						E	Bridge I	nspe	ction							
Bridge File Num	9 -1 Bridge					For	Form Type			PSR						
Year Built/Year Supstr							No.			1 Carry Pohorte						
Bridge or Town Name CALGAR			ARY - MCKNIGHT BOULEVARE				D		Inspector Name Inspector Class			Garry Roberts				
Located Over 2:15 R1 3			38.801;2:15 L1 38.896;RAMP 4088-					<u> </u>	Assistant Name			BR CLS A				
Located On		1 A	2 R1 0 32	2 R1 0.323;10250:02 L1 0.332					Assistant Class							
Water Body Cl./	/oor	10200.0	21(10.02	.0,1020	0.02 L1	0.002		Inspection Date			09-Jan-2013					
Navigabil. Cl./Ye								Dat	a Entry	Ву		Lauren Korte				
Legal Land Loca		SW SE	2 TWP 2	5 RGE	1 \//51	1		Data Entry Date			23-Jan-2013					
Longitude, Latitu			30, 51:05	2 TWP 25 RGE 1 W5M				Rev	iewer N	lame		Tom Carey				
Road Authority	iuc		Transport		.IT)			Review Date			17-Jan-2013					
Contract Main. A	rea		OOT/STO	•	,			Dep	t. Revie	wer N	lame	Tim Davies				
Clear Roadway/		23.2 /	001/010					Dep	t. Revie	w Dat	te	25-Jan-2013	1			
AADT/Year	OKCW		2001 (E)					Foll	ow-Up E	Зу						
Road Classificat	ion	RLU-20	` ,					1								
Detour Length (F		10	0 100					1								
Allowable Load (ĺ	1			Sem	i				Train				> On Critical Spans		ıs
														>Critical N	/lember	
Design Loading:		HS	20											> Primary	Span	
Degratined Vert C	No o no n	as Dosti	- c. (m)	LINDE	'D. 0 I 4		osting I		nation							
Required Vert. C					R: 2 L1	1 5.5111	i, Z KT	5.1m								
Posted Vertical (Yes	In Andr		/\//NI\							Lin A altriana	- ()//NI)	
	NB		Bridge (m)		In Adv		(Y/IN)		Lane	SB	U	n Bridge (m)	5.4	In Advance	€ (Y/IN)	
Remarks			pulled thre			gn.			o :				- .	- ·		
Required Load F		Ι (τ)		Single			20.0		Semi		47.0		k Train			
Posted Loading		ED		Single		//N I)	30.0		Semi In Advance (Y/N)		47.0		Train	63.0		
Posted:	Lane	EB WB		At Junction (Y/N)			No			ance (Y/N)		No		idge (Y/N)	No No	
Remarks	Lane		22 ED @ #	At Junction (Y. graph of the file:77201 to W.			No		III Auva	ance (Y/IN)	Yes	Al DI	idge (Y/N)	INO	
Hazard Marker A			No	ile.//Z	OT LO VV											
Remarks	W Dila	gc (1/1 1)	140													
Other Sign Type			40 KM/l	OUTE	MER	GF										
Outlot Olgit Type			10 14(1)	Utilities (L												
Utility Attachmer	nts								ioa ai,							
Telephone								Gas	 S							
Power	At SW	/ & West	pier & abı	abut. Underside deck lighting.				nicipal		Manho	Manhole at West & East at median.					
Others		standard	•						Problem (Y/N) No							
Remarks	Temp	power c	able at SV	V and N	IW.				,							
							Appro									
						Last	Now		lanatio	n of C	Condit	tion				
Horizontal Aligni						5	5		ramps. 27.							
Vertical Alignment					5	5	Rar	np grad Ige on c								
Roadway Width	(m)		26.000													
Approach Bump				4	6											
Guardrail (Y/N)			Yes					Cor	ncrete pa	arapet	ts.	المدالة العامات المسا	_4			
Guardrail						4	4	4 sp 2 at	4 spalls at North East and South West. 2 at each.							
Length (m)			65.000													
Current Standa	ard (Y/	N)	Yes													
Termination Type TURNDOWN				OWN												
Drainage						7	7									

					approa	nch Road				
				Last	Now	Explanation of Condition				
Approach Road General Rating					5					
Bridge Com	nonont				Now	Explanation of Condition				
	an : PB, 2 Spa	ne Longthe/	m\· 51 5_51 3			· ·				
Special Fea		iis, Lenguis(111). 31.3-31.2	., A-Idelli	Num					
Special Feat				5	5	North side @ West span.				
•	RGE SIGN PA	NFI \				Notifi side & West spain.				
Special Feat		WEL)			X					
(Type:)	idio									
	face/Deck Top	Detail Rating	<u> </u>							
Wearing our	N (%)	1 (%)	2 (%)	3 (%)						
Last	0	0	0		0					
Now	0.0	0.0	0.0		.0					
Wearing Sur		0.0	0.0	7	7					
	ype : POLYM	FR MODIFIED) ACP)							
	s(mm) : 50)		, AOI)							
	nection Probler	m No								
(Y/N)	1001101111100101	1110								
Deck Top				N	N	Paved.				
Deck Rideab	oility			7	7					
Deck Joints				3	3	Parapet cover plates have few bolts missing or loose.				
Temperatu	ure (deg. C)	-3				Joint seal torn at East abutment at 2nd E/B lane from median.				
(Expansion	n Type : GLAN	ID (WABO-M	AUER, TRAN	SFLEX,	ETC))	Paving lip broken at West abutment at 1st lane E/B at median at the				
(Fixed Typ	oe:)					approach side.				
Gap Size ((mm)	Gap	Location			Extrusion is bent and disbanded.				
50		E abı	ut			Extrasion is bent and dispanded.				
65		W ab	ut							
Deck Draina	ige			5	4	Staining @ deck.				
Drains Clo	gged (Y/N)	No				Underside between structures. Seal @ joint between structures - is failed.				
Curbs/Media	an			4	4	Parapets-corrosion, scaling & cracks @				
	e : JERSEY/F	SHAPE)				isolated low cover rebar - Worst at South East. Corrosion & some spalls at median.				
	ercent Area)	2				Tops have loose and broken parging at North.				
Bridge Rail				Х	Х					
(Type:)				, ,	-,,					
Bridge Rail F	Posts			X	X					
(Type:)				,						
Bridge Rail/Posts Coating					Х					
(Type:)										
Sidewalk					Х					
Girder Detail	I Ratings									
		1 (count)	2 (count)	3 (count)		Sp.1-G4 has spalls over SB merge lane and over West median both				
	N (count)	i (count)			,	The state of the s				
Last		,	` '			from weep tube drainage.				

