

Bridge Inspection										
Bridge File Number	73907 E-4 Bridge				Form Type	CON				
Year Built/Year Supstr	1971/1971				Lot No.	3				
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts				
Located Over	2:15 R1 35.232;2:15 L1 35.338				Inspector Class	BR CLS A				
Located On	1:09 R1 19.340				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	20-Nov-2012				
Legal Land Location	NE SEC 23 TWP 24 RGE 1 W5M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-114:01:38, 51:03:59				Data Entry Date	29-Nov-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	DEERFOOT/STONEV				Review Date	27-Nov-2012				
Clear Roadway/Skew	22 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	50,000 / 2007 (E)				Dept. Review Date	06-Dec-2012				
Road Classification	RLU-208-100				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20				----> Primary Span					

Posting Information											
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.3m, 2 R1 5.3m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	NB	On Bridge (m)	5.1	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No
Remarks	S/B posting is on 73794 W										
Required Load Posting (t)	Single				Semi				Truck Train		
Posted Loading (t)	Single				Semi				Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No			
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											
Other Sign Types	ROUTE 60KM/HR, 50KM/HR RAMP										

Utilities (Located at)											
Utility Attachments	GAS UTILITIES-GAS LINE; POWER UTILITIES-POWER LINE										
Telephone					Gas	At North West					
Power	6W to E & S - conduits @ s parapet				Municipal	Manhole @ E&W approaches					
Others	Light standards and underside deck lighting				Problem (Y/N)	Yes					
Remarks	Open utility box at SW parapet and damaged box at SW.										

Approach Road										
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>					
Horizontal Alignment			5	5	Ramps and controlled intersections E&W					
Vertical Alignment			5	5	Bridge on curve @ E					
Roadway Width (m)	18.000				West approach slab ramps to joint but adequate for urban speeds.					
Approach Bump			6	6						
Guardrail (Y/N)	Yes				200mmx150mm HSS on I-beam posts @ SE					
Guardrail			5	5	Continuous concrete parapets @ 3 other corners					
Length (m)	82.000				Minor spalls at NE.					
Current Standard (Y/N)	Yes									
Termination Type	END OF HSS									
Drainage			7	7						
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 2 Spans, Lengths(m): 44.2-44.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			7	Overhead sign at east span. #188	
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface		6	9	New HPC overlay in 2012. Painted lane markings and turn arrows have worn off.	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>70</b> )					
Deck Top		N	N		
Deck Rideability		6	8		
Deck Joints		4	9		
Temperature (deg. C)		-11			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
80	E abut				
80	W abut				
Deck Drainage		5	5	Minor ponding at isolated sidewalk areas. 1 drain over south pier at sidewalk.	
Drains Clogged (Y/N)		No			
Curbs/Median		4	8	Several repaired areas. 40% snow covered on traffic side.	
(Curb Type : <b>JERSEY/F SHAPE</b> )					
Scaling (Percent Area)		5			
Bridge Rail		5	9	Galv. pedestrian rail at exterior sidewalk parapet only.	
(Type : )					
Bridge Rail Posts		5	9		
(Type : )					
Bridge Rail/Posts Coating		X	8		
(Type : )					
Sidewalk		6	6		
Girders		X	X	Voided slab	
Diaphragms/Cross Frame		X	X		
Bearings		N	N	Recessed & unable to see due to expanded metal. Visible only at North East. Integral at pier	
Temperature (deg. C)		-11			
(Expansion Type : <b>POT BEARING</b> )					
(Fixed Type : )					
Coating Adequate (Y/N)					
Functioning (Y/N)					
Deck Underside		3	7	Minor isolated scaling at exterior. Several repaired areas.	
Stains (Percent Area)		1			
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 2 Spans, Lengths(m): 44.2-44.2, A-Ident Number: )				
<b>Superstructure General Rating</b>		<b>3</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		5	8	
Backwalls/Breastwalls		7	7	
Wingwalls		6	7	
Piles		N	N	Buried
Paint/Coating		5	8	New pigmented sealer.
Abutment Stability		7	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Integral
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				Map cracks
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	Curves to both sides
Traffic Safety Features		5	5	Minor damage
Type	GUARDRAIL			
Slope Protection		4	7	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<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							
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	2013	Repair 2 utility boxes at SW.					
OTHER ACTION	2013	Restore painted lines and arrows (warranty?)					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.1/65.0</b>	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	20-Aug-2014		Previous Inspection Date	12-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							