

Bridge Inspection											
Bridge File Number	79206 -1 Bridge					Form Type	CON				
Year Built/Year Supstr	1982/1982					Lot No.	2				
Bridge or Town Name	CALGARY - SOUTHLAND DRIVE OVER DEERFOOT TRAIL					Inspector Name	Garry Roberts				
						Inspector Class	BR CLS A				
Located Over	2:15 R1 22.094;2:15 L1 22.187;RAMP 4096-1 C					Assistant Name					
						Assistant Class					
Located On	10233:02 R1 0.131;10233:02 L1 0.129					Inspection Date	24-Jan-2013				
Water Body Cl./Year						Data Entry By	Lauren Korte				
Navigabil. Cl./Year						Data Entry Date	15-Feb-2013				
Legal Land Location	SE SEC 23 TWP 23 RGE 1 W5M					Reviewer Name	Tom Carey				
Longitude, Latitude	-114:02:03, 50:58:02					Review Date	30-Jan-2013				
Road Authority	Alberta Transportation (AIT)					Dept. Reviewer Name	Tim Davies				
Contract Main. Area	DEERFOOT/STONE Y					Dept. Review Date	21-Feb-2013				
Clear Roadway/Skew	23 /					Follow-Up By					
AADT/Year	40,000 / 2007 (E)										
Road Classification	RLU-208-100										
Detour Length (km)	16										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	HS25					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 7.3m, 2 R1 6.0m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	6.0	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	6.9	In Advance (Y/N)	No
Remarks												
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	EB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)			
Remarks			Not required.									
Hazard Marker At Bridge (Y/N)			No									
Remarks			Not required.									
Other Sign Types												

Utilities (Located at)				
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE			
Telephone	In area.		Gas	
Power	West ROW.		Municipal	
Others	Lights.		Problem (Y/N) No	
Remarks	Conduit on North parapet.			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Controlled intersections both ends. B2166
Vertical Alignment		5	5	
Roadway Width (m)		23.000		Parapets- misaligned 150mm at SW against traffic.
Approach Bump		5	6	
Guardrail (Y/N)		Yes		
Guardrail		4	3	
Length (m)		14.000		
Current Standard (Y/N)		Yes		
Termination Type		TURNDOWN		
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : CB, 2 Spans, Lengths(m): 44-38, 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	20.0	0.0	0.0	0.0		
Wearing Surface			7	7	Hairline map cracks.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7	Median joint covered with neoprene and steel plates.	
Temperature (deg. C)		2				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
70		E abut				
65		W abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			5	3	Neoprene and steel plates over median joint. Light scaling @ North. 30% snow covered. Isolated areas of cracks & corrosion @ low cover rebar. Spalling at 8 areas at lower South exteriors most are over traffic.	
(Curb Type : JERSEY/F SHAPE)						
Scaling (Percent Area)		10				
Bridge Rail			7	7	Steel rail on top of North parapet.	
(Type : STEEL BRIDGE TUBE)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	6		
(Type :)						
Sidewalk			6	6	Hairline map cracks and 2 wide cracks.	
Girders			7	6	Medium vertical crack @ inside @ SW gird- Sp.1-G1.	
Diaphragms/Cross Frame			7	7		
Bearings			7	7	Integral at pier.	
Temperature (deg. C)		2				
(Expansion Type : POT BEARING)						
(Fixed Type :)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside			6	6	Stains between 50mm gap between structures. Isolated scaling and corrosion stains @ underside of deck exterior.	
Stains (Percent Area)		5				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CB, 2 Spans, Lengths(m): 44-38, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		4	4	Isolated peeling and staining.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Integral.
Bearing Seats/Caps		8	8	
(Type :)				
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		7	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	Curves both ends. Concrete roadway.
Traffic Safety Features		6	6	
Type	PARAPET			
Slope Protection		5	5	Heaved at isolated areas and settled 50mm at tops. Most rates 7.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair exterior parapet spalls approx 8 locations (1m2). Reset SE parapet.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT 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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	59.0/59.0	Est. Repl. Yr	2048	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	24-Oct-2014		Previous Inspection Date	20-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							