						E	Bridge I	nspe	ction								
Bridge File Numl	oer	77251 E-1 Bridge							Form Type			CON					
Year Built/Year	ear Built/Year 1976/1976							Lot	Lot No.			2					
Supstr								Inspector Name			Garry Roberts						
Bridge or Town Name CALGARY - 32 AVENUE NORT					ŤΗ			Inspector Class			BR CLS A						
Located Over 2:15 R1 37.097;2:15 L1 37.189					7.189				Assistant Name								
Located On 10245:02 R1 0.080						Assistant C			Class								
Water Body CI./						Inspection Date						08-Jan-2013					
Navigabil. Cl./Ye						Data Entr				[,] Ву		Lauren Korte					
Legal Land Location NE SEC 26 TWP 24 RGE 1 W5					1 W5N	/		Dat	Data Entry Date			28-Jan-2013					
Longitude, Latitude -114:02:05, 51:04:53								Rev	Reviewer Name			Tom Carey					
Road Authority Alberta Transportation (AIT)					T)		Review Date				17-Jan-2013						
Contract Main. A			OT/STO			Dep			ept. Reviewer Name			Tim Davies					
Clear Roadway/S			5 deg. (RF	lF)		Dept. Re			ot. Revi	. Review Date		29-Jan-2013					
AADT/Year			2001 (E)						low-Up	Ву							
Road Classificati		RLU-20	8-100														
Detour Length (k	<u></u>	10												_			
Allowable Load (t): Single Sem			Semi			Train					>	> On Critical Spans >Critical Member					
Design Loading:														> Primary Span			
Doolgii Loddiig.						P	osting I	nforr	nation					- i iiiiai y	Оран		
Required Vert. C	learan	ce Postir	na (m)	UNDER	R: 2 L1		n, 2 R1 (TC-UT-								
Posted Vertical (Yes			.,										
	NB		ridge (m)		In Adva	ance	(Y/N)	No	Lane	SB	Or	n Bridge (m)	Ir	n Advance	e (Y/N)		
	S/B pc		• • •				(' /					· J · ()			(')		
Remarks S/B posting on BF 77251W Required Load Posting (t) Single									Semi				Truck Train				
Posted Loading		(-)		Single					Semi				Truck Train				
Posted:	Lane	ЕВ			ction (Y	Y/N) No			In Advance (Y/N)		N)	No	At Bridge (Y/N)		No		
Posted:	Lane	WB		At Junction ()					In Advance (Y/N)			No	At Bridge (Y/N)		No		
Remarks Not required.					<i>y</i>	,,	1		1117101	4.100 (17	,		/	(, , , , ,	1.10		
Hazard Marker A		•	No														
Remarks		(() ()	1.10														
Other Sign Type	 S		ROUTE	, 50KM/	HR RA	MP 6	SOKM/H	R.									
o mer eign type				,			ilities (ted at)								
Utility Attachmen	nts P0	OWER U	TILITIES-	POWER	R LINE		,										
-	At SW								 S								
•			th ROW.			Mu			Manhole approaches N\			es NW.	IW.				
Others		tandard							Problem (Y/N) No								
Remarks			k lighting.														
							Approa	ch R	oad								
						Last	Now	Exp	olanatio	on of Co	ndit	ion					
Horizontal Alignment						6	6	Rar	Ramps controlled intersections @ both ends.								
Vertical Alignment					6	6	B2	32134									
Roadway Width (m) 24.000							<u>-</u>	2104									
Approach Bump					7	6											
Guardrail (Y/N) Yes							HS	S rail o	n I-beam	pos	ts.						
Guardrail			4	4	All	HSS rail on I-beam posts. All post to rail welds broke at SE and 3 at SW.											
Length (m) 99.000																	
Current Standard (Y/N) Yes																	
Termination Type TURN DOWN																	
Lermination IV						_	7										
Drainage						7	7										
						6	6										

