

Bridge Inspection									
Bridge File Number	00875 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1987/1987				Lot No.	2			
Bridge or Town Name	ERVICK				Inspector Name	Owen Salava			
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	21:22 C1 35.287				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	20-Sep-2012			
Legal Land Location	SE SEC 10 TWP 46 RGE 21 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:57:51, 52:56:56				Data Entry Date	02-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA16				Review Date	27-Sep-2012			
Clear Roadway/Skew	13.2 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,570 / 2011 (A)				Dept. Review Date	16-Oct-2012			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	12								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS350						----> 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	Information, Curve, Battle River.								
Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3 wires 25m from c/l East r/w.				Municipal				
Others	Evironment shack @ SW.				Problem (Y/N)		No		
Remarks									
Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			6	6	Curves on both ends with passing lanes.				
Vertical Alignment			6	6	Approach road ~50m SE. No passing through site (on grade).				
Roadway Width (m)	12.700				Both approaches rise to meet bridge.				
Approach Bump			6	6	New ACP (150mm deep) stops at edge of guardrail.				
Guardrail (Y/N)	Yes				Insufficient posts/spacing (photo); not thrie beam.				
Guardrail			7	7					
Length (m)	42.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			4	4	Void/undermining of N approach slab under NW drain (photo). New troughs installed recently at SE & SW.				
<b>Approach Road General Rating</b>			<b>4</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 1 Spans, Lengths(m): 42, 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>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>90</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			8	8	A1 A2
Temperature (deg. C)		14			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
70		N. abut			
77		S. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Typical cracking & staining at bridgerail post exterior.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			8	8	2 A/B along east rail with insufficient thread. SW post grout pad delam (photo).  Rust stains at baseplate contact with grout pad.
(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		7	6		
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			7	7	Minor hairline cracks @ ext @ SW. Coating peeling at 30% of girders.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : <b>12</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 42, A-Ident Number: )				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	S abut. N abut.
Temperature (deg. C)	14			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
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>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	Diagonal cracking NE wingwall.
Piles		N	N	
Paint/Coating		4	4	Cracked and peeling at wingwalls - worst at SE (photo). Graffiti at S abut & S wingwall (photo).
Abutment Stability		8	8	
Scour/Erosion		4	4	150mm settlement under abut 1 - piles exposed - photo.
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
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)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</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	Some scouring of South bank D/S - 60m long (photo). Cut bank SE channel.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
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	2013	Repair void under NW drain.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace SW post grout pad.					
OTHER ACTION	2013	Upgrade guardrail to meet std at next major rehab.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>83.3/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.2/66.3</b>	Est. Repl. Yr	2045	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	20-Jun-2014		Previous Inspection Date	08-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							