									1						
Bridge File Num	her	75051 N	1 Bridge			Br	idge Ir	Form			PSR				
Year Built/Year	Dei	1960/196	· · · ·								2				
Supstr		1900/190						Lot No. Inspector Name							
Bridge or Town	Name	CAYLEY				F			ctor N		-	Garry Roberts			
Located Over		CPR							tant N		BR CL3 A	BR CLS A			
Located On		2:10 R1	31.644						tant C						
Water Body Cl./	Year								ction [		26-Jan-2010	<u> </u>			
Navigabil. Cl./Ye							Entry I		Kelsey Robe	-					
Legal Land Loca	ation	NE SEC	6 TWP 1	7 RGE 2	8 W4M				Entry	-					
Longitude, Latitu	ude	-113:49:4					entry i wer N		Tom Carey	27-Feb-2010					
Road Authority		Alberta T	)				wer is		01-Feb-2010	<u>ີ</u>					
Contract Main. A	Area	CMA27								-					
Clear Roadway/							Dept. Reviewer Name Dept. Review Date				02-Mar-2010				
AADT/Year		10,500 /	2008 (A)					· · ·	w-Up E		02-10101-2010	<u>,</u>			
Road Classificat	tion	RFD-412	2.4-130						-0p E	, y					
Detour Length (I	km)	1													
Allowable Load	(t): Sin	gle CS1	28		Semi	CS2	2 49		-	Train	CS3 62	> On Cr	itical Spans		
												>Critica			
Design Loading:		HS2	20			D	dire	- (				> Prima	ry Span		
Poquirod Vart (	Noorea	oo Dootin	a (m)			Pos	sting Ir	nforma	ation						
Required Vert. C			g (m)	Nic											
Posted Vertical	1		ridere (me)	No		()	(//)		Lana	00					
1	NB Not ro		ridge (m)		n Advano	ce ( r	(/IN)		Lane	SB	On Bridge (m)	In Advan			
Remarks		q Over a	abondone						or:			Truck Train			
Required Load F		(t)		Single		-			Semi			Truck Train			
Posted Loading		ND		Single	• • • • • • • • •				Semi	() ( )		Truck Train			
Posted:	Lane	NB			ion (Y/N	·	No			nce (Y/I		At Bridge (Y/N)	No		
Posted:	Lane	SB		At Junct	ion (Y/N	)		Ir	n Adva	nce (Y/I	N)	At Bridge (Y/N)			
Remarks	Not re		N												
Hazard Marker A	At Bridg	ge (Y/N)	No												
Remarks															
	_			_											
	es		CURVE	<u>-</u>		1144	11.00- <i>(</i> 1								
Other Sign Type			CURVE			Utili	ities (L	_ocate	d at)						
Other Sign Type Utility Attachmer	nts	Dour	CURVE			Utili	ities (L		d at)						
Other Sign Type Utility Attachmer Telephone		Row	CURVE	-		Utili	ities (L	Gas							
Other Sign Type Utility Attachmer Telephone Power	nts West			<u>-</u>		Utili	ities (L	Gas Munic	cipal	///////////////////////////////////////					
Other Sign Type Utility Attachmer Telephone Power Others	nts West	Row optics We				Utili	ities (L	Gas Munic		/N) Nc					
Other Sign Type Utility Attachmer Telephone Power Others	nts West			<u> </u>				Gas Munic Proble	cipal em (Y/	/N) No	, , , ,				
Other Sign Type Utility Attachmer Telephone Power Others	nts West					Α	pproa	Gas Munic Proble	cipal em (Y/ ad						
Other Sign Type Utility Attachmer Telephone Power Others Remarks	Vest Fiber				La	Α		Gas Munic Proble ch Roa Expla	cipal em (Y/ ad anatio	n of Col		cal curve.			
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align	Tiber of the second sec			E	La	A	pproa Now	Gas Munic Proble ch Roa Expla	cipal em (Y/ ad anatio	n of Col	ndition	cal curve.			
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Alignme	ment ment		est Row		La	A Ist 5	pproa Now 5	Gas Munic Proble ch Roa Expla	cipal em (Y/ ad anatio	n of Col	ndition	cal curve.			
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width	Tiber of the second sec					A Ist 5 5	pproa Now 5 5	Gas Munic Proble ch Roa Expla	cipal em (Y/ ad anatio	n of Col	ndition	cal curve.			
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump	Tiber of the second sec		est Row			A Ist 5	pproa Now 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both	n of Cor n ends &	ndition at crest of vertion				
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N)	Tiber of the second sec		est Row			<b>A</b> 1st 5 5 5	oproa Now 5 5 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both	n of Cou n ends &	ndition at crest of vertion	cal curve.	at NE. Collision		
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail	Tiber of the second sec		est Row 11.600 Yes			A Ist 5 5	pproa Now 5 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both g lap a ige at s	n of Con ends &	ndition at crest of vertion		at NE. Collision		
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	ment ment (m)	optics We	est Row 11.600 Yes 76.000			<b>A</b> 1st 5 5 5	oproa Now 5 5 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both g lap a	n of Con ends &	ndition at crest of vertion		at NE. Collision		
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Standa	nts West Fiber of ment (m)	optics We	est Row 11.600 Yes 76.000 No			<b>A</b> 1st 5 5 5	oproa Now 5 5 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both g lap a ige at s	n of Con ends &	ndition at crest of vertion		at NE. Collision		
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	nts West Fiber of ment (m)	optics We	est Row 11.600 Yes 76.000 No			<b>A</b> 1st 5 5 5	oproa Now 5 5 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both g lap a ige at s	n of Con ends &	ndition at crest of vertion		at NE. Collision		
Other Sign Type Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Standa	nts West Fiber of ment (m)	optics We	est Row 11.600 Yes 76.000 No TURNE		La La I I I I I I I I I I I I I I I I I	<b>A</b> 1st 5 5 5	oproa Now 5 5 5	Gas Munic Proble <b>ch Roa</b> <b>Expla</b> Curve	cipal em (Y/ ad anation es both g lap a ige at s	n of Con ends &	ndition at crest of vertion		at NE. Collision		

