

Bridge Inspection											
Bridge File Number	78880 N-1 Bridge				Form Type	SG					
Year Built/Year Supstr	1978/1978				Lot No.	2					
Bridge or Town Name	CALGARY - BOW RIVER CALF ROBE BRIDGE				Inspector Name	Garry Roberts					
					Inspector Class	BR CLS A					
Located Over	BOW RIVER, 2.13, WATERCRS-ST				Assistant Name						
Located On	2:15 R1 27.327				Assistant Class						
Water Body Cl./Year					Inspection Date	22-Jan-2013					
Navigabil. Cl./Year					Data Entry By	Lauren Korte					
Legal Land Location	SW SEC 1 TWP 24 RGE 1 W5M				Data Entry Date	06-Feb-2013					
Longitude, Latitude	-114:01:14, 51:00:31				Reviewer Name	Garry Roberts					
Road Authority	Alberta Transportation (AIT)				Review Date	29-Jan-2013					
Contract Main. Area	DEERFOOT/STONEY				Dept. Reviewer Name	Tim Davies					
Clear Roadway/Skew	14.3 /				Dept. Review Date	21-Feb-2013					
AADT/Year	120,330 / 2011 (A)				Follow-Up By						
Road Classification	RFD-616.6-130										
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 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not Required.								
Other Sign Types	Surface sensor, location River ID-Bridge ices.								

Utilities (Located at)										
Utility Attachments	POWER UTILITIES-POWER LINE									
Telephone	at SE.				Gas					
Power	Multiples lines to SE.				Municipal	Sewage outlet @ SW.				
Others	Light standards.				Problem (Y/N)	Yes				
Remarks	Conduits on abuts and piers.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			4	5	Curves poor sight distance. Grade up to North. Bridge on double curve. B3117A				
Vertical Alignment			6	6					
Roadway Width (m)	15.000				Parapets.				
Approach Bump			3	6					
Guardrail (Y/N)	Yes								
Guardrail			5	5					
Length (m)	60.000								
Current Standard (Y/N)	Yes								
Termination Type	TURNDOWN								
Drainage			6	6					
Approach Road General Rating			4	5					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : WG, 5 Spans, Lengths(m): 30-51.5-61-51.5-30, 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	20			
Now	20.0	0.0	0.0	0.0			
Wearing Surface			3	8	Viewed from 4 corners. No visible problems.		
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			4	7			
Deck Joints			2	4	Bangs at A1 RH lane and fingers may be cracked, Cannot confirm-check during Deerfoot full closure.		
Temperature (deg. C)		-6					
(Expansion Type :)							
(Fixed Type : FINGER PLATES)							
Gap Size (mm)		Gap Location					
80		N abut					
65		S abut					
Deck Drainage			3	7	New backwall drain at both abuts.		
Drains Clogged (Y/N)		No					
Curbs/Median			3	8	Viewed from 4 corners. No visible spalling, 30% snow covered.		
(Curb Type : JERSEY/F SHAPE)							
Scaling (Percent Area)		2					
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	Catwalk at exterior bays.		
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, 5 Spans, Lengths(m): 30-51.5-61-51.5-30, A-Ident Number:)				
Paint Condition		X	X	Scaling @ bot flange bot of web. Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	7	
Temperature (deg. C)	-6			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Corrosion and efflorescence @ deck ext @ parapet joints. Isolated cracks with efflorescence.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		2	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		4	7	
Piles		N	N	Buried.
Paint/Coating		4	5	Graffiti covered.
Abutment Stability		8	5	
Scour/Erosion		6	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	P.1 and P.4 are graffiti covered.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	Water too deep to see at piers 2 and 3.
Debris (Y/N)	No			
Substructure General Rating		6	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	6	Cut bank at toe at South.
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		5	6	Rock @ headslopes. Natural @ toe.
(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	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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Check South finger joint-bangs loudly and may be loose.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Clean abut seats construction debris.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/66.7	Sufficiency Rating (Last/Now) (%)	32.1/56.1	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	22-Oct-2014		Previous Inspection Date	19-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							