Bridge Inspection															
Bridge File Numb	per	7921	0 S-2 Bridge						Form Type		PSR				
Year Built/Year			/1982						Lot No.			1			
Supstr								Ins	Inspector Name			Garry Roberts			
Bridge or Town Name CALGARY - IVOR STRONG E									Inspector Class			BR CLS A			
Located Over RAMP 4097-1 F;BOW RIVE WATERCRS-ST					ER, 2.	₹, 2.13,			Assistant Name						
Located On 2:15 L1 20.007								Ass	Assistant Class						
Water Body Cl./Y		2.13	L1 20.001					Ins	Inspection Date			27-Jan-2013			
Navigabil. Cl./Yea									Data Entry By			Lauren Korte			
		S/V/ S	SEC 12 T\ME						Data Entry Date			15-Feb-2013			
				VI Z3 KGL I VV3IVI					Reviewer Name			Tom Carey			
Longitude, Latitude -114:01:07, 50:5 Road Authority Alberta Transpo					Γ\			Rev	Review Date			30-Jan-2013			
Contract Main. A	roa		RFOOT/STC)			De	ot. Revi	iewer N	lame	Tim Davies			
Clear Roadway/S		14.3		/INC I					Dept. Reviewer Name Dept. Review Date			21-Feb-2013			
AADT/Year	skew		/ 760 / 2011 (<i>F</i>						low-Up						
Road Classificati	on		-412.4-130	')				\dashv							
Detour Length (k	-	1	712.4-130												
Allowable Load (1			CS1 28		Semi	ni CS2 49			Train CS		Ce	3 62		> On Critic	eal Spans
	.,. 311	gie '			Jenn		JZ 1 3			ITAIIT				>Critical M	lember
Design Loading:			HS25											> Primary	Span
						Po	osting	nforr	nation						
Required Vert. C	learan	ce Po	sting (m)	UNDER	: 4097	'-1-F	4.9m								
Posted Vertical C	Clearar	nce (Y	′/N)												
Posted: Lane	NB	0	n Bridge (m)	lı	n Adva	vance (Y/N)			Lane	SB	0	On Bridge (m)		In Advance	(Y/N)
Remarks	Not re	quire	d.												
Required Load P	osting	(t)		Single			Semi				Truck	(Train			
Posted Loading ((t)			Single				Semi				Truck	rain Train		
Posted:	Lane	N	В	At Junction (Y/		Y/N)		In Advance (Y/N)		At Bridge (Y/N)					
Posted:	Lane	ne SB		At Junction (Y/N		/N)			In Adv	ance (Y/N)		At Br	idge (Y/N)	
Remarks Not required.															
Hazard Marker A	t Bridg	ge (Y/	N) No												
Remarks Not required.															
Other Sign Types Route Merge.															
						Ut	ilities	Loca	ted at)						
Utility Attachmen	ts P	OWE	R UTILITIES	-POWER	LINE										
Telephone	In area	а.						Gas							
Power	Sub st	ation	to SW.						Municipal						
Others	Light s	standa	ards.					Problem (Y/N) No							
Remarks	Condu	uits at	deck unders	ide North	ı - light	ing u	ndersio	le at l	North.						
							Appro								
						Last			Explanation of Condition						
Horizontal Alignn	nent					5	5	Cui	Curves-ramp @ North. B3121A						
Vertical Alignmer						6	7								
Roadway Width ((m)		15.000					(Wide cracks and delaminations in North approach)- paved over. Several patched areas in south approach. Pothole at merge lane							
Approach Bump	Approach Bump					4	4	now A.C.P covered. Minor pothole at North.							
Guardrail (Y/N) Yes								apets.							
Guardrail					5	5	Insufficient length - only 3m at SW.								
Length (m)			39.000												
Current Standa	ard (Y/I	N)	No					INO	Not thriebeam.						
Termination Ty	ре		TURNI	OOWN											
Drainage						7	7								
Approach Road	Gene	ral Ra	ating			5	5								

						structure				
Bridge Com	•					Explanation of Condition				
(Primary Spa	an : PB, 5 Spa	ns, Lengtl	ns(m): 35-48-4	48-48-35, <i>i</i>	A-Ident	t Number:)				
Special Fea										
Special Feat	ture				X	Access hatch to roof slab.				
(Type:)										
Special Feat	ture				X					
(Type:)										
Wearing Sur	face/Deck Top	Detail Rat	ings							
	N (%)	1 (%)	2 (%)	3 (%))					
Last	0	0	0		0					
Now	20.0	0.0	0.0		0.0					
Wearing Sur	Wearing Surface					Viewed from 4 1/4 points of deck. No visible problems.				
(Material T				6	6	Viewed from 1 17 points of door. No violate problems.				
(Thickness	• • • • • • • • • • • • • • • • • • • •									
•	nection Problem	n No								
(Y/N)	lection Problem	II INO								
Deck Top				N	N					
Deck Rideab	oility			7	7					
Deck Joints				4	4	4 gland joint - all gaps @ 45mm- at North abut.				
Temperatu	ıre (deg. C)	-7				3 gland joint - 45mm - 55mm - 505mm gaps at South abut. Surface spalls @ anchors.				
(Expansion	n Type : GLAN	ID (WABO	-MAUER, TRA	ANSFLEX	, ETC))					
(Fixed Typ	e:)									
Gap Size (·	G	ap Location							
45	,		abut							
55			abut							
			4541							
						_				
						_				
Deck Draina				7	7					
	gged (Y/N)	No		- '						
		INO		0		Newscartes				
Curbs/Media		0114.55		3	3	New center parapet. Isolated cracks and corrosion @ West.				
	e : JERSEY/F					Exterior of parapet spalled with exposed rebar at top and bot				
	ercent Area)	2				areas at SW over path.				
Bridge Rail				X	X					
(Type:)										
Bridge Rail F	Posts			X	X					
(Type:)										
Bridge Rail/F	Posts Coating			X	X					
(Type:)										
Sidewalk				N	Х					
Girder Detail										
	N (count)	1 (count)	2 (count)	3 (co	unt)					
Last	0	0	0		0					
Now	0	0	0		1					
Girders				6	3	Narrow cracks @ fascia.				
Cracking (Y/N)	Yes	3			Partial grout missing at PT recess at Sp.1 G3 with strand exposed and corroded.				
	Percent Area)	1								
	Girders : 15)					3 continuous lines.				
`	/Cross Frame			7	7					
Diaprilagi115/	Oloss Flame				'					

