

Bridge Inspection										
Bridge File Number	81888 N-1 Bridge					Form Type	SG			
Year Built/Year Supstr	2001/2001					Lot No.	3			
Bridge or Town Name	CALGARY					Inspector Name	Garry Roberts			
Located Over	2:15 L1 2.456					Inspector Class	BR CLS A			
Located On	2A:08 R1 0.420					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	19-Dec-2012			
Legal Land Location	NW SEC 29 TWP 21 RGE 29 W4M					Data Entry By	Lauren Korte			
Longitude, Latitude	-113:59:13, 50:49:01					Data Entry Date	11-Jan-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	CMA27					Review Date	02-Jan-2013			
Clear Roadway/Skew	12.9 / 55 deg. (RHF)					Dept. Reviewer Name	Tim Davies			
AADT/Year	18,550 / 2011 (A)					Dept. Review Date	22-Jan-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:	CS750									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.3m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	No
Remarks	Only S/B required.											
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											
Other Sign Types											

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE									
Telephone	East ROW.				Gas					
Power	Underside of bridge.				Municipal					
Others	Light standards.				Problem (Y/N)		No			
Remarks										

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			7	7					
Vertical Alignment			7	7					
Roadway Width (m)	13.000								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Minor damage and incorrect lap at SW also incorrect lap at SE.				
Guardrail			4	7					
Length (m)	99.000								
Current Standard (Y/N)	Yes								
Termination Type	FLARE ENDS								
Drainage			7	5	Minor heave in concrete drain trough at NW and NE.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 1 Spans, Lengths(m): 56, A-Ident Number: A1324-01</b> )						
<b>Special Features</b>						
Special Feature			X			
(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			7	7	Deck top is wearing surface. Slab cast on girders.	
(Material Type : <b>CONCRETE</b> )						
(Thickness(mm) : <b>70</b> )						
Deck Top			X	X	Transverse narrow cracks.	
Deck Rideability			8	8		
Deck Joints			6	6	Top of South abut. Seal is plow damaged but still water tight and functional.	
Temperature (deg. C)		-4				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
85		North abut				
70		South abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	7	Narrow cracks in curbs @ 0.4M spacing.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			8	8	1 post near NW corner with minor damage to top.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			6	6		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			X	X		
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
<b>(Primary Span : WG, 1 Spans, Lengths(m): 56, A-Ident Number: A1324-01)</b>				
Paint Condition		X	X	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		6	6	NW grout pad is spalled- minor.  Bolt bent 25mm @ SE.
Temperature (deg. C)	-4			
<b>(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)</b>				
<b>(Fixed Type : ROCKER BEARING)</b>				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Transverse narrow cracks with efflorescence @ deck underside @ approx 1.5 m spacing.
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	Covered with pigeon droppings.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		X	X	
Paint/Coating		5	5	Isolated peeling.
Abutment Stability		8	8	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			

<b>Substructure</b>				
<b>Bridge Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation</b>				
Road Alignment		6	6	Curves both ends.
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	MSE retaining wall.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</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						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING	2013	Wash abut seats and girder flanges at ends.				
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.3/54.2</b>	Est. Repl. Yr	2073	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection		Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
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Proposed Long-Term Strategy	
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On 3-Year Program (Y/N)	
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Proposed Action	
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Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	Jason Rusu
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Next Inspection Date	19-Sep-2014	Previous Inspection Date	12-Feb-2011
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Inspection Cycle (Default) (months)	21
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Comment	
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