Bridge Inspection																
Bridge File Num	ber	75931 -1	Bridge					For	Form Type		SG					
Year Built/Year 1966/1966 Supstr							No.	•		1						
Bridge or Town Name CALGARY								Inspector Name		Garry Roberts						
Located Over 1:08 R1 8.183;1:08 L1 8.183					33	-			Inspector Class			BR CLS A				
Located On				9;25122:0		0.088	 8		istant N							
Water Body Cl./Year						-			istant C							
Navigabil. Cl./Ye									pection I			14-Feb-2012				
Legal Land Loca		SW SEC	34 TWP	24 RGE	3 W5N	5M			a Entry	-		Lauren Korte				
Longitude, Latitu	ıde	-114:21:0	02, 51:05	:17					a Entry			13-Mar-2012	<u> </u>			
Road Authority		Alberta T	ransport	ation (AIT				Reviewer Name Review Date			Tom Carey 21-Feb-2012					
Contract Main. Area CMA28					•			-			lomo	Tim Davies	<u>-</u>			
Clear Roadway/Skew 9.1 /									ot. Revie			22-Mar-2012				
AADT/Year 1,500 / 201			010 (E)						ow-Up I		ıe	22-IVIAI-2012	<u>-</u>			
Road Classificat	ion	RAD-412	2.4-120] 01	ow-op i	Бу						
Detour Length (F	km)	9														
Allowable Load (t): Single CS1		47 DER		Semi		S2 56 IRDER			Train		3 67 RDER		> On Critic	al Spar	าร	
Design Loading:		HS2				0	INDLK				011	INDER		> Primary		
11025				Po	osting I	nforr	nation					2 i iiiiai y	оран			
Required Vert. Clearance Posting (m) UNDER: 1 L1				: 1 L1 (
Posted Vertical Clearance (Y/N) Ye			Yes													
Posted: Lane	EB		ridge (m)	5.2 Ir	n Adva	Advance (Y/N)		Yes	Lane	WB	С	n Bridge (m)	5.0	In Advance	(Y/N)	Yes
Remarks Confirmed V.C is accurate at time of insp					pecti	ion										
Required Load Posting (t) Single							Semi			Truck Train						
			Single	gle			Semi			Truck Train						
Posted: Lane NB			At Junction (Y/N)		No		In Adva	In Advance (Y/N)		No	At Bridge (Y/N)		No			
Posted:	Lane	SB		At Junct	ion (Y/	N)	No	In Advance (Y/N)		No	At Br	idge (Y/N)	No			
Remarks	Not re	quired														
Hazard Marker A	At Bridg	ge (Y/N)	No													
Remarks																
Other Sign Types R		ROUTE	, 40 KM/I	HR EX												
Littlita Attackas	-1- T						ilities (Loca	ted at)							
Utility Attachments TELEPHONE UTILITIES-PHONE Telephone Lines located all through area					ONE LI	INE										
									Municipal Municipal							
Power Others		overhea						Problem (Y/N) No								
Remarks	ribei	opiics ivo	IIII KOVV.					FIU	pieiii (i	/IN) I	NO					
Remains							Annros	ch F	oad							
					L	Approach Road Last Now Explanation of Condition										
Horizontal Alignment				6	6	Typ	Typical grade separation alignments, limited sight distances.									
Vertical Alignment				5	5	CR	ESTŠ A	T BRİ	DGE.							
Roadway Width (m) 9.100							ACP uneven at South.									
Approach Bump			5	5												
Guardrail (Y/N) Yes						Sev	eral pos	sts lea	ning a	and 1 split pos	st at N	IE. Wrong lap	at SW			
Guardrail						4	4	Not	Thriehe	am N	lot co	nnected to br	idae			
Length (m)			34.000					1.50								
Current Standa	ard (Y/I	N)	No													
Termination Ty	/pe		TURN	OWN E	NDS											
Drainage						4	4	(Po	nding at	t NE)-	could	I not confirm.				
Approach Road	l Gene	ral Ratin	g			5	5									

						Supers	structure			
Bridge Cor	nponent					<u> </u>	Explanation of Condition			
(Primary Sp	oan : RB, 4 Sp	ans, Leng	gths(n	n): 12.2-23.2	2-31.1-12	2.2, A-I	dent Number: A0483-01)			
Special Fe	atures									
Special Fea	ature					4	Level 2 insp revealed 2 pins are			
(Type:)							subset deck leakage thru curb is beginning to rust pin @ G1 and end G5.			
