

Bridge Inspection									
Bridge File Number	79401 SR3-1 Bridge					Form Type	CON		
Year Built/Year Supstr	1982/1982					Lot No.	1		
Bridge or Town Name	CALGARY					Inspector Name	Garry Roberts		
Located Over	RAMP 4097-1 J					Inspector Class	BR CLS A		
Located On	RAMP 4097-1 L;RAMP 4097-1 B					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	26-Jan-2013		
Legal Land Location	NE SEC 11 TWP 23 RGE 1 W5M					Data Entry By	Lauren Korte		
Longitude, Latitude	-114:01:35, 50:56:58					Data Entry Date	15-Feb-2013		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey		
Contract Main. Area	DEERFOOT/STONE Y					Review Date	30-Jan-2013		
Clear Roadway/Skew	20.2 /					Dept. Reviewer Name	Tim Davies		
AADT/Year	20,000 / 2007 (E)					Dept. Review Date	21-Feb-2013		
Road Classification	RLU-208-100					Follow-Up By			
Detour Length (km)	6								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> Primary Span		

Posting Information										
Required Vert. Clearance Posting (m)	UNDER: 4097-1-J 6.4m									
Posted Vertical Clearance (Y/N)	Yes									
Posted:	Lane	EB	On Bridge (m)	5.8	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks	Also signed as 19'2" on bridge.									
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										

Utilities (Located at)										
Utility Attachments	POWER UTILITIES-POWER LINE									
Telephone						Gas				
Power	3W 20m South.					Municipal	Manhole @ SW & NW.			
Others	Light standard.					Problem (Y/N)	No			
Remarks	Underside deck lights.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curves B2165A Downgrade to North. Deck on curve & superelevation.				
Vertical Alignment			5	5					
Roadway Width (m)	20.000				Pothole at South approach at 1st lane at West.				
Approach Bump			4	4					
Guardrail (Y/N)	Yes				SW Leaning and misaligned 250mm - Not projecting into traffic.				
Guardrail			5	5	Parapets.				
Length (m)	52.000								
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					

Approach Road				
		Last	Now	Explanation of Condition
Approach Road General Rating		5	5	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 3 Spans, Lengths(m): 11-14-11, A-Ident Number:)				
Special Features				
Special Feature			7	nCrash Barrier @ South.
(Type :)				
Special Feature			X	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last	0	0	0	0
Now	10.0	0.0	0.0	0.0
Wearing Surface		6	6	
(Material Type : CONCRETE)				
(Thickness(mm) : 50)				
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		3	3	Active leaking and deterioration at both abutments and deck underside.
Temperature (deg. C)		3		
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
(Fixed Type :)				
Gap Size (mm)		Gap Location		
45		N abut		
45		S abut		
Deck Drainage		4	4	Gap 45mm, median-between structures causing deck corrosion. No drains
Drains Clogged (Y/N)				
Curbs/Median		4	4	Corrosion & spalls at low cover rebar at center parapet NB & SB.
(Curb Type : JERSEY/F SHAPE)				
Scaling (Percent Area)		10		
Bridge Rail		X	N	
(Type : PARAPET RAIL)				
Bridge Rail Posts		X	X	
(Type :)				
Bridge Rail/Posts Coating		X	X	
(Type :)				
Sidewalk		X	X	
Girders		X	X	Slab -50mm gap between NB &SB structures-stains & corrosion stains.
Diaphragms/Cross Frame		X	X	
Bearings		5	6	50% corrosion at NW and all South bearings.
Temperature (deg. C)		3		
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)		No		
Functioning (Y/N)		Yes		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 3 Spans, Lengths(m): 11-14-11, A-Ident Number:)				
Deck Underside		3	3	Scaled concrete @ South abut @ underside of slab and spalling. Repaired at NE. Isolated spall at NW front joint leakage.
Stains (Percent Area)	3			
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		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		3	3	Failed at NW and SW.
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		6	6	Pigmented sealer.
(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	Curve.
Traffic Safety Features		6	6	
Type	PARAPETS			
Slope Protection		4	5	Slab cracks @ piers 50 mm gaps at wingwalls and abut ends.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
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						
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS	2013	Patch & seal parapets at center approx 10m2.				
PATCH DECK	2013	Deck underside at South median, NW and South abut approx 3m2.				
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2013	Replace both abutment joints.				
RESET/ PAINT BEARINGS	2013	Repaint at NW and all South bearings (6).				
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Blast and seal NW and SW abutments.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	50.0/50.0	Est. Repl. Yr	2046	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Department Comments
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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	26-Apr-2016	Previous Inspection Date	25-Apr-2011
Inspection Cycle (Default) (months)	39		

Comment	
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