

Bridge Inspection									
Bridge File Number	80871 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1986/1986				Lot No.	2			
Bridge or Town Name	CHARD				Inspector Name	Wade Nanninga			
Located Over	KETTLE RIVER, 8.11.39.4.6, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	881:22 C1 51.561				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Sep-2010			
Legal Land Location	NW SEC 3 TWP 81 RGE 6 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-110:51:55, 55:59:56				Data Entry Date	29-Sep-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA07				Review Date	16-Sep-2010			
Clear Roadway/Skew	8.8 /				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	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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)	Yes								
Remarks	Too high, off line								
Other Sign Types	Kettle River								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	1 wire East r/w.				Municipal				
Others	Bell fibre optics West r/w.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Horizontal curve to the north. Slight rise to South.				
Vertical Alignment			7	7					
Roadway Width (m)	9.200				Insufficient posts, NW & SE - 53.2m; NE & SW - 45.6m.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	45.600								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			8	8					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 3 Spans, Lengths(m): 10-10-10, A-Ident Number: )</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>					
<b>Now</b>					
Wearing Surface			X	7	All girders lines showing in chipseal.
(Material Type : <b>CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			4	N	Marred by grader. Numerous lift/connection pockets not properly grouted - photos.-14-Jun-2007
Deck Rideability			6	6	Slight bump due to camber, minor.
Deck Joints			4	N	Buffer angles. Couple damaged, 1 torn off. ACP unravelled at both abutments creating gap & bump - photos.
Bump (Y/N)		Yes			
Deck Drainage			4	4	No drains. Pocket hardware has rust stains. Erosion runners at headslope from deck drainage. Water stains on pier caps.
Drains Clogged (Y/N)					
Curbs/Median			4	4	Minor spalls at curb ends. Exposed rebar. S1 Eastt curb delam exposing rusting stirrups, plow damage - photo.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	4	Double layer, not properly lapped. Missing splice bolts (8) in 1st post SB lane. Missing rail post bolt in NB rail.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts		8	4		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders			5	4	Hairline longitudinal cracks on G8 of south span, length of girder. S1G4/G5 has spot rust staining on girder under side - photo. Rust stains from connector pockets. Paint crack @ end of G1 of S2 & 3. Vertical crack may be forming. Rust spot staining on G1 S3.
Last Complete Inspection Date		09-Sep-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>24</b> )					
<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>					
(Extended Backwall Piles (Y/N) : <b>N</b> )					
(Extended Backwall Piles Spacing(mm) : )					
Erosion channels in North headslope from leaking between girders - photo.					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels				8	7
(Type : <b>CONCRETE</b> )					
(Depth(mm) : <b>600</b> )					
(Width(mm) : <b>500</b> )					
Backwalls/Breastwalls				N	N
Spill through abutment.					
Greatest Height (m)		1.00			
Wingwalls				7	7
(Total Number of Bearing Piles : <b>0:0</b> )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	1	0	0	0	
Piles				N	N
Paint/Coating				6	6
Stained from leaking at abutments.					
Abutment Stability				8	8
Scour/Erosion				4	4
Erosion channels in headslope from leaking between girders.					
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels				6	4
(Type : <b>CONCRETE</b> )					
(Depth(mm) : <b>600</b> )					
(Width(mm) : <b>500</b> )					
1 location of rust stain on SE cap stream side. Piers have heavy water stains on them from joints. 1 popout & vertical crack in West end of North pier.					
Narrow cracking at each pile location.					

Substructure						
Bridge Component			Last	Now	Explanation of Condition	
(Total Number of Bearing Piles : <b>6:6</b> )					Pipe piles	
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles			8	8		
Greatest Height (m)		4.90				
Bracing/Struts/Sheathing			8	8		
Nose Plate			X	X		
Paint/Coating			4	4	Paint on caps is peeling (10%). Lacks paint lower 1.0m of piles, pier caps peeling.	
(Colour Description : <b>BLUE</b> )						
(Colour Code : <b>15182</b> )						
Pier Stability			9	9		
Scour			8	8		
Debris (Y/N)		No				
<b>Substructure General Rating</b>			<b>6</b>	<b>4</b>		
Structure Usage						
			Last	Now	Explanation of Condition	
<b>Channel</b>						
(U/S Direction : <b>W</b> )						
(D/S Direction : <b>E</b> )						
Alignment			7	7		
Bank Stability			4	4	Bend in channel upstream with outside bank protected with riprap.	
HWM (m below Top of Curb)					HWM not available	
Drift (Y/N)		No				
Slope Protection			8	4	Deck drainage between girders causing headslope erosion problems.	
(Type : <b>NATURAL; NATURAL</b> )						
Guidebank/Spurs			X	X		
Adequacy of Opening			9	9		
(Fish Compensation Measure 1 : <b>NONE</b> )						
(Fish Compensation Measure 2 : <b>NONE</b> )						
<b>Channel General Rating</b>			<b>4</b>	<b>4</b>		

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Splice bolts (8) correct lap missing rail bolt.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK	2010	Concrete overlay @ major rehab.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2010	Relocate hazard markers.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.1/49.3</b>	Est. Repl. Yr	2038	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girders/caps cracking and staining.		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							