

Bridge Inspection												
Bridge File Number	82408 -1 Bridge						Form Type	PSR				
Year Built/Year Supstr	2007/2007						Lot No.	2				
Bridge or Town Name							Inspector Name	Garry Roberts				
Located Over	201:08 R1 13.184;201:08 L1 13.018						Inspector Class	BR CLS A				
Located On	SHAGANAPPI TRAIL						Assistant Name					
Water Body Cl./Year							Assistant Class					
Navigabil. Cl./Year							Inspection Date	19-Aug-2011				
Legal Land Location	NW SEC 19 TWP 25 RGE 1 W5M						Data Entry By	Erin Roberts				
Longitude, Latitude	-114:08:25, 51:09:07						Data Entry Date	06-Sep-2011				
Road Authority	Alberta Transportation (AIT)						Reviewer Name	Tom Carey				
Contract Main. Area	DEERFOOT/STONE Y						Review Date	24-Aug-2011				
Clear Roadway/Skew	16.6 /						Dept. Reviewer Name	Tim Davies				
AADT/Year	12,000 / 2008 (E)						Dept. Review Date	08-Sep-2011				
Road Classification							Follow-Up By					
Detour Length (km)												
Allowable Load (t):	Single			Semi			Train				----> On Critical Spans ---->Critical Member	
Design Loading:											----> Primary Span	

Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 201 L1 6.9m, 201 R1 7.1m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	EB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	
Remarks													
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	Route												

Utilities (Located at)												
Utility Attachments												
Telephone							Gas					
Power	Box @ NE						Municipal	Light Standards				
Others	Underside Deck Lighting						Problem (Y/N)	No				
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves @ both ends top of vertical curve
Vertical Alignment		7	7	
Roadway Width (m)	14.000			Concrete barriers East side.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	8	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	Bevel			
Drainage		7	8	
Approach Road General Rating		6	6	

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : NU, 2 Spans, Lengths(m): 52.5-52.5, 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			8	8	Isolated patches.		
(Material Type : ACP)							
(Thickness(mm) : 90)							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N	Paved over.		
Deck Rideability			8	8			
Deck Joints			8	8	At Abuts only		
Temperature (deg. C)		18					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
80		North Abut					
80		South Abut					
Deck Drainage			7	7			
Drains Clogged (Y/N)		No					
Curbs/Median			8	8	concrete parapet- random narrow cracks.		
(Curb Type : JERSEY/F SHAPE)							
Scaling (Percent Area)		0					
Bridge Rail			X	X	Pigmented sealer. Isolated peeling.		
(Type :)							
Bridge Rail Posts			X	X			
(Type :)							
Bridge Rail/Posts Coating			X	6			
(Type :)							
Sidewalk			7	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	0	0			
Girders			4	4	Hairline web cracks at piers ends are marked from previous Level 2 inspection. Currently rated "4" until NU girder rating guide is available.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : 6)							
Diaphragms/Cross Frame			8	8			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 2 Spans, Lengths(m): 52.5-52.5, A-Ident Number:)				
Bearings		6	6	Slight debonding and approx 12mm displacement of teflon slider at Abut.2- G2,G3,G4, and Abut.1- G2. Should be addressed prior to bearing warranty expiration.
Temperature (deg. C)	18			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		7	7	Pigmented sealer.
Abutment Stability		9	9	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				On concrete piles
Bearing Seats/Caps		9	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		9	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	7	Pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		X	X	
Type				
Slope Protection		4	4	70mm separation at top of South abut. headslope and 35mm separation between SE trough and wing.
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Grout top of South concrete slope protection and SE wing- seal with caulking					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	58.6/53.1	Est. Repl. Yr	2078	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Upgrade NU girder grading when new guide is available in 2009. Monitor teflon slider debonding at abut bearings. Should address teflon displacement prior to bearing warranty expiration.		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	19-May-2013		Previous Inspection Date	22-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							