						tructure
Bridge Com						Explanation of Condition
		ns, Length	s(m): 18.6-23.2	2-18.6, A∙	-Ident	Number: )
Special Feat						
Special Featu	ure				X	-
(Type : )						-
Special Featu	ure				X	-
(Type : )						
Wearing Surf	ace/Deck Top	Detail Ratin	ngs			
	N (%)	1 (%)	2 (%)	3 (%)		_
Last	0	0	0		0	_
Now	0.0	0.0	0.0	0	0.0	
Wearing Surf	ace			6	6	CHIP SEAL OVER EPOXY.
(Material Ty - CONVEN	/pe : CONCRI TIONAL CHIP	ETE - UNKN SEAL CO	IOWN POLYM AT)	ER OVE	RLAY	
(Thickness	(mm) : <b>50</b> )					
Lateral Conn (Y/N)	ection Probler	n No				
Deck Top				N	N	
Deck Rideab	ility			5	5	
Deck Joints				3	3	Leaking actively S pier & N abut
Temperatu	re (deg. C)	-16				joints. Ăll joints partially filled with chipcoat.
(Expansion	Type : GLAN	ID (WABO-I	AUER, TRAN	SFLEX,	ETC))	
(Fixed Type	e:)					Approx. 2 lin. M spalling at N abut paving lip and 5 lin. M at S abut.
Gap Size (r	nm)	Ga	b Location			
55		N. (	abut			
65		N.	pier			
60		S. (	oier			
55			abut			
						-
Deck Drainag	je			4	4	NE Drain detached- appears all joints leak.
Drains Clog	ged (Y/N)	No				SOME DITCH EROSION 200 mm DP @ NE DECK DRAIN.
Curbs/Media	n			4	4	Spalling at post base anchors. Random wide cracks.
	: Standard)			·		
	ercent Area)	10				
Bridge Rail	loon / loog	10		5	5	bent rails but functional.
<b>U</b>	DGE TUBE;S				5	
Bridge Rail P				N	4	2 A/B nuts not fully engaged. Spalling at several post anchors.
(Type : PO					-	
Bridge Rail/P				4	4	5% CORROSION
(Type : PAI						
Sidewalk	<u>N1)</u>			X	X	
Girder Detail	Ratings					
	N (count)	1 (count)	2 (count)	3 (cou	unt)	
Last	0	0	0		0	
Now	0	0	0		0	
Girders				5	5	RANDOM CRACKS @ WEST EXTERIOR
Cracking (Y	′/N)	Yes				CENTRE SPAN @ PREVIOUSLY PATCHED AREA.
	ercent Area)	0				1
(Number Of (						1

