

Bridge Inspection													
Bridge File Number	79207 -1 Bridge					Form Type	CON						
Year Built/Year Supstr	1982/1982					Lot No.	1						
Bridge or Town Name	CALGARY - HIGHWAY 2 OVER ANDERSON ROAD					Inspector Name	Garry Roberts						
						Inspector Class	BR CLS A						
Located Over	10232:02 R1 0.886;RAMP 4097-1 E					Assistant Name							
Located On	2:15 R1 20.350;2:15 L1 20.440					Assistant Class							
Water Body Cl./Year						Inspection Date	26-Jan-2013						
Navigabil. Cl./Year						Data Entry By	Lauren Korte						
Legal Land Location	SW SEC 13 TWP 23 RGE 1 W5M					Data Entry Date	15-Feb-2013						
Longitude, Latitude	-114:01:28, 50:57:12					Reviewer Name	Tom Carey						
Road Authority	Alberta Transportation (AIT)					Review Date	30-Jan-2013						
Contract Main. Area	DEERFOOT/STONEV					Dept. Reviewer Name	Tim Davies						
Clear Roadway/Skew	10 /					Dept. Review Date	21-Feb-2013						
AADT/Year	117,760 / 2011 (A)					Follow-Up By							
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: 10232 R1 6.0m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	EB	On Bridge (m)	6.1	In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	EB traffic only.												
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	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE												
Telephone	To east.					Gas							
Power	Conduit on East side, South ROW and SW wing.					Municipal							
Others	Light standards.					Problem (Y/N)	Yes						
Remarks	Underside deck lighting - missing lens and light at East end South pier.												
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				6	6	On curve & superelevation.							
Vertical Alignment				6	6	Grade down to North B2161							
Roadway Width (m)	36.000					Potholes at North approach in S/B lanes and South approach at S/B and N/B lanes.							
Approach Bump				4	4								
Guardrail (Y/N)	Yes					Not thriebeam.							
Guardrail				6	6								
Length (m)	99.000												
Current Standard (Y/N)	No												
Termination Type	TURNDOWN												
Drainage				7	7								
<b>Approach Road General Rating</b>				<b>6</b>	<b>6</b>								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 3 Spans, Lengths(m): 18.4-28.1-15.1, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	20% snow covered at gutters.
<b>Last</b>	0	0	0	0	
<b>Now</b>	20.0	0.0	0.0	0.0	
Wearing Surface			4	4	Map cracking @ Lafarge lane - sealed in between bridges North and South. 3m2 spall at NBL Sp.3 inside lane. (1m2 area of broken concrete at N/B outside lane at S1) Could not confirm.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			7	6	
Deck Joints			6	4	Active leakage at North joint.  40mm at East bridge A1 and 55 at A2.
Temperature (deg. C)		1			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
60	N abut				
70	S abut				
Deck Drainage			4	4	No drains. Open longitudinal causing isolated corrosion.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Parapets. 30% snow covered. New Parapet @ East. (Median parapet corrosion scaling and exposed rebar. Wide cracking at S1 at west side) Could not confirm. Bottom of West parapet spalled at S2.
(Curb Type : )					
Scaling (Percent Area)		10			
Bridge Rail			X	N	
(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	Some corrosion @ masonry plates -not affecting bearing.
Temperature (deg. C)		1			
(Expansion Type : <b>POT BEARING</b> )					
(Fixed Type : <b>POT BEARING</b> )					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			4	4	Isolated corrosion stains.  Between E & W structures @ open 50mm gap. Isolated corrosion stains & surface and spall at North end under median. Spall deck underside at NW and at SE.
Stains (Percent Area)		5			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 3 Spans, Lengths(m): 18.4-28.1-15.1, A-Ident Number: )				
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		6	7	
Backwalls/Breastwalls		5	5	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		3	3	Scaling at SW and SE and NW abutment.
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
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			
<b>Substructure General Rating</b>		<b>6</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	Curve.
Traffic Safety Features		7	7	
Type	PARAPETS			
Slope Protection		3	3	Cracked @ SE/NW/NE @ end of abut and open gaps at all corners. Undermining @ NE.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

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 and seal center and West barrier.					
PATCH DECK	2013	1m2 area at outside N/B lane at S1 and 3m2 at inside lane.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Flood both joint seals and repair/replace.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch potholes North and South approaches at S/B lanes and approach at N/B lanes approx 4m2.					
OTHER ACTION	2013	Repair lighting East end South pier or install cover plate.					
OTHER ACTION	2013	Patch deck underside @ NW,SE and North end under median approx 1m2 total. Clean and recoat both abuts.					
OTHER ACTION	2013	Fabricate and install parapet cover plate to seal open joint at median barrier.					
OTHER ACTION	2013	Repair approx. 6m <sup>2</sup> at NE - seal cracks at all corners at concrete slope protection.					
OTHER ACTION							
OTHER ACTION							
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OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>34.4/36.6</b>	Est. Repl. Yr	2046	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	Tom Carey	Previous Assistant's Name	
Next Inspection Date	26-Oct-2014	Previous Inspection Date	22-Apr-2011
Inspection Cycle (Default) (months)	21		
Comment			