

Bridge Inspection											
Bridge File Number	78186 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1977/1977				Lot No.	1					
Bridge or Town Name	NANTON				Inspector Name	Garry Roberts					
Located Over	WILLOW CREEK, 2.12.25, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	532:02 C1 13.802				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	16-May-2010					
Legal Land Location	SE SEC 9 TWP 15 RGE 3 W5M				Data Entry By	Alyssa Boynton					
Longitude, Latitude	-114:21:05, 50:14:31				Data Entry Date	17-Aug-2010					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Ash Morjaria					
Contract Main. Area	CMA27				Review Date	10-Jun-2010					
Clear Roadway/Skew	7.6 /				Dept. Reviewer Name	Lorenz Bohnert					
AADT/Year	110 / 2009 (A)				Dept. Review Date	18-Aug-2010					
Road Classification	RCU-208-110				Follow-Up By						
Detour Length (km)	50										
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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks	not required									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	Willow Creek Signs									

Utilities (Located at)										
Utility Attachments										
Telephone					Gas	x-ing 150m west				
Power	2 line x-ing west of bridge				Municipal					
Others	AE watering monitoring station at SW and attached to south rail				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Approaches at both ends.				
Vertical Alignment			6	6	Hill to east. Texas gate 150m west				
Roadway Width (m)	8.400				Gravel Road				
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	7.700				Not Thriebeam				
Current Standard (Y/N)	No								
Termination Type	turned down								
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 9.1-9.1-9.1, A-Ident Number:)					
Special Features					
Special Feature			X	LOCKED BOX ATTACHES TO S BRIDGE RAIL @ west pier	
(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	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	6	POCK MARKED, SOME CORNERS OF GIRDERS SPALLED - minor
Deck Rideability			7	7	
Deck Joints			7	7	buffer angles
Bump (Y/N)		No			
Deck Drainage			6	6	no drains
Drains Clogged (Y/N)					
Curbs/Median			6	6	Minor SPALLS @ ENDS OF UNITS-minor
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Double layer
(Type : FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0			1	
Now	0	0	0	1	
Girders			3	3	45 degree(typical)and H/L long. crack SMALL SPALL @ W PIER SP1-G1
Last Complete Inspection Date		16-May-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0		Lift and connector pockets are tar filled	
Lift or Connector Pocket Grouted (Y/N)		No		SP1 -G3 strand visible. All have been patched except for SP1-G3 No corrosion	
(Number Of Girders : 21)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1200)					
(Total Number of Caps/Corbels : 1:1)					
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				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 350)					
Backwalls/Breastwalls			7	6	
Greatest Height (m)		1.50			
Wingwalls			6	6	
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles				6	6
Paint/Coating				X	X
Abutment Stability				7	7
Scour/Erosion				7	7
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 1:1)					
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				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 350)					
(Total Number of Bearing Piles : 0:0)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles				5	5
Greatest Height (m)		3.80			
Bracing/Struts/Sheathing			5	6	
Nose Plate			5	6	
Paint/Coating			X	4	
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Stream has shifted 50m east
(D/S Direction : S)				
Alignment		5	4	
Bank Stability		6	4	Vertical Cut banks U/S and D/S
HWM (m below Top of Curb)				HWM not visible Mino drift
Drift (Y/N)	Yes			
Slope Protection (Type : RIP RAP)		7	7	rip rap on both headslopes
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2010	50m3 Cl.3 at NE bank					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION	2010	PATCH GIRDER 0.02 m3 OHV					
OTHER ACTION	2010	Fill lift hook & connectors w/ non-shrink grout					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	57.0/55.6	Est. Repl. Yr	2025	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	16-Aug-2013		Previous Inspection Date	16-Jan-2007			
Inspection Cycle (Default) (months)	39						
Comment							