

Bridge Inspection											
Bridge File Number	73779 -1 Bridge				Form Type	PSR					
Year Built/Year Supstr	1975/1975				Lot No.	2					
Bridge or Town Name	ENILDA				Inspector Name	Brian Pientsch					
Located Over	EAST PRAIRIE RIVER, 8.11.80.54.4, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	2:52 C1 15.130				Assistant Name	Russel Vanderschaaf					
Water Body Cl./Year					Assistant Class	BR CLS B					
Navigabil. Cl./Year					Inspection Date	13-Feb-2013					
Legal Land Location	SE SEC 23 TWP 74 RGE 16 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-116:20:21, 55:25:06				Data Entry Date	03-Apr-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA06				Review Date	03-Apr-2013					
Clear Roadway/Skew	11 /				Dept. Reviewer Name						
AADT/Year	3,740 / 2012 (A)				Dept. Review Date						
Road Classification	RAU-210-110				Follow-Up By						
Detour Length (km)	999										
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)									
Remarks	Not required								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	South r/w.				Gas					
Power	6 W o/h N r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	6	Intersection 150m east,WBL,ACC lane ends @ approach rail.					
Vertical Alignment			6	6						
Roadway Width (m)		10.600				ACP cracked & ravelling at approaches.-photo Snow covered				
Approach Bump			4	N						
Guardrail (Y/N)		Yes				Insufficient post next to bridge,not thrie beam.				
Guardrail			3	N	SNOW covered Only 350mm road top to centre rail.					
Length (m)		64.600								
Current Standard (Y/N)		No								
Termination Type		TURNED DOWN								
Drainage			5	5						
Approach Road General Rating			6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 4 Spans, Lengths(m): 15.2-30.5-30.5-15.2, A-Ident Number:)					
Special Features					
Special Feature		7	7	Rust on all anchors.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered
Last	20	0	0	0	
Now	99.0				
Wearing Surface			5	N	About 2% of chip seal has worn off.-11-May-2007
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			5	N	90% snow covered Expansion joint is at A1
Temperature (deg. C)		-2			
(Expansion Type : FINGER PLATES)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
50		Abut 2			
70		Pier 3			
38		Pier 2			
62		Pier 1			
25		Abut 1			
Deck Drainage			4	4	No drains. Stains on piers
Drains Clogged (Y/N)		No			
Curbs/Median			4	N	Chipped over and small spall on concrete patch-N.curb near Centre pier.Party gravel covered top at curb. Concrete at joints has deteriorated.-11-May-2007
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			5	N	Insufficient thread extension beyond nut on post anchors (numerous). Snow covered
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	N		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	N	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 4 Spans, Lengths(m): 15.2-30.5-30.5-15.2, A-Ident Number:)				
Girders		4	4	Hairline cracks at end girders along chamber. Medium longitudinal cracks S3 G1 & 6 east end. Spall 150mmLx80mm W S2,G3
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 28)				
Diaphragms/Cross Frame		7	7	
Bearings		4	4	Bearing bolts bent on all piers. Grout pads are spalling.
Temperature (deg. C)	19			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		5	5	A few wide cracks.
Piles		N	N	
Paint/Coating		4	4	20% of sealer is flaking off.
Abutment Stability		5	5	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		4	4	Center Pier -massive concrete approach span piers - pipe piles (6) Delam crack at S end, W side P2, S end E & W -side P3.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		5	5	Galvanizing worn off bottom of nose plate.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Superficial rust on pier piles.
(Colour Description : GREEN)				
(Colour Code : 34350;14193)				
Pier Stability		6	6	
Scour		6	6	
Debris (Y/N)	Yes			Old piles Northeast of bridge.
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		6	6	Vertical banks d/s (north)
HWM (m below Top of Curb)				(Hwm appear to be top of nose plate -96/11/07)
Drift (Y/N)	No			
Slope Protection (Type :)		7	7	Gabions installed on lower headslope (West side)
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch and repair spalled curb units.- carried over 11-May-2011					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	replace broken sections of approach rail. - carried over 11-May-2011					
OTHER ACTION	2013	Patch ACP at approaches. - carried over 11-May-2011					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	51.2/51.3	Est. Repl. Yr	2027	Maint. Req'd. (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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	13-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							