			Supers	structure					
Bridge Component		Last	Now						
(Primary Span : PB, 5 Spans,	Lengths(m): 35-4	8-48-48-35, <i>A</i>	\-ldent						
Bearings		6	6	West bearings @ North & South piers have masonry plate projecting					
Temperature (deg. C)	-7			over pier					
(Expansion Type : POT BEA	ARING)								
(Fixed Type : POT BEARING	·			10% corrosion.					
Coating Adequate (Y/N)	Yes								
Functioning (Y/N)	Yes								
Deck Underside		6	6	Corrosion stains @ parapet joints @					
Stains (Percent Area)	1			exteriors.					
Span Alignment Problems									
Vertical (Y/N)	No								
Horizontal (Y/N)	No			_					
Superstructure General Rati		6	3						
Superstructure General Nati	iig		3						
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
Bearing Seats/Caps		8	8	New expanded metal to keep pigeons out.					
(Type : CONCRETE)									
Backwalls/Breastwalls		7	7						
Wingwalls		7	7						
Piles		N	N	Buried.					
Paint/Coating			5						
Abutment Stability		7	7						
Scour/Erosion		7	7						
Piers/Bents		l l							
(Type : PIER-SOLID)									
Bearing Seats/Caps		8	8						
(Type : CONCRETE)									
(Total Number of Bearing Piles	s : 0:0:0:0)								
Pier Shaft/Piles		8	8	HWM guage at P2.					
Bracing/Struts/Sheathing		Х	Х						
Nose Plate		N	N	Submerged.					
Paint/Coating		5	5						
(Colour Description :)									
(Colour Code :)									
Pier Stability			7						
Scour			N	Water too fast too see.					
Debris (Y/N)	No		1						
Substructure General Rating	l	7	7						

		5	Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		5	6	Steep cut @ West - Mechanically stabilized.
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		5	6	Natural @ banks with class 1m @ North headslope.
(Type : CONCRETE; CONCR	ETE)			
Guidebank/Spurs		X	X	
Adequacy of Opening		8	7	
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)		_	
Channel General Rating		5	6	
Grade Separation				
Road Alignment		5	5	Local road at Sp.1. Ped paths at sp.2 and 5.
Traffic Safety Features		Х	Х	
Туре				
Slope Protection		4	4	Open gaps at NW and at NW and SW wings.
(Type : CONCRETE; CONCR	ETE)			
Bank Stability		6	6	
Drainage			6	
Grade Separation General Rat	ing	5	5	

79210 S-2 Bridge

					Maintenance R	ecommend	lations					
Inspector Recommendations			Year Inspector Comments				Department Com	Target Year	Est. Cost	Cat #		
REPAIR/REPLACE BRIDGE RAIL												
GALVANIZE/PAINT BRIDGE RAIL												
SEAL CURBS			2013	Patch ex	xteriors at South West.							
PATCH DECK												
SEAL DECK												
OVERLAY DECK			2013	Replace	North roof slab.							
REPAIR/REPLACE DECK JOINTS			2013	Investiga as requi	ate noise at North abutment red. Sr replace with new.	joint - shim	1					
RESET/ PAINT BEARINGS												
WASHING												
SHOTCRETE REPAIRS												
REPAIR ABUTME	NT SCOUR/EROSI	ON										
PLACE ADDITION	NAL RIP RAP											
REMOVE DRIFT	ACCUMULATION											
OTHER ACTION			2013	Seal cra	icks in approaches at South at North approach.	- patch						
OTHER ACTION			2013	Grout PT points @ East girder @ S points.								
OTHER ACTION			2013	Reinstal	I pigeon mesh at NE.							
OTHER ACTION			2013	Seal NV	V concrete slope protection.							
Structural Condition Rating (Last/Now) (%)			72.2/55.	.6	Sufficiency Rating (Last/	/Now)	56.2/46.4	Est. Repl. Yr	2046	Maint. Red	d. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments					
Maintenance Rev	iewed By						Date			Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name T		Tom C	arey			Previous	ous Assistant's Name					
Next Inspection Date 27		27-Oct-2014 Pre					us Inspection Date 22-Apr-2011					
<u>'</u>		21										
Comment	, , , , , , , , , , , , , , , , , , , ,											

Bridge Inspection & Maintenance System (Web 2005)