

Bridge Inspection													
Bridge File Number	81799 ES-1 Bridge					Form Type	CON						
Year Built/Year Supstr	1992/1992					Lot No.	2						
Bridge or Town Name	CALGARY BEDD; HWY 2; NOSE CREEK; BEDDINGTON TRAIL					Inspector Name	Garry Roberts						
						Inspector Class	BR CLS A						
Located Over	CPR					Assistant Name							
Located On	772:01 L1 0.356					Assistant Class							
Water Body Cl./Year						Inspection Date	06-Jan-2013						
Navigabil. Cl./Year						Data Entry By	Lauren Korte						
Legal Land Location	SE SEC 15 TWP 25 RGE 1 W5M					Data Entry Date	28-Jan-2013						
Longitude, Latitude	-114:02:56, 51:07:32					Reviewer Name	Garry Roberts						
Road Authority	Alberta Transportation (AIT)					Review Date	17-Jan-2013						
Contract Main. Area	DEERFOOT/STONEV					Dept. Reviewer Name	Tim Davies						
Clear Roadway/Skew	9 / 30 deg. (RHF)					Dept. Review Date	29-Jan-2013						
AADT/Year	16,062 / 2001 (E)					Follow-Up By							
Road Classification	RLU-208-100												
Detour Length (km)	10												
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)													
Posted Vertical Clearance (Y/N)			No										
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	Not required.												
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	At Bridge (Y/N)	No			
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		At Bridge (Y/N)				
Remarks	Not required.												
Hazard Marker At Bridge (Y/N)		No											
Remarks													
Other Sign Types		60KM/HR RAMPS											
Utilities (Located at)													
Utility Attachments		TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE											
Telephone	Fibre optics span 2.					Gas							
Power	Main trans lines over East abut.					Municipal		Manhole at NW. Sewar to North.					
Others	Light standards.					Problem (Y/N)		No					
Remarks	Substation & Multiple lines at South.												
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				5	5	Ramp curve. B4318							
Vertical Alignment				5	5	Bridge on curve & superelevation.							
Roadway Width (m)		9.000											
Approach Bump				7	7								
Guardrail (Y/N)		Yes			Parapets. Minor spall at SE approach parapet and 200mm lean at top.								
Guardrail				5	4								
Length (m)		75.000											
Current Standard (Y/N)		Yes											
Termination Type		TURNDOWN											
Drainage				6	6								
Approach Road General Rating				5	5								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CB, 4 Spans, Lengths(m): 28.5-38-39.5-34, 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	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Intermittent crack at centerline.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top			N	N	Paved.
Deck Rideability			7	7	
Deck Joints			7	7	2 gland joint at both abut. 15-55-58mm- West abut. 50-60mm at East abut.
Temperature (deg. C)		-5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
50			E abut		
55			W abut		
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Wide spread hairline to narrow map crack and vertical crack. Some abrasion at parapets and peeling of pigmented coating.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Plastic Bridgerail.
(Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL)					
Bridge Rail Posts			7	7	
(Type :)					
Bridge Rail/Posts Coating			5	5	
(Type : PAINT)					
Sidewalk			X	X	
Girders			7	7	Hairline narrow and longitudinal cracks at bottom of boxes.
Diaphragms/Cross Frame			X	X	
Bearings			8	8	Pier 2 is integral.
Temperature (deg. C)		-5			
(Expansion Type : POT BEARING)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			8	8	
Stains (Percent Area)		0			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CB, 4 Spans, Lengths(m): 28.5-38-39.5-34, A-Ident Number:)				
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		8	8	
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	Pigmented coating is peeling at minor isolated areas.
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				Integral at center pier.
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				Map cracks.
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Pedway under West span, RxR under sp. 2. Nose Ck. under Sp.3.
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
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	Reset SE approach parapet.					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	66.3/66.3	Est. Repl. Yr	2063	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	06-Apr-2016		Previous Inspection Date	10-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							