

Bridge Inspection							
Bridge File Number	00286 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1965/1965			Lot No.	2		
Bridge or Town Name	CARDSTON			Inspector Name	Jason Rusu		
Located Over	ST MARY RIVER, 2.12.20, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	501:02 C1 9.531			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	09-Jun-2012		
Legal Land Location	SW SEC 1 TWP 2 RGE 25 W4M			Data Entry By	Kelsey Roberts		
Longitude, Latitude	-113:13:19, 49:05:32			Data Entry Date	20-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA25			Review Date	10-Jul-2012		
Clear Roadway/Skew	7.9 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	540 / 2011 (A)			Dept. Review Date	30-Jul-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	20						
Allowable Load (t):	Single	CS1 47 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 69 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> 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								

Utilities (Located at)			
Utility Attachments			
Telephone	south (u/s)		Gas
Power	2W 15m E of brg +2W 30m S		Municipal
Others	Water monitoring station at NE		Problem (Y/N) No
Remarks	AGT CLIPPED TO UNDERSIDE OF S CURB		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	INTERSECTION E OF BRIDGE.
Vertical Alignment		6	6	
Roadway Width (m)	7.900			Bump at A1
Approach Bump		7	5	
Guardrail (Y/N)	Yes			
Guardrail		4	4	Turndown @ W Wrong lap at NE and SW Not thriebeam
Length (m)	30.000			
Current Standard (Y/N)	No			
Termination Type	TURNED OUT			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 3 Spans, Lengths(m): 29-29-29, A-Ident Number:)					
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	(asphaltic depth measurements taken @ 6 locations during cse deck testing (average depth=50mm))
(Material Type : ACP)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	
Temperature (deg. C)		10			
(Expansion Type : SLIDING PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75		abut. 1			
95		abut. 2			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			5	5	ONE PANEL WITH SLIGHT TWIST & THREE BENT VERTICALS ON SOUTH RAIL (U/S), 8th PANEL FROM WEST-SOUTH RAIL 4 posts north rail - 3 south rail with A/B nuts not fully engaged Minor corrosion @ 5%
(Type : VERTICAL BAR)					
Bridge Rail Posts			4	4	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			7	7	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 12)					
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 29-29-29, A-Ident Number:)				
Bearings		5	5	Grout spalled @ S ext bearing @ E pier 2 minor grout pad spalls at Abut. 2 and 1 at abut. 1 - sw Exterior bearing corroded at SW - abut. 1 at A1, P1, P2, , A2 Touch up required
Temperature (deg. C)	10			
(Expansion Type : ROCKER BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	Spalled bearing pad does not affect G.R.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	25% corrosion on nose plates Silver
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	Yes			Old piles in u/s channel bank
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	4.1			No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Correct lap at approach rails					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2012	Blast and coat bearings					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Grout 3 abut. 1 pier bearing pads.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	68.9/67.7	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
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	09-Sep-2015		Previous Inspection Date	18-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							