

Bridge Inspection									
Bridge File Number	82401 S2-4 Bridge				Form Type	PSR			
Year Built/Year Supstr	2009/2009				Lot No.	3			
Bridge or Town Name	Deerfoot - Stoney Trail North Interchange				Inspector Name	Garry Roberts			
Located Over	201:08 R1 24.071				Inspector Class	BR CLS A			
Located On	2:15 L1 48.671				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	21-Aug-2011			
Legal Land Location	SW SEC 33 TWP 25 RGE 29 W4M				Data Entry By	Alyssa Boynton			
Longitude, Latitude	-114:00:04, 51:10:25				Data Entry Date	09-Sep-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONEY				Review Date	24-Aug-2011			
Clear Roadway/Skew	20.4 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	66,090 / 2010 (A)				Dept. Review Date	16-Sep-2011			
Road Classification					Follow-Up By				
Detour Length (km)									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CL800						----> Primary Span		

Posting Information										
Required Vert. Clearance Posting (m)	UNDER: 201 R1 6.0m									
Posted Vertical Clearance (Y/N)	Yes									
Posted:	Lane	EB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks										
Required Load Posting (t)	Single		Semi		Truck Train					
Posted Loading (t)	Single		Semi		Truck Train					
Posted:	Lane	WB	At Junction (Y/N)	In Advance (Y/N)		At Bridge (Y/N)				
Posted:	Lane	EB	At Junction (Y/N)	In Advance (Y/N)		At Bridge (Y/N)				
Remarks	Not req.									
Hazard Marker At Bridge (Y/N)	No									
Remarks	Not req.									
Other Sign Types										

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	Under deck and at SW				Municipal	Light standards			
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Thriebeam is continuous at approach end back to BF.				
Vertical Alignment			8	8					
Roadway Width (m)									
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	99.000								
Current Standard (Y/N)	Yes								
Termination Type	Attenuator								
Drainage			7	4	Minor erosion gullies at North West - not affecting bridge. Erosion at South West 7 x 0.5m gully.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : NU, 1 Spans, Lengths(m): 44.5, 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	
(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	Gland at Abut. 1 Oil based sealant at Abut. 2
Temperature (deg. C)		23			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
65	Abut. 1- South				
60	Abut. 2- North				
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	7	Minor 100x150 spall at NE exterior parapet.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		0			
Bridge Rail			X	X	Pigmented sealer at parapet and girder exteriors.
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			8	8	
(Type :)					
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			8	8	No visible cracking
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 8)					
Diaphragms/Cross Frame			9	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 1 Spans, Lengths(m): 44.5, A-Ident Number:)				
Bearings		9	8	Exp. at Abut. 1 Fixed at Abut. 2- exterior 2 girders at both sides have teflon sliders.
Temperature (deg. C)	23			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
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		8	8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	Access hatch between G4-G5
Wingwalls		8	4	Crack and 300 x 500 spall at base of North West wing.
Piles		N	N	Buried.
Paint/Coating		8	8	Pigmented sealer.
Abutment Stability		9	8	
Scour/Erosion		5	7	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
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		5	6	Minor crack at North West and settled 40mm.
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	7	
Drainage		7	7	
Grade Separation General Rating		5	6	

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	2012	Repair North West wing spall.					
OTHER ACTION	2012	Repair South West erosion gully.					
OTHER ACTION	2011	Install V.C. sign in advance East bounds.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	71.8/73.4	Est. Repl. Yr	2081	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	21-May-2013		Previous Inspection Date	25-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							