

Bridge Inspection											
Bridge File Number	76849 N-10 Bridge					Form Type	PSR				
Year Built/Year Supstr	2009/2009					Lot No.	4				
Bridge or Town Name	HIGHWAY 2 OVER YANKEE VALLEY BLVD INTERCHANGE, AT S BOUNDARY					Inspector Name	Garry Roberts				
						Inspector Class	BR CLS A				
Located Over	LOCAL ROAD					Assistant Name					
Located On	2:18 R1 6.461					Assistant Class					
Water Body Cl./Year						Inspection Date	12-Sep-2011				
Navigabil. Cl./Year						Data Entry By	Alyssa Boynton				
Legal Land Location	NW SEC 33 TWP 26 RGE 29 W4M					Data Entry Date	25-Oct-2011				
Longitude, Latitude	-114:00:05, 51:16:14					Reviewer Name	Ash Morjaria				
Road Authority	Alberta Transportation (AIT)					Review Date	10-Oct-2011				
Contract Main. Area	CMA29					Dept. Reviewer Name	Tim Davies				
Clear Roadway/Skew	30 /					Dept. Review Date	28-Oct-2011				
AADT/Year	59,110 / 2010 (A)					Follow-Up By					
Road Classification											
Detour Length (km)											
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CL800									----> Primary Span	

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)					Yes					
Posted:	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	EB	On Bridge (m)	In Advance (Y/N)
Remarks	E/B posting on BF 76849 S									
Required Load Posting (t)			Single				Semi		Truck Train	
Posted Loading (t)			Single				Semi		Truck Train	
Posted:	Lane	WB	At Junction (Y/N)				In Advance (Y/N)		At Bridge (Y/N)	
Posted:	Lane	EB	At Junction (Y/N)				In Advance (Y/N)		At Bridge (Y/N)	
Remarks	Not req.									
Hazard Marker At Bridge (Y/N)		No								
Remarks										
Other Sign Types		information signs								

Utilities (Located at)										
Utility Attachments										
Telephone						Gas				
Power	Under deck lighting and underground.					Municipal				
Others	Light standards.					Problem (Y/N)	No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	On ramp SE corner				
Vertical Alignment			8	8					
Roadway Width (m)		34.000			Estimate.				
Approach Bump			9	8					
Guardrail (Y/N)		Yes							
Guardrail			9	8					
Length (m)									
Current Standard (Y/N)		Yes							
Termination Type									
Drainage			9	8					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : NU, 2 Spans, Lengths(m): 29-32, 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			9	8	Waterproofing membrane under ACP
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			9	8	
Deck Joints			X	X	
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Narrow and medium vertical cracks throughout, average of one per bridge rail post
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			9	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			9	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			9	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			9	8	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 10)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 2 Spans, Lengths(m): 29-32, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	vertical cracks between girders in abutment diaphragms
Bearings		X	X	Integral
Temperature (deg. C)				
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)				
Functioning (Y/N)				
Deck Underside		7	7	Narrow transverse cracks between 1-2, 8-10 span 1, random diagonal and transverse cracks with efflorescence.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		9	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		9	8	
Piles		N	N	Buried.
Paint/Coating		9	8	
Abutment Stability		9	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Bearing seat not visible.
Bearing Seats/Caps		X	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5)				
Pier Shaft/Piles		9	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		9	8	Pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		9	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Intersections 200m east and west
Traffic Safety Features		9	8	Crash attenuator both ends
Type	Bullnose			
Slope Protection		9	8	Galv. deflector plate at top of both slopes.
(Type : CONCRETE; CONCRETE)				
Bank Stability		9	8	
Drainage		9	8	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT 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) (%)	88.9/83.3	Sufficiency Rating (Last/Now) (%)	68.8/62.0	Est. Repl. Yr	2082	Maint. Req. (Y/N)	No
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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	12-Jun-2013		Previous Inspection Date	18-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							