Bridge Inspection																
Bridge File Num	idge File Number 78880 S-2 Bridge						J	Form Type			SG					
Year Built/Year 1978/1978								Lot No.			2					
Supstr								Inspector Name			Garry Roberts					
Bridge or Town Name CALGARY Located Over BOW RIVER, 2.13, WATERCRS						~ —		Inspector Class			BR CLS A					
Located Over				3, WAIL	RCRS-S	51		Assistant Name								
Located On	. ,	2:15 L1	27.436					Assistant Class								
Water Body CI./					I				Inspection Date			22-Jan-2013				
Navigabil. Cl./Ye							Data Entry By			Lauren Korte						
Legal Land Loca							Data Entry Date			06-Feb-2013						
Longitude, Latitu	ıde								Reviewer Name			Tom Carey				
Road Authority			· · · · · · · · · · · · · · · · · · ·							Review Date			3			
Contract Main. A			OOT/STO	OT/STONEV						Dept. Reviewer Name						
Clear Roadway/	Skew	14.3 /						Dept	Dept. Review Date			21-Feb-2013	3			
AADT/Year			/ 2011 (A	.)				Follow-Up By								
Road Classificat		RFD-61	5.6-130					-								
Detour Length (I	ĺ	1			1											
Allowable Load	(t): Sin	ngle CS	1 28	Sen		i CS2 49				Train	CS	33 62		> On Critical Spans >Critical Member		
Design Loading:		HS	25						-1:					> Primary S	Span	
Required Load Posting (t) Single					POSIII		nformation Semi					Truck Train				
Posted Loading		(')	Single					Semi								
Posted:	Lane	NB		At Junction (Y/N		NI)		In Advance (Y/N)			Truck Train At Bridge (Y/N)					
Posted:	Lane	SB			`		No	In Advance (Y/N)			No	At Bridge (Y/N) No		No		
Posted: Lane SB At Junction Remarks Not required.			7.11011 (171	, , , , , , , , , , ,						140						
Hazard Marker			No													
Remarks	At Dila	ge (1/1 4)		uired												
					V surfac	~ c	ensor R	Piver II) Brid	lae ices	2					
Other Sign Types Bump tab @ SW, surface sensor, Rive Utilities (Loc									190 1000	<i>.</i>						
Utility Attachme	nts P	OWER U	TILITIES-	POWER	RLINE											
Telephone	In are	a.						Gas	Gas							
Power	Multip	le wires	@ SE.						icipal	5	Sewa	ge outlet @ S	SW.	٧.		
Others	Light	standards	S.					Problem (Y/N) No								
Remarks	Cond	uits on ab	uts and p	iers.												
							Approa	ch Ro	ad							
					L	.ast	Now	Expl	Explanation of Condition							
Horizontal Align	ment					5	5		Curves-both ends. Grade up to North. Bridge on double			dge on double	curve.			
Vertical Alignme	nt					6	6	B311	B3117B							
Roadway Width	Roadway Width (m) 15.000															
Approach Bump				5	6											
Guardrail (Y/N) Yes						Para	pets.									
Guardrail				5	5											
Length (m) 60.000																
Current Stand	Current Standard (Y/N) Yes															
Termination T			TURNE	OWN												
Drainage						6	6									
Approach Road	d Gene	Approach Road General Rating					5									

					Supers	structure					
Bridge Comp	ponent					Explanation of Condition					
		ans. Lengths	(m): 30-51.5-			dent Number:)					
Special Feat		, <u>_</u>	(). 00 0 110		,						
Special Feat					X						
(Type:)	<u></u>										
Special Feat	Ire				X						
(Type:)	ui G										
	ace/Deck Top	Dotoil Boting	×0								
vvearing Sun	N (%)	1 (%)	2 (%)	3 (%)							
Last	0	0	0		0						
Now	20.0	0.0	0.0		0.0						
		0.0	0.0			DWIO consequentinoide long of On O					
Wearing Surf				8	8	RWIS sensor at inside lane of Sp. 2. Viewed from 4 corners due to high traffic volumes. No visible					
	ype : CONCR	EIE)				problems.					
(Thickness	(mm) : 50)				1						
Deck Top				N	N						
Deck Rideab	ility			8	8						
Deck Nideab	ility				0						
Deck Joints				5	4	All finger welds and joint spalls repaired April 20, 2011.					
Temperatu	re (dea. C)	-6				Viewed from 4 corners. Inspect and measure during full closure of Deerfoot in Spring 2013.					
(Expansion						Backwall drain troughs are detached at Al-NW and most of A2- leak					
	e : FINGER PI	LATES)				onto bearings.					
Gap Size (r			Location								
80	,	N ab									
70		S ab									
7.0	70 Cabat					-					
						-					
						-					
						-					
Dook Drainge				1	2	Nearrana hadruall drain at NIM and majority of Fact abut corner is					
Deck Drainag		Na		4	3	Neoprene backwall drain at NW and majority of East abut corner is detached and leaking onto SW bearing at A1 and SE at A2.					
Drains Clog	· · · · · · · · · · · · · · · · · · ·	No		_	Ι_						
Curbs/Media				7	7	Viewed from 4 corners. No visible spalling. 20% snow/ice covered.					
	: JERSEY/F										
	ercent Area)	0			1						
Bridge Rail				X	X						
(Type:)											
Bridge Rail P	osts			X	X						
(Type:)											
Bridge Rail/P	osts Coating			X	X						
(Type:)											
Sidewalk				X	X						
a											
Girder/Beam											
Cover Plate	9			X	X	Center spans viewed with binoculars .					
Flange				7	7						
Web				7	7	Catwalks at exterior bays.					
Stiffeners				7	7						
Splice				6	6						
Weld				6	6						
Diaphragms/	Cross Frame			7	7						

