5	6									
Guardrail (Y/N)			Yes					Wrong lap at NW and NE.								
Guardrail						6	4	Not attached to bridge. Insufficient posts - none @ se								
Length (m)			76.000								3.5					
Current Standa	ard (Y/	N)	No													
Termination Ty	/ре		TURNE ENDS	D DOW	N											
Drainage						7	7									
Approach Road	l Gene	eral Ratin	g			5	5									

					Supers	tructure
Bridge Comp	onent					Explanation of Condition
(Primary Spa	n : PO, 3 Spa ı	ns, Length	s(m): 18.6-23.	2-18.6, A	-Ident I	Number:)
Special Feat	ures					
Special Featu	ıre				X	
(Type:)						
Special Featu	ıre				X	
(Type:)						
Wearing Surf	ace/Deck Top	Detail Ratir				
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0		0	
Now	0.0	0.0	0.0		0.0	
- CONVEN	/pe : CONCRE TIONAL CHIP	TE - UNKN SEAL CO	IOWN POLYN	5 IER OVE	RLAY	CHIP SEAL OVER TOP OF EPOXY.
(Thickness	(mm) : 50) ection Problem	n No				
(Y/N)		1.0				
Deck Top				N	N	
Deck Rideabi	lity			5	6	
Deck Joints				3	3	Gaps estimated due to partial fill with chipcoat. Active leakage @
Temperatur	re (deg. C)	-16				piers
(Expansion	Type : GLAN	D (WABO-I	MAUER, TRAN	NSFLEX,	ETC))	
(Fixed Type	e:)					
Gap Size (r	nm)	Ga	Location			
60		N. a	abut			_
50		N. ;	oier			
40		S. բ				
40		S. a	but			
Deck Drainag	je			4	5	Minor erosion under SW drain.
Drains Clog	ged (Y/N)	No				
Curbs/Median	า			3	3	BROKEN @ WEST END NORTH PIER CURB.
(Curb Type	: Standard)					Patches cracked, and spalled Scaling @ SW @ top
Scaling (Pe	rcent Area)	5				
D:1 D:1				4		Curb spalled @ east @ exterior @ center span
Bridge Rail				4	4	Rail bent up @ Sp.2 west over P2. 3 A/B nuts not fully engaged.
	EL BRIDGE	IUBE)		7	1 4	, 55
Bridge Rail P		OT OTEL		7	4	
	ST STEEL;PO	SISIEEL		4		10% CORROSION.
Bridge Rail/P				4	4	
(Type : PAI	IN I)				V	
Sidewalk				X	X	
Girder Detail	Ratings					
	N (count)	1 (count)	2 (count)	3 (co.	unt)	
Last	0	0	0		0	
Now	0	0	0		0	
Girders				5	5	0.3 mm wide cracks in patching
Cracking (Y	′/N)	Yes				material of fire damaged girders at west end of north pier.
	ercent Area)	0				Wood ond or north pion.
(Number Of C	Girders : 21)					

			Suners	tructure					
Bridge Component				Explanation of Condition					
(Primary Span : PO, 3 Spans, L	 _enaths(m): 18.6-23.2			· •					
Diaphragms/Cross Frame	<u> </u>	5	6	15% rusted surface, superficial					
Bearings		5	5	North abut &					
Temperature (deg. C)	2			Exterior bearing anchor bolts are tied with steel straps over piers.					
(Expansion Type : ROCKER I	<u> </u>			·					
(Fixed Type : ROCKER BEAF	RING)			Corrosion @ all exterior and north bearing - 90%					
Coating Adequate (Y/N)	No								
Functioning (Y/N)	Yes								
Deck Underside		5 4		long. cracks between girders med width					
Stains (Percent Area) 2				Some efforescence @ crk @ deck underside @ center span Spalled at SE deck blockout. Active staining at Sp.2 near P1. Scaling over piers at exterior at deck					
Span Alignment Problems									
Vertical (Y/N)	No								
Horizontal (Y/N)	No								
Superstructure General Ratin	g	5	4						
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments			111011	ZAPIGITATION OF CONTRACT					
Bearing Seats/Caps		5	6						
(Type : CONCRETE)									
Backwalls/Breastwalls		7	7						
Wingwalls		6	6						
Piles		N	N						
Paint/Coating		X	Х						
Abutment Stability		8	8						
Scour/Erosion		Х	Х						
Piers/Bents									
(Type : PIER-COLUMN)				1mm wide vertical crack @ both ends of south cap and spall crack @					
Bearing Seats/Caps		4	4	west end of north cap. 6 mm wide					
(Type : CONCRETE)									
(Total Number of Bearing Piles	: 5:5)								
Pier Shaft/Piles		7	7						
Bracing/Struts/Sheathing		X	X						
Nose Plate		Х	Х						
Paint/Coating		3	3	Failing at ends of both piers @ leakage areas.					
(Colour Description :)									
(Colour Code :)									
Pier Stability		8	7						
Scour		X	Х						
Debris (Y/N)	No								
Substructure General Rating		4	4						

