

Bridge Inspection												
Bridge File Number	82009 -1 Bridge				Form Type	PSR						
Year Built/Year Supstr	2004/2004				Lot No.	2						
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts						
Located Over	2:15 R1 13.891;2:15 L1 13.989				Inspector Class	BR CLS A						
Located On	MCKENZIE BOULEVARD:02 R1 0.203;MCKENZIE BOULEVARD:02 L1 0.208				Assistant Name							
Water Body Cl./Year					Assistant Class							
Navigabil. Cl./Year					Inspection Date	01-Feb-2013						
Legal Land Location	NE SEC 32 TWP 22 RGE 29 W4M				Data Entry By	Erin Roberts						
Longitude, Latitude	-113:58:33, 50:54:59				Data Entry Date	28-Feb-2013						
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey						
Contract Main. Area	DEERFOOT/STONEY				Review Date	07-Feb-2013						
Clear Roadway/Skew	19.3 / 1 deg. (RHF)				Dept. Reviewer Name	Tim Davies						
AADT/Year	20,300 / 2005 (E)				Dept. Review Date	04-Mar-2013						
Road Classification	UCU-414-70				Follow-Up By							
Detour Length (km)	1											
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CS750										----> Primary Span	

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)					Yes							
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	No
Remarks												
Required Load Posting (t)					Single		Semi		Truck Train			
Posted Loading (t)					Single		Semi		Truck Train			
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	EB	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					Not Required							
Other Sign Types					Pedestrian, Max 60							

Utilities (Located at)												
Utility Attachments												
Telephone	In area.						Gas					
Power	4 lines OH xing East Abut.						Municipal	Storm/Sewer				
Others	Light standard all 4 corners.						Problem (Y/N)	No				
Remarks												
Lights @ Abuts & Piers												

Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				7	7	Intersection at both ends controlled by traffic lights.							
Vertical Alignment				6	6								
Roadway Width (m)				19.000		Wide transverse crack at end of approach slab, full width of road - up to 25mm settlement. Potholes forming at both ends.							
Approach Bump				4	4								
Guardrail (Y/N)				Yes		Parapets at NW, NE and SW. 100mm misalignment with bridge parapet at SW and NE with 150mm.							
Guardrail				4	4	HSS galvanized rail at SE has 2 bent posts not supporting rail.							
Length (m)				34.200									
Current Standard (Y/N)				No									
Termination Type				sloped									
Drainage				3	3	Eroding beside and under trough drains at NW and NE. Approach drainage through ACP joints is causing spalling, scaling and staining. Undermined at NE approach slab.							
Approach Road General Rating				6	6								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PB, 2 Spans, Lengths(m): 38-38, 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	10.0	0.0	0.0	0.0	
Wearing Surface			6	6	PMA rates 8. Shallow surface spalls developing in concrete gutterline North side.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over
Deck Rideability			8	8	
Deck Joints			X	X	Integrated. Only saw cuts in PMA
Temperature (deg. C)					
(Expansion Type : OTHER)					
(Fixed Type : OTHER)					
Gap Size (mm)		Gap Location			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Random vertical cracks in concrete parapet Spall at underside of NE parapet. Concrete median is 70% snow and gravel covered.
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Steel continuous on top of North Barrier Pedestrian rail @ south Alternating steel panel/con. panel railing South Side Hardware is corroding
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type :)					
Sidewalk			5	5	75mm settlement at East end of sidewalk at approach ACP And 50mm at west.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			8	8	6 continuous girder lines.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 12)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 2 Spans, Lengths(m): 38-38, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		N	N	Cast into abuts/pier
Temperature (deg. C)				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)				
Functioning (Y/N)				
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	N	Integral
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		4	4	Stained and peeling at all abut. ends and wingwalls from approach/roof slab joints in ACP and parapet caulking.
Abutment Stability		8	8	
Scour/Erosion		7	X	
Piers/Bents				
(Type : PIER-SOLID)				Not visible, cast into girders.
Bearing Seats/Caps		N	N	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
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		8	8	
Type	Barrier			
Slope Protection		8	8	
(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	2013	Repair 0.4m ² parapet spall at NE.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Replace parapet caulking at 4 corners approx 12 LM.					
PATCH DECK							
SEAL DECK	2013	Seal wide tranv. ACP crack at end of approach slabs and roof slabs.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Repair erosion channel at all wingwalls with ACP patching material- 1m ³ . Grout under NE approach slab approx 2m ³ .					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Patch sidewalk approach ACP - both ends.					
OTHER ACTION	2013	Realign NW and SW barriers and repair 2 HSS posts at SE.					
OTHER ACTION	2013	Clean and reseal all abut. ends and wingwalls. Recaulk parapets above.					
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	69.8/69.8	Est. Repl. Yr	2076	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	01-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							