Special Fea	ature					Plate under pin is spread 20mm on				
(Type:)						outside and 10 mm on inside. Inside abut side bottom flange is 10mm lower.				
Wearing St	ırface/Deck To	n Detail R	atings							
Wouling Co	N (%)	1 (%)	attirigo	2 (%)	3 (%)					
Last	0	0		0		0				
Now	0.0	0.0)	0.0).0				
Wearing Su		0.0		0.0	5	5	map crking throughout- TRANSVERSE			
	Type : CONC F	RETE)			3		MEDIUM WIDTH CRACKS @ PIERS.			
	ss(mm) : 50)	<u> </u>					Wearing surface has surface spalls @ cracks			
(THICKING	53(11111) . 30)						Epoxy sealed.			
Deck Top						N				
Deck Rideability						6				
Deck Joints	.				5	5				
Temperat	ture (deg. C)	0								
(Expansion Type : FINGER PLATES)										
(Fixed Type :)										
Gap Size (mm) Gap Location										
3 North										
45 South										
							-			
							-			
Deck Drain	ane				7	4	Retro drain @ East gutter. South drain deflector plate is corroded			
	ogged (Y/N)	Y	es				through causing bearings to corrode.			
						Backwall trough drains gravel filled.				
Curbs/Med					5	5	Rust stain starting @ trans. cracks on curb face top. Medium scaling on curbs underside.			
	oe : Standard)						off carbs affactside.			
Scaling (F	Percent Area)	10)							
Bridge Rail						7				
(Type : STEEL VERTICAL BAR)							Isolated corrosion - 5%			
Bridge Rail Posts						7				
(Type : P	OST STEEL;P	OST STE	EL)							
Bridge Rail/Posts Coating 4						4				
(Type : P .	AINT)									
Sidewalk					X	Х				
Girder/Bea	m									
Cover Pla	ate				6	6	20 mm MAXIMUM SAG AT Sp.3 SCRAPES @ COVER PLATE IN W-BOUND LANE FROM HIGH			
Flange					6	6	SCRAPES @ COVER PLATE IN W-BOUND LANE FROM HIGH LOAD DAMAGE (MINOR).			
Web					7	7				
Stiffeners					7	7				
Splice					7	7				
Weld					7	7				
Diaphragm	s/Cross Frame				7	7				

Vertical (Y/N) No Horizontal (Y/N) No Substructure Bridge Component Last Now Explanation of Condition Abutments Bearing Seats/Caps 6 6 (Type : CONCRETE) 8 5 Backwalls/Breastwalls 7 6 Wingwalls 7 6 Piles N N Buried Paint/Coating X X Abutment Stability 5 6 Scour/Erosion 7 6				Cupara	ATUATURA
(Pinnary Span : RB, 4 Spans, Lengths(m): 12.2-23.2-31.1-12.2, A-Idenn Number: A0483-01) Paint Condition	Bridge Component				
Peaing at bottom flange at abutments,		engths(m): 12 2-23 2.			
Colour Description : RED		iongino(iii). 12:2 20:2			İ
Colour Code: 21310 Touchup Reguired (YN) Yes			+	4	The enting at bottom hange at abutments.
Touchup Required (Y/N)					
Bearings					
Temperature (deg. C) 0 Grout pad is broken at A2-GS. (Expansion Type: POT BEARING; ROLLER BEARING) (Fixed Type: ROCKER BEARING) Coating Adequate (V/N) Yes Functioning (Y/N) No Functioning (Y/N) Functio		163	1	1	Missing A/R @ A1 G2 G4 G5 and A2 G4
(Expansion Type : POT BEARING:ROLLER BEARING) (Fixed Type : ROCKER BEARING) (Fixed Type : ROCKER BEARING) Punctioning (Y/N)			4	4	
Fixed Type : ROCKER BEARING Coating Adequate (YN) Yes Functioning (YNs) No					Bearings @ Maximum @ North
Coating Adequate (Y/N)			NG)		Bearings & Maximum & North
Functioning (V/N)					
Deck Underside					
Span Alignment Problems Vertical (YN) No Horizontal (YN) No Superstructure General Rating Bridge Component Abutments Bearing Seats/Caps (Type : CONCRETE) Plies NN N Superstructure Substructure Bridge Component Abutments Bearing Seats/Caps (Type : CONCRETE) Flies NN N Superstructure Substructure Substructure Substructure Substructure Substructure Substructure Substructure Superstructure Super		INO	1	1	Bust stains and scaling ISOLATED @
Span Alignment Problems		10	4	4	EXTERIOR & @ HINGES. on S3 & S4.