Alberta Transportation

			Supers	tructure					
Bridge Component		Last	Now	Explanation of Condition					
(Primary Span : PO, 3 Spans, I	_engths(m): 18.6-2	3.2-18.6, A	-Ident	Number: )					
Diaphragms/Cross Frame		7	7	5% rusted - superficial.					
Bearings		6	6	Exterior bearing are tied with steel					
Temperature (deg. C)	-16			straps over piers. Corrosion at exterior bearings.					
(Expansion Type : ROCKER	BEARING)			Conosion at extend bearings.					
(Fixed Type : ROCKER BEAI	· · · ·								
Coating Adequate (Y/N)	No								
Functioning (Y/N)	Yes								
Deck Underside		4	4	Long. Cracks between girders-med width					
Stains (Percent Area)	2		· · ·	Spalled @ south pier @ west under curb					
Span Alignment Problems	_								
Vertical (Y/N)	No								
Horizontal (Y/N)	No			-					
Superstructure General Ratin		4	4						
Superstructure General Ratin	g	4	4						
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
Bearing Seats/Caps		4	5						
(Type : CONCRETE)									
Backwalls/Breastwalls		6	6						
Wingwalls		7	6						
Piles		N	N						
Paint/Coating		X	Х						
Abutment Stability		8	7						
Scour/Erosion		X	Х						
Piers/Bents									
(Type : <b>PIER-COLUMN</b> )				Wide cracks @ east end of south pier					
Bearing Seats/Caps		4	4						
(Type : CONCRETE)			· · ·						
(Total Number of Bearing Piles	: 5:5)								
Pier Shaft/Piles		7	7						
Bracing/Struts/Sheathing		X	X						
Nose Plate		X	X						
Paint/Coating		3	4	Peeled @ pier ends					
(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	Х	Х	Railway is abandoned
Traffic Safety Features	Х	Х	
Туре			
Slope Protection	5	6	
(Type:)			
Bank Stability	8	7	
Drainage	5	5	Some minor erosion @ NE
Grade Separation General Rating	5	6	

Alberta Transportation

					Mainte	enance Recommen	lations						
Inspector Recomm	mendations	Ye	ear	Inspecto	r Comments		Department Com	ment	S		Target Year	Est. Cost	Cat #
REPAIR/REPLAC	E BRIDGE RAIL												
GALVANIZE/PAIN	NT BRIDGE RAIL												
REPAIR/SEAL CURBS		20	014	Approx. 8	5m2								
PATCH DECK													
SEAL DECK													
OVERLAY DECK		20	014	HP conc	rete overlay (if bri	dge not replaced)							
REPAIR/REPLAC	E DECK JOINTS	20	010	repair lea spalls.	akage - Repair ap	prox. 2m2 joint							
<b>RESET/ PAINT B</b>	EARINGS	20	)12	Blast and	d paint bearings.								
WASHING													
SHOTCRETE RE	PAIRS												
REPAIR ABUTME	ENT SCOUR/EROSIO	NC											
PLACE ADDITION	NAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
OTHER ACTION		20	010	Repair N	IE Drain								
OTHER ACTION		20	010	Patch de	eck underside @ V	N @ S pier-0.1m3OH	1						
OTHER ACTION		20	)14	Replace	all deck joints (if l	bridge not replaced)							
OTHER ACTION		20	)14	Seal abu	it & pier cracks an	nd paint 20L.							
OTHER ACTION													
	tion Rating (Last/No	ow) 44	4.4/44.4	4	Sufficiency Rat (%)	ing (Last/Now)	50.5/51.6	Est.	Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Structural Condi	Determine highway	realigment	t plans	as bridge	(%) e could be elimina		Department	Est.	Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Structural Condi (%) Special Comments for	Determine highway necessary maint. ur Jan. 26/10)	realigment	t plans	as bridge	(%) e could be elimina	ited. Do only	Department	Est.	Repl. Yr		Maint. Red		Yes
Structural Condi (%) Special Comments for Next Inspection	Determine highway necessary maint. ur Jan. 26/10) iewed By	realigment	t plans	as bridge	(%) e could be elimina	ited. Do only	Department Comments	Est.	Repl. Yr				Yes
Structural Condi (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T	Determine highway necessary maint. ur Jan. 26/10) iewed By erm Strategy	realigment	t plans	as bridge	(%) e could be elimina	ited. Do only	Department Comments	Est.	Repl. Yr				Yes
Structural Condi (%) Special Comments for Next Inspection Maintenance Rev	Determine highway necessary maint. ur Jan. 26/10) iewed By erm Strategy	realigment	t plans	as bridge	(%) e could be elimina	ited. Do only	Department Comments	Est.	Repl. Yr				Yes
Structural Condi (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra	Determine highway necessary maint. ur Jan. 26/10) iewed By erm Strategy um (Y/N)	realigment	t plans d. Reh	as bridge	(%) e could be elimina	ited. Do only replaced. (G Roberts	Department Comments	Est.	Repl. Yr				Yes
Structural Condi (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action	Determine highway necessary maint. ur Jan. 26/10) iewed By erm Strategy um (Y/N)	realigment til replaced	t plans d. Reh	as bridge	(%) e could be elimina	ted. Do only replaced. (G Roberts	Department Comments		Repl. Yr				Yes
Structural Condi (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecto Next Inspection D	Determine highway necessary maint. ur Jan. 26/10) iewed By erm Strategy um (Y/N) pr's Name pate	realigment til replaced	t plans d. Reh	as bridge	(%) e could be elimina	ted. Do only replaced. (G Roberts	Department Comments Date Assistant's Name						Yes