			Supers	tructure							
Bridge Component				Explanation of Condition							
(Primary Span : WG, 5 Spans, I	Lengths(m): 30-51.5-6										
Paint Condition		Х	Х	Scaling at bottom flange and bottom of web. Weathering steel.							
(Colour Description :)											
(Colour Code :)											
Touchup Required (Y/N)	No										
Bearings		5	5	South Abut West bearing .							
Temperature (deg. C) -6				Stainless steel distorted and teflon guides displaced - still functional.							
(Expansion Type :)											
(Fixed Type : POT BEARING)				50% corrosion @ NW bearing from backwall drainage.							
Coating Adequate (Y/N) No											
Functioning (Y/N)	Yes										
Deck Underside		5	5	Corrosion & efflosescence @ deck exterior @ parapet joints.							
Stains (Percent Area)	1			Full depth forms left in place. Isolated cracks with efflorescence. Corrosion & spall @ spans 1&2.							
Span Alignment Problems				Corrobon a span C spano raz.							
Vertical (Y/N)	No										
Horizontal (Y/N)	No										
Superstructure General Ratin	a	5	5								
	9										
				ructure							
Bridge Component		Last	Now	Explanation of Condition							
Abutments		Τ_	I _								
Bearing Seats/Caps		7	7								
(Type : CONCRETE)		7									
Backwalls/Breastwalls		7	7								
Wingwalls		6	6								
Piles	Piles			Buried.							
Paint/Coating		5	5	Graffiti covered.							
Abutment Stability		8	8								
Scour/Erosion	Scour/Erosion										
Piers/Bents											
(Type : PIER-SOLID)											
Bearing Seats/Caps		7	7								
(Type : CONCRETE)											
(Total Number of Bearing Piles	0:0:0:0)										
Pier Shaft/Piles		7	7								
Bracing/Struts/Sheathing		X	X								
Nose Plate			Х								
Paint/Coating			5	Graffiti covered at P1 and P4.							
(Colour Description :)											
(Colour Code :)											
Pier Stability			7								
Scour			N	Too deep at piers 2 and 3.							
Debris (Y/N)	No										
Substructure General Rating		7	7								

Structure Usage										
			Now	Explanation of Condition						
Channel										
(U/S Direction : W)										
(D/S Direction : E)										
Alignment		7	7							
Bank Stability			6	Cut bank at toe at South.						
HWM (m below Top of Curb)				No visible HWM.						
Drift (Y/N)	No									
Slope Protection		6	6	Rock @ headslope. Natural @ toe.						
(Type: RIP RAP; RIP RAP)										
Guidebank/Spurs		Х	X							
Adequacy of Opening			7							
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2:	NONE)									
Channel General Rating		5	6							

Bridge Inspection & Maintenance System (Web 2005)

				Mai	ntenance Re	commend	lations						
Inspector Recommendations		Year	Inspecto	or Comments			Department Co	ommer	Target Year	Est. Cost	Cat #		
REPAIR/REPLACE BRIDGE RAIL													
GALVANIZE/PAINT BRIDGE RAIL													
RETROFIT BRIDGE RAIL													
SEAL CURBS													
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLACE DECK JOINTS													
RESET/ PAINT BEARINGS		2013	Blast and	d recoat NW ar	nd SE abut be	earing.							
REPAINT SUPERSTRUCTURE													
STRAIGHTEN/REPLACE MEMBERS													
WASHING													
SHOTCRETE REPAIRS													
REPAIR ABUTMENT SCOUR/EROSI	ON												
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
OTHER ACTION		2013	Repair N replace v trough.	IW backwall thr with new one. F	ough drain 1. Replace East	.5m or abut							
OTHER ACTION			trough.										
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/N (%)	ow)	66.7/66.	7	Sufficiency R	lating (Last/I	Now)	54.4/56.1	Es	st. Repl. Yr	2056	Maint. Re	qd. (Y/N)	Yes
				(73)									
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			-	Estimated Total	0	
							Date				23timated Total	U	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Garry		Garry Roberts					Assistant's Nam	е					
		-2014				Previous	Previous Inspection Date 19-Apr-2011						
Inspection Cycle (Default) (months)	21						-						
Comment													