Vertical (Y/N)	Stains (Percent Area) 10				Random transverse cracks and efflorescence
Horizontal (Y/N) No Superstructure General Rating 4 4 4	Span Alignment Problems	1			
Substructure General Rating	Vertical (Y/N) No				
Substructure	Horizontal (Y/N) No				
Last Now Explanation of Condition	Superstructure General Ratin	9	4	4	
Last Now Explanation of Condition				Subst	ructure
Abutments Bearing Seats/Caps 6 6 6	Bridge Component		Last		
Type : CONCRETE Backwalls/Breastwalls 5 5 5			1 - 21 - 2	1-1	
Type : CONCRETE Backwalls/Breastwalls 5 5 5	Bearing Seats/Caps		6	6	
Wingwalls 7 6 Piles N N Buried Paint/Coating X X Abutment Stability 5 6 Scour/Erosion 7 6 Piers/Bents (Type: PIER-COLUMN) Medium scaling @ underside @ South pier. Bearing Seats/Caps 5 5 (Type: CONCRETE) (Total Number of Bearing Piles: 2:2:2) Pier Shaft/Piles 5 5 Bracing/Struts/Sheathing X X Nose Plate X X Paint/Coating X X (Colour Description:) (Colour Code:) Pier Stability 8 7 Scour X X Debris (Y/N) No	(Type : CONCRETE)				
Piles N N Buried Paint/Coating X X Abutment Stability 5 6 Scour/Erosion 7 6 Piers/Bents			5	5	
Piles N N Buried Paint/Coating X X Abutment Stability 5 6 Scour/Erosion 7 6 Piers/Bents					
Paint/Coating	Wingwalls		7	6	
Paint/Coating	Piles		N	N	Buried
Abutment Stability 5 6 Scour/Erosion 7 6 Piers/Bents (Type: PIER-COLUMN) Medium scaling @ underside @ South pier. Bearing Seats/Caps 5 5 (Type: CONCRETE) (Total Number of Bearing Piles: 2:2:2) Pier Shaft/Piles 5 5 Bracing/Struts/Sheathing X X Nose Plate X X X Paint/Coating X X X (Colour Description:) (Colour Code:) Pier Stability 8 7 Scour X X X Debris (Y/N) No	1 1103		'`	'`	Bulled
Scour/Erosion 7 6	Paint/Coating		X	X	
Scour/Erosion 7 6			_		
Piers/Bents (Type: PIER-COLUMN) Bearing Seats/Caps 5 5 (Type: CONCRETE) (Total Number of Bearing Piles: 2:2:2) Pier Shaft/Piles 5 5 Bracing/Struts/Sheathing X X Nose Plate X X Paint/Coating X X X (Colour Description:) (Colour Code:) Pier Stability 8 7 Scour X X Debris (Y/N) No	Abutment Stability			6	
Piers/Bents (Type: PIER-COLUMN) Bearing Seats/Caps 5 5 (Type: CONCRETE) (Total Number of Bearing Piles: 2:2:2) Pier Shaft/Piles 5 5 Bracing/Struts/Sheathing X X Nose Plate X X Paint/Coating X X X (Colour Description:) (Colour Code:) Pier Stability 8 7 Scour X X Debris (Y/N) No	Scour/Erosion		7	6	
(Type : PIER-COLUMN) Bearing Seats/Caps					
Bearing Seats/Caps 5 5	Piers/Bents				
(Type : CONCRETE) (Total Number of Bearing Piles : 2:2:2) Pier Shaft/Piles 5 Bracing/Struts/Sheathing X Nose Plate X Paint/Coating X (Colour Description :) (Colour Code :) Pier Stability 8 7 Scour X No				1	Medium scaling @ underside @ South pier.
