

Bridge Inspection										
Bridge File Number	81555 E-1 Bridge				Form Type	SG				
Year Built/Year Supstr	1996/1996				Lot No.	2				
Bridge or Town Name	MONARCH				Inspector Name	Garry Roberts				
Located Over	OLDMAN RIVER, 2.12, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	3:08 R1 28.340				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	30-Nov-2011				
Legal Land Location	SW SEC 6 TWP 10 RGE 23 W4M				Data Entry By	Anne Roberts				
Longitude, Latitude	-113:06:27, 49:47:13				Data Entry Date	08-Jan-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney				
Contract Main. Area	CMA25				Review Date	13-Dec-2011				
Clear Roadway/Skew	12.4 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	7,390 / 2010 (A)				Dept. Review Date	12-Jan-2012				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CS750				----> Primary Span					

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	OLD MAN RIVER, S curve								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	S R/W				Gas				
Power	3 wire, 100m S & 30 NE&SE				Municipal				
Others	Fibre optics @ South ROW				Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	Curves & hill both approaches					
Vertical Alignment		6	6						
Roadway Width (m)		12.500							
Approach Bump		6	6						
Guardrail (Y/N)		No		3.8m @ NE & 11.4 @ SE					
Guardrail		4	4	Wrong lap at NE Not thriebeam					
Length (m)		91.000							
Current Standard (Y/N)		No							
Termination Type		TURNDOWN							
Drainage		7	7						
Approach Road General Rating		6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 52-66-52, A-Ident Number: A1263-01)					
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			7	7	Recently crack sealed
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top			N	X	
Deck Rideability			8	7	
Deck Joints			7	7	
Temperature (deg. C)		-1			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
100		E abut			
100		W abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	3	Accident damage at Sp. 3 South side with damage to curb top.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	3	1 bent post A/B north rail over P2 and 1 at NE corner. accident damage to two posts and 4 rail sections
(Type : BRIDGE TUBE)					
Bridge Rail Posts		6	3		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	6		
(Type :)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			8	X	
Web			8	X	
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, 3 Spans, Lengths(m): 52-66-52, A-Ident Number: A1263-01)				
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	-1			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	7	Crks & efflorescence @ Exterior
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried
Paint/Coating		7	7	
Abutment Stability		8	8	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		7	7	Gulvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	Water to deep at P2
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Curve D/S and U/S
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		5	5	Sluffing D/S - Steep cut @ SE
HWM (m below Top of Curb)	4.0			No visible HWM Minor drift along west bank and P1
Drift (Y/N)	Yes			
Slope Protection		8	8	Class 2 & 3 Rock at toe (east)
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		8	8	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 2 posts, 4 rails and approx. 4 m2 curb accident damage.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/83.3	Sufficiency Rating (Last/Now) (%)	74.8/72.0	Est. Repl. Yr	2071	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	30-Aug-2013		Previous Inspection Date	20-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							