

Bridge Inspection										
Bridge File Number	80870 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1985/1985				Lot No.	2				
Bridge or Town Name	CHARD				Inspector Name	Arnold Assenheimer				
Located Over	CHRISTINA RIVER, 8.11.39.4, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	881:22 C1 36.912				Assistant Name	Wade Nanninga				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	09-Sep-2010				
Legal Land Location	NW SEC 25 TWP 79 RGE 6 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-110:48:43, 55:52:36				Data Entry Date	29-Sep-2010				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan				
Contract Main. Area	CMA07				Review Date	16-Sep-2010				
Clear Roadway/Skew	9.5 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	790 / 2009 (A)				Dept. Review Date	05-Oct-2010				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	250									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49						
Design Loading:	MS300						----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	"Christina River"								

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.				Gas					
Power	1 wire OH 30 m East of c/l.				Municipal					
Others	Fibre optic West r/w.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve to South.				
Vertical Alignment			7	7					
Roadway Width (m)			9.500		Insufficient posts. NW & SE - 55.6m; NE & SW - 44.2m.  Split post at SE still functioning.				
Approach Bump			7	7					
Guardrail (Y/N)			Yes						
Guardrail			8	4					
Length (m)			44.200						
Current Standard (Y/N)			No						
Termination Type			Turned Down						
Drainage			7	3	Water leaking behind backwall from cracks along WW and approach slabs.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : DBT, 2 Spans, Lengths(m): 30-36, A-Ident Number: )						
<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>						
<b>Now</b>						
Wearing Surface			X	5	Scraped/plow damage.	
(Material Type : <b>CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : )						
Lateral Connection Problem (Y/N)		No				
Deck Top			4	N	Grader ice blade scrapes. Cored holes not filled to top, holding water - photo.-14-Jun-2007	
Deck Rideability			7	6	Dip at pier due to girder cambers.	
Deck Joints			7	7	No evidence of staining on bridge deck underside.	
Temperature (deg. C)		10				
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )						
(Fixed Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )						
Gap Size (mm)		Gap Location				
65		S. abut.				
70		N. abut.				
Deck Drainage			7	3	All water flows to North abutment. No drains. Dirt/sand impeding drainage. Crack b/w approach slab and abut allowing water behind backwall.- photo	
Drains Clogged (Y/N)						
Curbs/Median			5	5	Grader scrape along edge.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			8	5	Some anchor bolts with insufficient thread. Staining of curb units from bridgerail anchor bolts.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			4	4		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			8	8		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 2 Spans, Lengths(m): 30-36, A-Ident Number: )				
Girders		5	4	Typical DBT cracking near ends extending into narrow G8 S1.. Hairline horizontal crack curb girders and height ext into web from end bolts.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		8	8	
Bearings		7	7	At South abutment South edge of bearing pads flush with ends of girders.  S. abut pier, N abut
Temperature (deg. C)	14			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	9	
Abutment Stability		7	9	
Scour/Erosion		4	4	Water leaking behind abut and N headsloe scouring-void 1.4m behind abutment seat.
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				Narrow vertical crack at west end of pier cap.  View with binoculars from banks.
Bearing Seats/Caps		6	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Rust on bottom 1/2 of pier, on pile 1 U/S side from ice damage.
(Colour Description : <b>RED</b> )				
(Colour Code : <b>21310</b> )				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Evidence of flow eroding banks.
(D/S Direction : <b>E</b> )				
Alignment		8	7	
Bank Stability		6	4	
HWM (m below Top of Curb)				
Drift (Y/N)	No			
Slope Protection		7	4	North abutment is on inside of stream curve and has no riprap. Erosion gullies along N headslope.
(Type : <b>RIP RAP; NONE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>4</b>	

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	2010	Fill void under North abutment cap.					
PLACE ADDITIONAL RIP RAP	2010	North headslope					
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	Fill cracks @ approach slabs along WW and along backwall.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.2/51.8</b>	Est. Repl. Yr	2054	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	09-Dec-2013		Previous Inspection Date	14-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							