

Bridge Inspection							
Bridge File Number	79761 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1982/1982			Lot No.	1		
Bridge or Town Name	CARSELAND			Inspector Name	Tom Carey		
Located Over	BRP - IRRIGATION C, WATERCRS-IC			Inspector Class	BR CLS A		
Located On	24:02 C1 37.877			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	20-Feb-2013		
Legal Land Location	SE SEC 32 TWP 21 RGE 25 W4M			Data Entry By	Anne Roberts		
Longitude, Latitude	-113:25:31, 50:49:27			Data Entry Date	19-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA30			Review Date	03-Mar-2013		
Clear Roadway/Skew	13.5 / -4 deg. (LHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	1,770 / 2011 (A)			Dept. Review Date	25-Mar-2013		
Road Classification	RAU-213-120			Follow-Up By			
Detour Length (km)	5						
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)	In Advance (Y/N)	At Bridge (Y/N)		
Posted:	Lane	SB	At Junction (Y/N)	In Advance (Y/N)	At Bridge (Y/N)		
Remarks	Not Required						
Hazard Marker At Bridge (Y/N)	No						
Remarks							
Other Sign Types	Curve						

Utilities (Located at)							
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE						
Telephone	West row			Gas			
Power	3w - 25 West			Municipal			
Others				Problem (Y/N)	No		
Remarks							

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		5	5	Bridge on curve (superelevated), rises South.	
Vertical Alignment		5	5		
Roadway Width (m)	13.500			Pot hole 300 mm dia. at NB lane at approach ACP at south	
Approach Bump		6	5		
Guardrail (Y/N)	Yes				
Guardrail		5	5		
Length (m)	65.000			Not thriebeam	
Current Standard (Y/N)	No				
Termination Type	TURNED DOWN				
Drainage		7	7		
Approach Road General Rating		5	5		

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 2 Spans, Lengths(m): 22-22, A-Ident Number: A0911-01)						
Special Features						
Special Feature						
(Type :)						
Special Feature						
(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			6	5	Moderate transverse & longitudinal cracks. Cracks are more prominent at South span. Cast deck.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	5	Both joints are noisy.	
Temperature (deg. C)		-6				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
70		South abutment				
90		North abutment				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Light scaling @ 10% of tops. Surface spalls @ some @ faces. Worst at North East.	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			8	6	Insufficient thread at 8 bolts. Missing splice bolt at west.	
(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		
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 22-22, A-Ident Number: A0911-01)				
Paint Condition		X	X	Weathering Steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		3	3	Over expanded @ South as much as 50 mm. South anchor bolts bent 25 - 50mm out of plumb. South abutment is jammed & bending bolts in summer. 3rd bearing from West one bolt that was cracked is now broken off. 2nd bearing from west - one bolt is cracked.
Temperature (deg. C)	18			
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	No			
Deck Underside		6	6	Hairline and alligator cracks. Some leaching.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
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	
Paint/Coating		4	4	Isolated peeling at abut. Peeling at wingwalls - Worst at South East.
Abutment Stability		7	7	appears some new movement south due to breaking and cracked anchor bolts at some abut. bearings.
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 7)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Rusting at waterline
(Colour Description : BROWN)				
(Colour Code : 30252)				
Pier Stability		8	8	
Scour		N	N	Ice
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	5.0			
Drift (Y/N)	No			
Slope Protection		8	8	150mm dia average rock @ toe. Pit run @ slopes.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2014	Install 1 splice bolt at west rail.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2014	Fill pothole at NB lane at south approach.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2014	Shim plates at both abutments.					
RESET/ PAINT BEARINGS	2014	Reset or rehab bearing at abut. 1. Repair/replace 2 A/B. Slot South abutment bearing plates to stop A/B's from cracking / breaking or consider resetting south abut bearing.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2014	Re-coat wingwalls.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	62.2/62.2	Est. Repl. Yr	2032	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	20-Nov-2014		Previous Inspection Date	18-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							