

Bridge Inspection									
Bridge File Number	13852 -1 Bridge				Form Type	SG PCS			
Year Built/Year Supstr	1966/1966				Lot No.	2			
Bridge or Town Name	NACMINE				Inspector Name	Owen Salava			
Located Over	THREEHILLS CREEK, 3.50.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	837:02 C1 4.569				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	11-May-2011			
Legal Land Location	SE SEC 4 TWP 30 RGE 21 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:53:21, 51:31:57				Data Entry Date	25-May-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA21				Review Date	17-May-2011			
Clear Roadway/Skew	8.2 / 25 deg. (RHF)				Dept. Reviewer Name	Chris Black			
AADT/Year	340 / 2010 (A)				Dept. Review Date	27-May-2011			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	60								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	600mm offline and 300mm too low. Loose at NW.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	West r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Grade increases to North.				
Vertical Alignment			6	6	Curves both sides. Passing allowed.				
Roadway Width (m)	10.000				25mm				
Approach Bump			4	4	Gap between girders and backwall planks @ NW.				
Guardrail (Y/N)	Yes				Existing ends with wrong lap.				
Guardrail			4	4					
Length (m)	11.600								
Current Standard (Y/N)	Yes								
Termination Type	TURN DOWN END								
Drainage			5	5	No visible concerns during rain.				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 8.5-23.8-8.5, A-Ident Number: A0511-01)					
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			5	5	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	5	Buffer angles are superficially corroded. - damage @ South pier - still functional.
Temperature (deg. C)		17			
(Expansion Type :)					
(Fixed Type : BUFFER ANGLES)					
Gap Size (mm)		Gap Location			
		North Pier			
50		South Pier			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	- double layer Incorrectly spliced. - CCA treated timber blocking. 2 blocks twisted. 3 post base plates not flush with curbs.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			7	7	
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 : RB, 3 Spans, Lengths(m): 8.5-23.8-8.5, A-Ident Number: A0511-01)					
Paint Condition		5	5	Superficial rust, 10%. Orange.	
(Colour Description :)					
(Colour Code :)					
Touchup Required (Y/N)	No				
Bearings		4	N	(Bearing interface pitted with added friction. Rated 4. 07May2009).	
Temperature (deg. C)	17				
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)	No				
Functioning (Y/N)	Yes				
Deck Underside		7	7		
Stains (Percent Area)	0				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		7	7	Bearing does not govern in this case.	
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : SC)					
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		X	5	(Narrow cracks @ grout @ connector pockets. 07May2009). Surface depressions along girder lines.	
(Material Type : CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		7	N		
Deck Rideability		8	8		
Deck Joints		X	X		
Bump (Y/N)	No				
Deck Drainage		3	3	Deck drains have no extensions allowing water access to underside @ both end spans. Water leaking between girders and onto girder bottoms.	
Drains Clogged (Y/N)	No				
Curbs/Median		8	8		
(Curb Type : Standard)					
Scaling (Percent Area)	0				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : SC)					
Bridge Rail		7	7	- CCA treated timber blocking.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		7	7		
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(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		6	6	Minor rust spots and water stains.	
Last Complete Inspection Date		11-May-2011			
Cracking (Y/N)		No		(Narrow cracks @ grout pockets @ connectors. 07May2009).	
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 16)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating		6	6		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 2000)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels		7	7		
(Type : TREATED TIMBER)					
(Depth(mm) : 350)					
(Width(mm) : 300)					
Backwalls/Breastwalls		7	7		
Greatest Height (m)		1.90			
Wingwalls		7	7		
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles		5	5	Narrow split @ NW - 2nd pile. Only tops at S visible.	
Paint/Coating		X	X		
Abutment Stability		7	7		

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Scour/Erosion		6	6			
Piers/Bents						
(Type : PIER-COLUMN)					4.6 height of pier.	
(Total Number of Caps/Corbels : 22:20)					P1 10 caps, 12 corbels. P2 10 caps, 10 corbels.	
Bearing Seats/Caps/Corbels Detail Ratings					- subcaps + spacer caps not fully seen.	
	N (count)	1 (count)	2 (count)	3 (count)	Corbels 300 X 300.	
Last	10	0	0	0		
Now	10	0	0	0		
Bearing Seats/Caps/Corbels		5	5			
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
(Total Number of Bearing Piles : 16:16)					Sheathed in.	
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	32	0	0	0		
Now	32	0	0	0		
Pier Shaft/Piles		N	N			
Bracing/Struts/Sheathing		7	7			
Nose Plate		7	7			
Paint/Coating		4	4	Nose plate paint 25% failed.		
(Colour Description :)					Colour:orange	
(Colour Code :)						
Pier Stability		8	8	N. pier bows inward to stream in area of c/l est. 100 to 150 mm.		
Scour		7	7			
Debris (Y/N)		Yes		(Timber piles in streambed. 07May2009).		
Substructure General Rating		5	5			
Structure Usage						
		Last	Now	Explanation of Condition		
Channel						
(U/S Direction : W)					Curves both ends.	
(D/S Direction : E)						
Alignment		7	7			
Bank Stability		5	5			
HWM (m below Top of Curb)				HWM not visible.		
Drift (Y/N)		No				
Slope Protection		7	7			
(Type : NATURAL; NATURAL)						
Guidebank/Spurs		X	X			
Adequacy of Opening		8	8			
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						
Channel General Rating		7	7			

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Randy Bredo	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	11-Aug-2014	Previous Inspection Date	07-May-2009
Inspection Cycle (Default) (months)	39		
Comment			