

Bridge Inspection									
Bridge File Number	09487 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1921/1921				Lot No.	2			
Bridge or Town Name	STEVEVILLE				Inspector Name	Jason Saly			
Located Over	RED DEER RIVER, 3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	876:04 C1 21.404				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Nov-2010			
Legal Land Location	SW SEC 4 TWP 22 RGE 12 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-111:36:55, 50:50:18				Data Entry Date	07-Jan-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA23				Review Date	11-Dec-2010			
Clear Roadway/Skew	7.3 / -17 deg. (LHF)				Dept. Reviewer Name	Chris Black			
AADT/Year	310 / 2009 (A)				Dept. Review Date	11-Jan-2011			
Road Classification	RCU-208-110				Follow-Up By				
Detour Length (km)	38								
Allowable Load (t):	Single	H 82 GIRDER	Semi	HS 87 GIRDER	Train	CS3 90 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	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)	Yes								
Remarks									
Other Sign Types	80km/hr, information								
Utilities (Located at)									
Utility Attachments									
Telephone	West ditch.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curve and hill to south				
Vertical Alignment			6	6					
Roadway Width (m)	7.500								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Creased 5 sections at NE.				
Guardrail			5	5					
Length (m)	47.000								
Current Standard (Y/N)	No				Insufficient post/spacing.				
Termination Type	TURNED DOWN ENDS								
Drainage			7	N	Snow covered.				
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 4 Spans, Lengths(m): 50.9-50.9-50.9-50.9, A-Ident Number: A0627-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.	
Last	0	0	0	0		
Now	70.0	0.0	0.0	0.0		
Wearing Surface			7	6		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			6	6		
Temperature (deg. C)		-16				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
56	N. abut					
27	S. abut					
Deck Drainage			7	N	Snow covered.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	N	Snow covered.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			6	6	(Missing 1 bolt at NW and NE bridge rail to approach rail transition. 09Feb2009). (Bullet holes in E rail. 09Feb2009). 1 missing rain cap along E bridgerail, post damage. (Several anchor bolt nuts have insufficient thread. 09Feb2009).	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			4	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			6	6		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	Inspection access plate is off @ both ends of both girders. (Plate is inside girder).	
Flange			7	7		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 50.9-50.9-50.9-50.9, A-Ident Number: A0627-01)				
Paint Condition		5	5	Top coat peeling on 1% of area. Superficial rust starting at girder ends & bottom.
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Touchup Required (Y/N)	No			
Bearings		7	7	
Temperature (deg. C)	-16			
(Expansion Type : POT BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Could only inspect underside btwn girders.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		N	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		8	7	
Piers/Bents				
(Type : PIER-SOLID)				Bottom of piers abraded 25mm deep.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				Unknown.
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	N	Snow/ice.
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	Vertical cut bank in both channels.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		8	N	Snow covered.
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	2 missing bolts at bridge/approach transition, if not yet done.					
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	2011	Secure girder access hatch door-both ends of both girders.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	76.3/76.4	Est. Repl. Yr	2027	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2007.04.07 Seal Cracks and chip seal by 2010. 2nd generation rehab about 2040. With normal maintenance bridge should be good until 2070.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Feb-2014		Previous Inspection Date	09-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							