(Total Number of Bearing Piles : 2:2:2) Pier Shaft/Piles 5 5 Bracing/Struts/Sheathing X X Nose Plate X X Paint/Coating X X (Colour Description :) (Colour Code :) Pier Stability 8 7 Scour X X Debris (Y/N) No No				5	
Pier Shaft/Piles 5 5 Bracing/Struts/Sheathing X X Nose Plate X X Paint/Coating X X (Colour Description:) (Colour Code:) Pier Stability 8 7 Scour X X Debris (Y/N) No No					
Bracing/Struts/Sheathing	`	: 2:2:2)			
Nose Plate X X Paint/Coating X X (Colour Description:) (Colour Code:) Pier Stability 8 7 Scour X X Debris (Y/N) No					
Paint/Coating X X (Colour Description :) (Colour Code :) Pier Stability 8 7 Scour X X Debris (Y/N) No No	Bracing/Struts/Sheathing		X	X	
Paint/Coating X X (Colour Description :) (Colour Code :) Pier Stability 8 7 Scour X X Debris (Y/N) No No	Nosa Plata		V	V	
(Colour Description :) (Colour Code :) Pier Stability 8 7 Scour X X Debris (Y/N) No No	INUSE Plate			^	
(Colour Code :) Pier Stability 8 7 Scour X X Debris (Y/N) No	Paint/Coating			X	
(Colour Code :) Pier Stability 8 7 Scour X X Debris (Y/N) No	(Colour Description :)				
Scour X X Debris (Y/N) No	(Colour Code :)				
Debris (Y/N) No	Pier Stability		8	7	
Debris (Y/N) No					
	Scour		X	X	
	Debris (Y/N)	No			
Substructure General Rating 5 5					
	Substructure General Rating		5	5	

		5	re Usage					
		Last	Now	Explanation of Condition				
Grade Separation			_					
Road Alignment			8					
Traffic Safety Features			3	Wrong lap at SE and NW. 1 broken post at W/B median, 1 split post at E/B shoulder.				
Туре	GUARDRAIL							
Slope Protection			4	North slope buckling at bottom est				
(Type : CONCRETE; CONCRETE)				100 mm				
Bank Stability			5					
Drainage			5					
Grade Separation General Rati	ng	5	3					

75931 -1 Bridge

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance Re	commenda	tions					
Inspector Recomi	mendations	Year	Inspector Comments		Department Cor	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLAC	E BRIDGE RAIL	2012	Replace 1 post - NE approach and 1 median.	at W/B						
GALVANIZE/PAIN	NT BRIDGE RAIL									
RETROFIT BRID	GE RAIL									
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLAC	E DECK JOINTS	2014	Install W/P joints including over hinge	e pins.						
RESET/ PAINT B	EARINGS	2014	Reset North & South bearings and Install 3 bolts or consider new about bearings. Replace 1 grout pad.							
REPAINT SUPER	RSTRUCTURE									
STRAIGHTEN/REPLACE MEMBERS										
WASHING		2012	Clean backwall trough drains- patch / deflector plate.	Al						
SHOTCRETE REPAIRS										
REPAIR ABUTME	ENT SCOUR/EROSION	1								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT	ACCUMULATION									
OTHER ACTION		2012	Place cold mix at NE approach to prevent ponding.							
OTHER ACTION		2014	Upgrade guardrail to current standard	d						
OTHER ACTION		2012	Seal Hinge Pin Joint- blast clean pac	k rust.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condi	ition Rating (Last/Now	y) 50.0/50.	.0 Sufficiency Rating (Last/N	low) 45	5.8/43.3	Est. Repl. Yr	2038	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	Review long range pla maint. or rehab. (G. R	ins for this ove oberts Feb 14,	erpass and Hwy 1 before scheduling m /12)	najor I	Department Comments					
Maintenance Rev	Maintenance Reviewed By				Date		E	stimated Total	0	
Proposed Long-T										
On 3-Year Progra	am (Y/N)									

Proposed Action			
Previous Inspector's Name	Randy Bredo	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	14-Nov-2013	Previous Inspection Date	27-Jul-2010
Inspection Cycle (Default) (months)	21		
Comment			