	5	Structu	re Usage
	Last	Now	Explanation of Condition
Grade Separation		_	
Road Alignment	X	X	Railway is Abandoned
Traffic Safety Features	X	X	
Туре		_	
Slope Protection	5	5	
(Type:)		_	
Bank Stability	8	7	
Drainage	4	5	Erosion @ deck drains @ south.
Grade Separation General Rating	5	5	

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance Recomm	endations					
Inspector Recom	mendations	Year	Inspector Comments	Department Comm	nents		Target Year	Est. Cost	Cat #
REPAIR/REPLAC		2010	@ west- straighten 1m length						
GALVANIZE/PAI	NT BRIDGE RAIL								
REPAIR/SEAL C	URBS	2014	Approx. 15m2 curb spalls.						
PATCH DECK									
SEAL DECK									
OVERLAY DECK	(2014	HP concrete overlay (if not replaced)						
REPAIR/REPLACE DECK JOINTS		2010	repair leakage at all joints.						
RESET/ PAINT BEARINGS		2014	paint exteriors						
WASHING									
SHOTCRETE RE	PAIRS								
REPAIR ABUTM	ENT SCOUR/EROSIO	N							
PLACE ADDITIO	NAL RIP RAP								
REMOVE DRIFT	ACCUMULATION								
OTHER ACTION		2014	Replace all deck joints (if bridge not replace	ed)					
OTHER ACTION		2010	Repair pier spall 1m2- seal pier cracks.						
OTHER ACTION		2014	PAINT PIER CAPS 20L CAPSEAL A50, se caps	al					
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)		v) 50.0/44	Sufficiency Rating (Last/Now) (%)	53.2/50.2	Est. Repl. Yr	2025	Maint. Red	qd. (Y/N)	Yes
Special			no as bridge sould be eliminated. Do only						
Comments for	Determine highway re necessary maint. unti (G.Roberts Jan.26/10	ealignment pla I replaced. Re))	ns as bridge could be eliminated. Do only hab will be necessary if bridge is not replaced	Department Comments					
Comments for Next Inspection Maintenance Rev	(G.Roberts Jan.26/10	ealignment pla I replaced. Re I)	hab will be necessary if bridge is not replaced	Department Comments Date		ļ.	Estimated Total	0	
Comments for Next Inspection	(G.Roberts Jan.26/10	alignment pla I replaced. Re I)	hab will be necessary if bridge is not replaced				Estimated Total	0	
Comments for Next Inspection	viewed By Ferm Strategy	l replaced. Re	hab will be necessary if bridge is not replaced			ļı	Estimated Total	0	
Comments for Next Inspection Maintenance Rev Proposed Long-T	viewed By Ferm Strategy	alignment pla I replaced. Re	hab will be necessary if bridge is not replaced				Estimated Total	0	
Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra	viewed By Ferm Strategy am (Y/N)	Fom Carey					Estimated Total	0	
Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action	viewed By Ferm Strategy am (Y/N) or's Name))	Previo	Date	14-Dec-200		Estimated Total	0	
Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecton Next Inspection D	viewed By Ferm Strategy am (Y/N) or's Name Date 2	Γom Carey	Previo	Date Dus Assistant's Name	14-Dec-200		Estimated Total	0	