						E	ridge l	nspe	ction							
Bridge File Numb	er 7	78585 -1 Bridge						Form Type				SG				
Year Built/Year	ar Built/Year 1982/1982								Lot No.		2					
Supstr								Ins			Garry Roberts					
Bridge or Town Name MONARCH									Inspector Class		BR CLS A					
Located Over 3A:08 L1 5.452;RAMP 77-1 A;C					1 A;CF	CPR			Assistant Name							
Located On	2	23:04 L1	1.942;23	:04 R1 2.	.342				sistant C	lass						
Water Body CI./Ye	ear								Inspection Date		30-Nov-2011					
Navigabil. Cl./Yea	ır								Data Entry By Anne Roberts							
Legal Land Location SE SEC 8 TWP 10 RGE 23 W4				3 W4N	1		, , , , , , , , , , , , , , , , , , ,			08-Jan-2012						
Longitude, Latitude -113:04:38, 49:48:05					1						Tom Carey					
Road Authority Alberta Transportation (AIT))						07-Dec-2011							
Contract Main. Ar	ea (CMA25									lame	Tim Davies				
Clear Roadway/S	kew 1	16 / -45 d	eg. (LHF	·)				· · · · ·	ot. Revie			10-Jan-2012				
AADT/Year	5	5,890 / 20	010 (A)						low-Up I			10-5411-2012				
Road Classificatio	on F	RCU-209	-110					1.01	low-op i	Jy						
Detour Length (kn	n) 3	3														
Allowable Load (t)	<u> </u>	le CS1	28 Sem			CS	52 49	Train C		CS	3 62>		> On Criti	> On Critical Spans		
Design Loading:		MS2	30											>Critical Member > Primary Span		
						Po	osting I	nfor	nation							
Required Vert. Cle	earanc	e Posting	g (m)	UNDER	: 3A L											
Posted Vertical Cl	learand	ce (Y/N)		Yes												
Posted: Lane E	ΞB	On Bri	idge (m)	6.9 Ir	n Adva	ance	(Y/N)	Yes	Lane	WB	0	n Bridge (m)	6.9	In Advanc	e (Y/N)	Yes
Remarks	Measur		• • •	2010. 6.9			. , ,				1			I		
Required Load Po	osting (t)		Single				Semi			Truc	k Train				
Posted Loading (t		. 7		Single				Semi			Truck Train					
	_ ane	NB		At Junction (Y/N)		/N)	No		In Adva	ance (Y/N)	No At Br		ridge (Y/N) No		
	ane	SB		At Junct	`		No		In Advance (Y/N)		No	At Bridge (Y/N) No				
Remarks Not required			(1)	, ,												
Hazard Marker At			No													
Remarks		- ()														
Other Sign Types			INFORI	MATIONA	AL. DI	RECT		. LAN	IE NAR	ROWS	3					
5 71			1		,		ilities (
Utility Attachment	s															
Telephone N	NRWι	under brid	dge				Gas 50 m north									
Power L	Jnderg	round for	r lights @	undersi	de dec	deck			nicipal							
	0	ass lighti	0							m (Y/N) No						
		andards	•	irea												
							Approa	ch F	load							
						Last	Now	Explanation of Condition								
Horizontal Alignm	ent					6	6		rves on l			uth a a a				
Vertical Alignmen	t					5	5		nal culve le 78442		er no	rth approach				
Roadway Width (r	m)		16.600						cently pa							
Approach Bump						6	7									
Guardrail (Y/N) Yes						Mis	sing SV	V trans	sition b	oolt						
Guardrail				4	4	Not	thriebe	am								
Length (m) 99.000																
Current Standard (Y/N) No																
Termination Type TURNED DOWN			J													
Drainage				-	7	4	Voi	d under	SE dr	ain ex	tends under a	appro	ach slab			
					F	-										
Approach Road	Gener	ai Kating				5	5									

