

Bridge Inspection										
Bridge File Number	78585 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	1982/1982					Lot No.	2			
Bridge or Town Name	MONARCH					Inspector Name	Garry Roberts			
Located Over	3A:08 L1 5.452;RAMP 77-1 A;CPR					Inspector Class	BR CLS A			
Located On	23:04 L1 1.942;23:04 R1 2.342					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	30-Nov-2011			
Legal Land Location	SE SEC 8 TWP 10 RGE 23 W4M					Data Entry By	Anne Roberts			
Longitude, Latitude	-113:04:38, 49:48:05					Data Entry Date	08-Jan-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	CMA25					Review Date	07-Dec-2011			
Clear Roadway/Skew	16 / -45 deg. (LHF)					Dept. Reviewer Name	Tim Davies			
AADT/Year	5,890 / 2010 (A)					Dept. Review Date	10-Jan-2012			
Road Classification	RCU-209-110					Follow-Up By				
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS230									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 3A L1 6.9m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	6.9	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	6.9	In Advance (Y/N)	Yes
Remarks		Measured V.C. May 19, 2010. 6.9 is accurate										
Required Load Posting (t)			Single				Semi				Truck Train	
Posted Loading (t)			Single				Semi				Truck Train	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks		Not required										
Hazard Marker At Bridge (Y/N)			No									
Remarks												
Other Sign Types			INFORMATIONAL, DIRECTIONAL, LANE NARROWS									

Utilities (Located at)				
Utility Attachments				
Telephone	N RW under bridge		Gas	50 m north
Power	Underground for lights @ underside deck		Municipal	
Others	Underpass lighting		Problem (Y/N)	No
Remarks		Light standards thruout area		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves on both ends.
Vertical Alignment		5	5	Canal culvert under north approach - File 78442.
Roadway Width (m)	16.600			Recently paved
Approach Bump		6	7	
Guardrail (Y/N)		Yes		Missing SW transition bolt
Guardrail		4	4	Not thriebeam
Length (m)		99.000		
Current Standard (Y/N)		No		
Termination Type		TURNED DOWN		
Drainage		7	4	Void under SE drain extends under approach slab
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 4 Spans, Lengths(m): 21-32-32-21, A-Ident Number: A0900-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	4	Random longitudinal and transverse cracks. 1 spall in SBL North end 0.3x0.3	
(Material Type : CONCRETE)						
(Thickness(mm) : 60)						
Deck Top			X	N		
Deck Rideability			6	6		
Deck Joints			3	3	fingers sit up 3 to 6mm-jnt noisy N&S	
Temperature (deg. C)		-2		5 broken finger welds at South abutment- NBL - could not confirm.		
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
70		N. abut				
55		S. abut				
Deck Drainage			5	5	Retro- fit drains along both sides	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Patch @ west side of north end median spalled	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			7	7		
(Type : BRIDGE TUBE)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			5	5		
(Type :)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X		
Flange			8	7		
Web			8	7		
Stiffeners			8	7		
Splice			8	7		
Weld			8	7		
Diaphragms/Cross Frame			8	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 21-32-32-21, A-Ident Number: 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 : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : ROCKER BEARING)				
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 from transverse cracks under median.
Stains (Percent Area)	10			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
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)				
Backwalls/Breastwalls		8	7	
Wingwalls		8	7	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Minor hairline cracks.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6:6)				
Pier Shaft/Piles		8	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	5	
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

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

Next Inspection Date	30-Aug-2013	Previous Inspection Date	19-May-2010
Inspection Cycle (Default) (months)	21		
Comment			