			Supers	tructure				
Bridge Component		Last		Explanation of Condition				
(Primary Span : PB, 2 Spans,	Lengths(m): 51.5			_				
Girders	 	3	3	Patched at South West.				
Cracking (Y/N) Yes				Minor high load damage at South Fast				
Spalling (Percent Area) 1				Medium width long cracks at fascia at corners. Narrow intermittent longitudinal cracks at u/s of girders. Efflorescence and leakage at bottom of 2nd girder from North at N/B				
(Number Of Girders : 8)	'			Efflorescence and leakage at bottom of 2nd girder from North at N/B				
,		7	7	lanes of highway 2 at Span 2.				
Diaphragms/Cross Frame		7	7					
Bearings		N	N	Recessed & not seen due to expanded				
Temperature (deg. C)				metal. Integral @ pier.				
(Expansion Type :)				integral © pion				
(Fixed Type :)								
Coating Adequate (Y/N)								
Functioning (Y/N)								
Deck Underside		3	3	Corrosion @ deck exterior.				
Stains (Percent Area)	2			Spalled at South East exterior over head slope. Surface spall @ NW over S/B ramp lanes - with loose concrete. Spalled areas at weep drains.				
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rati	ng	3	3					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments		Luot	11011	Explanation of containon				
Bearing Seats/Caps		6	6					
(Type : CONCRETE)		0						
Backwalls/Breastwalls		6	6					
Wingwalls		3	3	Spalling at NW, NE, SE.				
Piles		N	N	Buried.				
Paint/Coating		4	4	Scaling and staining at all wings.				
Abutment Stability		7	7					
Scour/Erosion		Х	X					
Piers/Bents								
(Type : PIER-COLUMN)				Integral @ pier.				
Bearing Seats/Caps		8	7					
(Type : CONCRETE)								
(Total Number of Bearing Piles	s · 0)							
Pier Shaft/Piles	. . .	8	7					
Bracing/Struts/Sheathing		X	X					
Nose Plate			X					
		X						
Paint/Coating		7	X					
(Colour Description :)								
(Colour Code :)								
Pier Stability		8	8					
Scour		Х	Х					
				1				

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Debris (Y/N)	No								
Substructure General Rating			6						
		\$	Structu	re Usage					
		Last	Now	Explanation of Condition					
Grade Separation			_						
Road Alignment			6	Curves.					
Traffic Safety Features			5	Cable barrier and metal barrier.					
Туре	Barrier			Minor damage at solid steel barrier.					
Slope Protection		5	5	Settled 150mm at wings at SW.					
(Type : CONCRETE; CONCRE	ETE)			Away 50mm at West.					
Bank Stability			7						
Drainage			6						
Grade Separation General Rati	ng	5	6						

77199 -1 Bridge

			Maintenance Recomme	endations					
Inspector Recommendations	Year	Inspect	or Comments	Department Co	omments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Patch s	palls at North East and South West ch concrete barriers approx 3m2.						
GALVANIZE/PAINT BRIDGE RAIL									
SEAL CURBS	2013	Remove tops at	e broken and loose parging on parap north. Patch at South East approx 5r	et n2.					
PATCH DECK			• •						
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS	2013	Replace	nedian deck joint neoprene seal. e both abutment joints. Vest abutment paving lip at E/B lanes 0.5m2.	S					
RESET/ PAINT BEARINGS									
WASHING									
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION									
OTHER ACTION	2013	Ditch in	power cable.						
OTHER ACTION	2013	Blast ch	nip and patch deck underside. depth at SE and NE wings (approx Blast and recoat all wings.						
OTHER ACTION	2013		4m sign at S/B highway 2 on bridge.						
OTHER ACTION	2013	Patch g	irder spalls Sp.1-G4 (1m2) and seal le Sp.2-G3.						
OTHER ACTION	2013	Extend	weep drains.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	50.0/50	0.0	Sufficiency Rating (Last/Now) (%)	44.2/47.2	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			, ,	Department Comments					
Maintenance Reviewed By				Date		F	Estimated Tota	I 0	

Alberta Transportation	Bridge Inspection & Maintenance System (We	eb 2005) 771	77199 -1 Bridge			
Proposed Long-Term Strategy						
On 0 V Due man (V/N)						
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Tom Carey	Previous Assistant's Name				
Next Inspection Date	09-Oct-2014	Previous Inspection Date	21-Apr-2011			
Inspection Cycle (Default) (months)	21					

Comment