Superstructure											
Bridge Com	ponent				Last	Now	Explanation of Condition				
(Primary Span : WG, 4 Spans, Lengths(m): 21-32-32-21, A-Ident Number: A0900-01)											
Special Feat	ures										
Special Feature						Х					
(Type:)											
Special Feature						Х					
(Type :)											
Wearing Surface/Deck Top Detail Ratings											
	N (%) 1 (%) 2 (%)			3 (%)							
Last	0)	0	0						
Now	0.0	0	.0	0.0	0.0						
Wearing Surface					4	4	Random longitudinal and transverse				
	ype : CONCRE	ETE)					cracks.				
(Thickness		/					1 spall in SBL North end 0.3x0.3				
Deck Top	() : •••)				X	N					
Deck Rideab	ility				6	6					
Deck Joints					3	3	fingers sit up 3 to 6mm-jnt noisy N&S				
Temperatu	· ~ ~ ~ ~ ~ ~ ~ ~ ~ _ ~ _ ~ _ ~ _ ~ _ ~ _ ~ _ ~ _ ~ _ ~ _ ~ ~ _ ~ ~ _ ~ ~ _ ~ ~ _ ~ ~ _ ~ ~ _ ~ ~ _ ~		2				-				
· · · ·	Type : FINGE	ER PLA	TES)				5 broken finger welds at South abutment- NBL - could not confirm.				
(Fixed Type	(Fixed Type :)										
Gap Size (r	mm)		Gap L	ocation			_				
70			N. abi	ut							
55			S. abı	S. abut			_				
Deck Drainag	ge				5	5	Retro- fit drains along both sides				
Drains Clog	gged (Y/N)	1	No								
Curbs/Media	n				4	4	Patch @ west side of north end median spalled				
(Curb Type	: Standard)										
	ercent Area)	()								
Bridge Rail					7	7					
	IDGE TUBE)										
Bridge Rail P					7	7					
(Type : GA	LVANIZED PO	OST ST	EEL:G		-						
ŠŤÉEL)			,-				-				
Bridge Rail/P	osts Coating				5	5	-				
(Type :)											
Sidewalk					X	X					
Girder/Beam											
Cover Plate	Э				X	Х					
Flange					8	7					
Web					8	7					
Stiffeners					8	7					
Splice					8	7					
Weld					8	7					
Diaphragms/	Cross Frame				8	7					

Alberta Transportation

			Supers	tructure
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans	, Lengths(m): 21-32-3	32-21, A-lo	dent Nu	umber: A0900-01)
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	Exp. at P2 and P4
Temperature (deg. C)	-2			
(Expansion Type : REINFOR TEFLON AND STAINLESS	RCED NEOPRENE BE STEEL)	ARING W	/ITH	_
(Fixed Type : ROCKER BEA	ARING)			-
Coating Adequate (Y/N)	Yes			-
Functioning (Y/N)	Yes			
Deck Underside		5	5	Transverse cracks every est 1.0 m and leaching underneath. Rust
Stains (Percent Area)	10			stains from transverse cracks under median.
Span Alignment Problems				
Vertical (Y/N)	No			-
Horizontal (Y/N)	No			
Superstructure General Rati	ng	5	5	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Delam. spall at top of North abut. at West end approx. 3m2
(Type : CONCRETE)			1	
Backwalls/Breastwalls		8	7	
Wingwalls		8	7	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	7	
Scour/Erosion		X	Х	
Piers/Bents				
(Type : PIER-COLUMN)				Minor hairline cracks.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles	s : 6:6:6)			
Pier Shaft/Piles		8	7	1
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	Х	
Paint/Coating 6			5	
(Colour Description : YELLO)W)			
(Colour Code : 13538)				
Pier Stability		7	7	
Scour		X	Х	
Debris (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Substructure								
Bridge Component			Now	Explanation of Condition				
Substructure General Rating			4					
			1					
				re Usage				
		Last	Now	Explanation of Condition				
Grade Separation								
Road Alignment			6	Curve east side				
Traffic Safety Features			7	guardrails on both sides.				
			1					
Туре	LIGHTS, GR							
Slope Protection		6	6	Concrete has slid 50 mm north and 70 mm south. Presently agains				
(Type : CONCRETE; CONCRE	ETE)			pier piles.				
Bank Stability			6					
Drainage			6					
		5						
Grade Separation General Rati	ng	6	6					

Alberta Transportation

		Maintenance R	ecommendations					_
Inspector Recommendations	Year	Inspector Comments	Department Com	iments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
GALVANIZE/PAINT BRIDGE RAIL								
RETROFIT BRIDGE RAIL								
SEAL CURBS	2012	patch median @ N 0.01m3NH						
PATCH DECK	2012	0.3 x 0.3 deck spall						
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2012	Repair 6 broken finger welds South check all others (if not already done	abutment-					
RESET/ PAINT BEARINGS								
REPAINT SUPERSTRUCTURE								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSIO	N 2012	Grout void under SE approach slab						
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2012	Patch North abut seat approx 2m2						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Nov (%)	w) 66.7/50	.0 Sufficiency Rating (Last/ (%)	/Now) 62.4/56.6	Est. Repl. Yr	2032	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 Roberts		Previous Assistant's Name					

Alberta Transportation	Bridge Inspection & Maintenance System (Web 2	2005) 7858	35 -1 Bridge
Next Inspection Date	30-Aug-2013	Previous Inspection Date	19-May-2010
Inspection Cycle (Default) (months)	21		
Comment			