

Bridge Inspection									
Bridge File Number	79262 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1985/1985				Lot No.	2			
Bridge or Town Name	JAMES R BRID				Inspector Name	Owen Salava			
Located Over	JAMES RIVER, 3.95, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22:20 C1 14.533				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Oct-2012			
Legal Land Location	NE SEC 17 TWP 34 RGE 5 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:40:01, 51:55:28				Data Entry Date	09-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA29				Review Date	30-Oct-2012			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,270 / 2011 (A)				Dept. Review Date	13-Nov-2012			
Road Classification	RAU-211.8-110				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:	MS300						----> 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)	No								
Remarks	Not required.								
Other Sign Types	Information.								

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3 wire to North 100m crossing road.				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Intersection 100m North of bridge with SH587. Crest curve to the South.					
Vertical Alignment		6	6						
Roadway Width (m)	10.800			Typical crack at end of approach slab.					
Approach Bump		6	6						
Guardrail (Y/N)		Yes		Not thrie beam.					
Guardrail		5	5						
Length (m)	41.800								
Current Standard (Y/N)	No								
Termination Type		Turn Down							
Drainage		6	6						
Approach Road General Rating		6	6						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 19-22-19, A-Ident Number: A1010-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Gravel along curbs.	
Last	2	0	0	0		
Now	2.0	0.0	0.0	0.0		
Wearing Surface				5	5	Numerous cracking, transverse cracking every 5-6m, some longitudinal cracking. Sealed.
(Material Type : ACP)						
(Thickness(mm) : 90)						
Deck Top				N	N	Paved over.
Deck Rideability				7	7	
Deck Joints				3	6	
Temperature (deg. C)		18				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
62		N. abut - Gland				
67		S. abut - Gland				
Deck Drainage				7	7	Bridge on grade to south.
Drains Clogged (Y/N)		No				
Curbs/Median				7	7	Remainder of curbs 1%. Recently sealed.
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail				7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts				7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				7	7	
(Type : GALVANIZED)						
Sidewalk				X	X	
Girder/Beam						
Cover Plate				X	X	
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, 3 Spans, Lengths(m): 19-22-19, A-Ident Number: A1010-01)				
Paint Condition		X	7	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		3	7	A1, P1, P2 A2
Temperature (deg. C)	18			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
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		3	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	Coating is cracked and peeling at wingwalls.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Steel pipe.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6)				Some rust & peeling of paint near waterline.
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		4	4	Failing @ waterline.
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Drift at both piers - photo.
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		6	6	Class 1 rock at base of slope protection. Trees at SE hslp.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
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	2013	At both piers.					
OTHER ACTION	2013	Touch-up paint at waterline area.					
OTHER ACTION	2013	Seal crack at end of approach slabs.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/77.8	Sufficiency Rating (Last/Now) (%)	58.3/68.3	Est. Repl. Yr	2054	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)	Y						
Proposed Action	Replace top 50mm ACP in 2009 by HMC, Chip seal in 2011. RS						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	19-Jul-2014		Previous Inspection Date	03-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							