

Bridge Inspection										
Bridge File Number	00183 -1 Bridge					Form Type	TH			
Year Built/Year Supstr	1912/1912					Lot No.	2			
Bridge or Town Name	CLARESHOLM					Inspector Name	Ed Kowal			
Located Over	WILLOW CREEK, 2.12.25, WATERCRS-ST					Inspector Class	BR CLS A			
Located On	520:02 C1 35.639					Assistant Name	Owen Salava			
Water Body Cl./Year						Assistant Class	BR CLS A			
Navigabil. Cl./Year						Inspection Date	04-Jun-2010			
Legal Land Location	SW SEC 18 TWP 12 RGE 27 W4M					Data Entry By	Erin Roberts			
Longitude, Latitude	-113:40:56, 49:59:24					Data Entry Date	13-Mar-2011			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts			
Contract Main. Area	CMA26					Review Date	02-Mar-2011			
Clear Roadway/Skew	6.7 /					Dept. Reviewer Name	Lorenz Bohnert			
AADT/Year	240 / 2009 (A)					Dept. Review Date	14-Mar-2011			
Road Classification	RCU-209-110					Follow-Up By				
Detour Length (km)	5									
Allowable Load (t):	Single	CS1 26			Semi	CS2 45		Train	CS3 63 STRINGER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N) Yes												
Posted:	Lane	EB	On Bridge (m)	6.1	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	6.1	In Advance (Y/N)	No
Remarks	Measured 6.198 and 6.217 6.2000 East 6.204 West											
Required Load Posting (t)			Single	26	Semi	45	Truck Train					
Posted Loading (t)			Single	26.0	Semi	45.0	Truck Train					
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N)	No				
Posted:	Lane	WB	At Junction (Y/N)	Yes	In Advance (Y/N)	Yes	At Bridge (Y/N)	No				
Remarks	Loading signs are sufficient. Also max. 1 truck on bridge.											
Hazard Marker At Bridge (Y/N)		Yes										
Remarks		At end of guardrail & up to 1m out from bridge at West abut										
Other Sign Types		Max 1 Truck on Bridge, Creek ID.										

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South bottom chord. Two lines				Gas				
Power	3 lines 10m North from c/l.				Municipal				
Others					Problem (Y/N)		No		
Remarks	Conduit disjointed at both ends. - not a problem								

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Int. with RR280 5m East
Vertical Alignment		8	8	
Roadway Width (m)		7.300		
Approach Bump		5	6	
Guardrail (Y/N)		Yes		Not thriebeam Class 4 at NE
Guardrail		6	6	
Length (m)		4.000		
Current Standard (Y/N)		No		
Termination Type		Turndown		
Drainage		7	7	Gravel windrow under guardrail
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number: A0103-05)						
<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/Deck Top			4	4	Planks damaged at both abutments with minor end rot and wear to deck	
(Material Type : <b>UNTREATED TIMBER</b> )						
(Plank Thickness(mm) : <b>75</b> )						
(Plank Width(mm) : <b>300</b> )						
Deck Rideability			5	5		
Deck Joints			X	X		
Temperature (deg. C)						
(Expansion Type : )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
Curbs/Wheel Guards			4	3	15 split or turned blocks 1 split plank at NW corner	
(Curb Type : <b>Standard</b> )						
(Type : <b>TREATED TIMBER</b> )						
(Thickness(mm) : <b>100</b> )						
(Width(mm) : <b>300</b> )						
Bridge Rail			5	4	Missing 8 splice bolts. Triple Layer  No blocking at 10 verticals	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )						
Bridge Rail Posts/Blocking			5	4		
(Type : <b>TREATED TIMBER;TREATED TIMBER</b> )						
Bridge Rail/Posts Coating			6	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		

Superstructure						
Bridge Component		Last		Now		Explanation of Condition
(Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number: A0103-05)						
Wide Load Damage (Y/N)	Yes					20 mm local bend U4M2S, 30mm bend M2L5N. U4L4N 25mm local bends. End verticals are welded. Miss drilled extra holes on each angle at U6L5S. Strained holes at bottom tie plates along M1L4N. Floor beam sits on a cantilevered shoe plate because bearing was replaced.  10mm, 20mm, 40mm and 25mm dents along L2L3N, L3L4N, L6L7N, L7L8N respectively  10/ bay  2, 3 ,4, 7, 9 - 140 x 380 mm. 5, 6, 8 - 175 x 410 mm. 2 outside channels 85 x 380 mm.
High Load Damage (Y/N)	No					
Top Chord			7	7		
Batter Posts			7	6		
Sway Bracings			6	6		
Diagonals			6	5		
Verticals			5	5		
Portals			7	7		
Connections			6	4		
Floor Beams			6	6		
Bottom Chord			6	5		
(No. of Stringers : 80)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Stringers			7	7		
(Type : STEEL)						
(Width(mm) : 140)						
(Depth(mm) : 380)						
(Spacing(mm) : 801)						
Paint Condition			4	4		
(Colour Description : GREEN)						
(Colour Code : 14090)						
Touchup Required (Y/N)	No					
Bearings			7	5		
Temperature (deg. C)	15					
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)	Yes					
Sub Deck/Deck Underside			6	6		
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 300)						
Defects (Percent Area)	5					
<b>Span Alignment Problems</b>						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
<b>Superstructure General Rating</b>			5	4		
Substructure						
Bridge Component		Last		Now		Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 900)						

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : <b>18:18</b> )				Top corbels lack stiffeners on interior webs. Top cap at West abut is rotted. Top caps and subcaps are TT.				
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
<b>Last</b>	0	0	0				1	
<b>Now</b>	0	0	0				1	
Bearing Seats/Caps/Corbels			3				3	
(Type : <b>STEEL</b> )								
(Depth(mm) : <b>300</b> )								
(Width(mm) : <b>300</b> )								
Backwalls/Breastwalls			6				7	
Greatest Height (m)		2.90						
Wingwalls			6	7				
(Total Number of Bearing Piles : <b>12:12</b> )				Caps and corbels not painted.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
<b>Last</b>	0	0	0				0	
<b>Now</b>	0	0	0				0	
Piles			6				7	
Paint/Coating			X				X	
Abutment Stability			7				7	
Scour/Erosion			6				6	
<b>Piers/Bents</b>								
(Type : )								
(Total Number of Caps/Corbels : )								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>								
Bearing Seats/Caps/Corbels			X	X				
(Type : )								
(Total Number of Bearing Piles : )								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>								
Pier Shaft/Piles			X	X				
Greatest Height (m)								
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)		Yes		2 old piles in channel. 11 old piles at abutment 2				

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	Rotted top cap does not govern general rating.
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				Sharp bend D/S.
(D/S Direction : <b>S</b> )				
Alignment		6	6	
Bank Stability		6	6	High flow attacking bank at NE, with minor erosion. Vertical banks D/S
HWM (m below Top of Curb)	1.0			(Water has flowed above bottom chord.) 99/07/06 Minor drift in corbel area
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	4	Water has been above bottom chord
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>4</b>	



Proposed Action			
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	
Next Inspection Date	04-Sep-2013	Previous Inspection Date	21-May-2010
Inspection Cycle (Default) (months)	39		
Comment			