

Bridge Inspection										
Bridge File Number	79208 -1 Bridge					Form Type	CON			
Year Built/Year Supstr	1982/1982					Lot No.	1			
Bridge or Town Name	CALGARY - DEERFOOT TRAIL OVER ANDERSON ROAD					Inspector Name	Garry Roberts			
						Inspector Class	BR CLS A			
Located Over	RAMP 4097-1 E;ANDERSON ROAD;RAMP 4097-1 D					Assistant Name				
						Assistant Class				
Located On	2:15 R1 20.446;2:15 L1 20.536					Inspection Date	26-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 14 TWP 23 RGE 1 W5M					Reviewer Name	Tom Carey			
Longitude, Latitude	-114:01:33, 50:57:13					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	42.6 /					Follow-Up By				
AADT/Year	131,410 / 2011 (A)									
Road Classification	RFD-412.4-130									
Detour Length (km)	1									
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: 4097-1-D 5.9m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.8	In Advance (Y/N)	No
Remarks		POSTED @ 19-2" ALSO										
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												
Other Sign Types		40KM/HR & 30KM/HR @ RAMP ROUTE										

Utilities (Located at)										
Utility Attachments		TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE								
Telephone	To East.					Gas				
Power	Conduit East side.					Municipal		Manhole @ East.		
Others	Light standards.					Problem (Y/N)		Yes		
Remarks		Underside deck lighting. Open electrical box at North West.								

Approach Road									
				Last	Now	Explanation of Condition			
Horizontal Alignment				6	6	On curve & superelevation B2162			
Vertical Alignment				7	7				
Roadway Width (m)		43.000				Pothole with exposed rebar at South approach at N/B lanes-4m2. Pothole at North approach at N/B lanes- 1m2.			
Approach Bump				4	3				
Guardrail (Y/N)		Yes				Parapets.			
Guardrail				6	6				
Length (m)		34.000							
Current Standard (Y/N)		No							
Termination Type		TURNDOWN							
Drainage				5	6				
Approach Road General Rating				6	6				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 3 Spans, Lengths(m): 11.3-16.9-12, A-Ident Number:)					
Special Features					
Special Feature			5	At East side signs & 4 lights. Gap at anchor bolt plate at 2nd leg is exposing anchor bolts.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	20% snow covered at gutters.
Now	20.0	0.0	0.0	0.0	
Wearing Surface		6	6	Map cracking @ Lafarge lane.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		3	3	Leaking @ South abut @ gap between structures. South abut. seal has been 60% removed and replaced with AIFB and Koch oil. - is missing for 2m at East. Active leakage at North abut full length.	
Temperature (deg. C)		1			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
60	N abut				
50	S abut				
Deck Drainage		4	4	Open joint at center median causing isolated corrosion.	
Drains Clogged (Y/N)		No			
Curbs/Median		4	4	Corrosion stains & cracks @ center only - isolated areas with exposed rebar. New East Parapet.	
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		2			
Bridge Rail		X	X		
(Type :)					
Bridge Rail Posts		X	X		
(Type :)					
Bridge Rail/Posts Coating		X	X		
(Type :)					
Sidewalk		X	X		
Girders		X	X	Slab.	
Diaphragms/Cross Frame		X	X		
Bearings		7	7		
Temperature (deg. C)		1			
(Expansion Type : POT BEARING)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside		3	3	Slab. Corrosion stains @ 50mm gap. Spalling 2m2 at North abut at N/B.	
Stains (Percent Area)		5			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 3 Spans, Lengths(m): 11.3-16.9-12, A-Ident Number:)				
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		4	6	Wide vertical crack at North abut under longitudinal joint.
Backwalls/Breastwalls		4	4	Spall/crack at North West abutment at breastwall- 0.5m2. 1m2 delam. at South under SBL.
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		3	3	Scaling at NW and NE abutment. Staining and corrosion staining at South abutment.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		8	7	Pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Curve.
Traffic Safety Features		7	7	
Type	PARAPETS			
Slope Protection		5	5	Concrete.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

Next Inspection Date	26-Oct-2014	Previous Inspection Date	22-Apr-2011
Inspection Cycle (Default) (months)	21		
Comment			