						Supers	tructure						
Bridge Component													
(Primary Spa	n : CB, 2 Spa i	ns, Len	gths(n	n): 42.7-47.2,	A-Iden	t Numb	per:)						
Special Feat	ures												
Special Feature						X							
(Type:)													
Special Feature						X							
(Type:)													
Wearing Surf	ace/Deck Top	Detail I	Ratings										
	N (%) 1 (%) 2 (%)												
Last	0	()	0		0							
Now 5.0 0.0 0.0						0.0							
Wearing Surf	ace				6	4	Longitudinal cracks. Approx 1m2 pothole at SW corner ACP						
(Material Ty	ype : CONCRE	ETE)					transition paving onto deck. Another 4m2 is delaminated. Approx 2m2 of concrete deck spalls.						
(Thickness	(mm) : 50)						21112 of concrete deak spans.						
Deck Top					N	N							
Deck Rideab	ility				7	7							
Deck Joints					3	3	Paving lips spalled @ East & West - shallow spalls and missing 150mm section of angle at East abut but joint is sound.						
Temperatu	`		1				,						
` .	Type : GLAN	D (WAI	30-MA	UER, TRANS	FLEX,	ETC))	(Gland torn @ outside E/B lane @ West abutment- approx 1m long) Gland is dirt filled not able to confirm.						
(Fixed Type :)													
Gap Size (mm) Gap Location													
50 E Abut													
70			W Abı	ut									
Deck Drainage						4	Staining between structures. No drains. Gland joint @ median between structures. Good longitudinally. Torn @ abuts.						
Drains Clogged (Y/N) No							Leaks @ West abut joint @ SW.						
Curbs/Media	n				4	4	Cracked and spalled at SE curb fascia of Sp.1 over S/B lane at 3						
(Curb Type	: Standard)						locations.						
Scaling (Pe	ercent Area)	2	2										
Bridge Rail					7	7	1 nut missing & Sheared both @ 19th post & 3rd post from from SE.						
(Type : GA	LVANIZED ST	EEL B	RIDGE	TUBE)			8 post A/B nuts not fully engaged.						
Bridge Rail P	osts				4	4	Correction @ book plates						
(Type : GA STEEL)	LVANIZED PO	ST ST	EEL;G	ALVANIZED	POST		Corrosion @ base plates.						
Bridge Rail/P	osts Coating				4	4							
	LVANIZED)												
Sidewalk					X	Х							
Girders	Girders				4	4	Voided slab. Approx 1mm wide x 700 long vertical crack at SE fascia.						
Diaphragms/Cross Frame					X	X							
Bearings					5	5	Covered with expanded metal and visible only at SW.						
Temperature (deg. C) -1													
(Expansion	Type : POT B	EARIN	G)				Corrosion at exteriors.						
(Fixed Type	e:)												
Coating Ad	Coating Adequate (Y/N) No												
Functioning (Y/N) Yes													
Deck Underside					4	4	Corrosion staining and cracks under median between structures.						
Stains (Per	Stains (Percent Area) 5						SE, SW scaling and corrosion @ Deck exterior underside.						
(. 5.	/	· ·											

			Supers	tructure
Bridge Component				Explanation of Condition
(Primary Span : CB, 2 Spans, Le	engths(m): 42.7-47.2,	A-Iden	t Numb	per:)
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No		_	
Superstructure General Rating		4	4	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		4	4	2 wide vertical cracks and 1 spall 1m x 0.15 at East abut. Heavy scaling at SW.
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		4	4	Peeling.
Abutment Stability		7	7	
Scour/Erosion		Х	Х	
Piers/Bents				
(Type : PIER-SOLID)				Integral @ pier.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)			_	Map cracking.
Pier Shaft/Piles		7	7	
Nose Plate		Х	X	
Paint/Coating		5	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		Х	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
				re Usage
		Last	Now	Explanation of Condition
Grade Separation		1		
Road Alignment		6	6	Curves both sides.
Traffic Safety Features		7	7	Cable barrier system.
Туре	Steel Median			
Slope Protection		5 4		Isolated 10mm cracks @ NW. Cracked slope protection @ SE and 20mm open joint. Bottom
(Type : CONCRETE; CONCRE	ETE)			sections cracked at both ends.
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating			6	

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance Recom	mend	ations					
Inspector Recommendations	Year	Inspect	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Extend	bolts and add nuts at South bridge welds at approach rails.	erail.						
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS	2013	SE exte	erior curb spall- approx 1.2m2.							
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS		done. R	e West abut joint gland - if not alre Reseal median joint and install sea here open.	ady ls at						
RESET/ PAINT BEARINGS	2013	Blast ar	nd recoat bearings.							
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSI	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2013	Ероху і	nject girder crack- 700mm.							
OTHER ACTION			Clean patch and seal at SW and under median							
OTHER ACTION		Seal slo 20m.	Seal slope protection cracks and gaps approx 20m.							
OTHER ACTION		Repair	Repair abut spall approx 1m2.							
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 44.4/	44.4	Sufficiency Rating (Last/Now) (%)	2	29.0/30.2	Est. Repl. Yr	2031	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Rober	ts	Pre	vious A	Assistant's Name					
Next Inspection Date	08-Oct-2014		Pre	vious I	nspection Date	12-Apr-2011				
Inspection Cycle (Default) (months)	21					,				
Comment										