

Bridge Inspection									
Bridge File Number	78903 S-2 Bridge				Form Type	SG			
Year Built/Year Supstr	1979/1979				Lot No.	2			
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts			
Located Over	WID - WID CANAL, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	2:15 L1 30.075				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	21-Jan-2013			
Legal Land Location	SW SEC 9 TWP 24 RGE 29 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-113:59:60, 51:01:32				Data Entry Date	06-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y				Review Date	29-Jan-2013			
Clear Roadway/Skew	15 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	134,930 / 2011 (A)				Dept. Review Date	21-Feb-2013			
Road Classification	RFD-616.6-130				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:	MS23						----> Primary Span		

Posting Information									
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	Not required.								
Other Sign Types	Bridge ices.								

Utilities (Located at)									
Utility Attachments									
Telephone	In area.				Gas				
Power	Multiple wires East.				Municipal		Manhole @ NW.		
Others	Light standards.				Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	7	Curves @ North. B3512B					
Vertical Alignment		7	8						
Roadway Width (m)		17.000		ACP Patches @ North and South approaches.					
Approach Bump		5	6						
Guardrail (Y/N)		Yes		Median Parapet cracked and corrosion stained @ SE.					
Guardrail		5	5						
Length (m)		60.000							
Current Standard (Y/N)		Yes							
Termination Type		Turndown							
Drainage		7	7						
Approach Road General Rating		6	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 31-34-31, A-Ident Number:)					
Special Features					
Special Feature			7	Low clearance buffer @ NW. Pedestrian walkway at North abut.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	Narrow transverse cracks.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Joints appear good from top Stained underneath @ North abut- suspect leakage. Active staining at NW.
Temperature (deg. C)		-5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
35		N abut			
10		S abut			
Deck Drainage			4	4	No drains. Drains onto North abutment and is corroding exterior bearing.
Drains Clogged (Y/N)		No			
Curbs/Median			4	N	Corrosion stains @ exterior @ West. (Random areas of surface spalls, cracks & corrosion @ low cover rebar). P.r 4. 60% snow covered.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		5			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 31-34-31, A-Ident Number:)				
Paint Condition		X	X	Scaling @ bottom flanges & lower web at exterior - weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		5	5	2nd from SW has torn teflon guide. Full expansion at South and North. NW exterior bearing corroded from joint leakage.
Temperature (deg. C)	-5			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Some efflorescence @ centre span. Isolated stains @ underside deck ext.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		4	4	Isolates spalls at SW.
Piles		N	N	Buried.
Paint/Coating		4	4	Peeling- minor.
Abutment Stability		7	7	
Scour/Erosion		4	4	Minor settlement under South abut.
Piers/Bents				
(Type : PIER-SOLID)				8 piles total.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				Curve @ East.
(D/S Direction : W)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)		No		
Slope Protection		7	7	Gabion @ SE. Class IM.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	Approx 20m ² parapets (if not already done).					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair Leakage @ North abut- flood seals.					
RESET/ PAINT BEARINGS	2013	Blast and recoat NW bearings.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	52.8/52.8	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	21-Oct-2014		Previous Inspection Date	19-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							