

Bridge Inspection									
Bridge File Number	73777 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1969/1995				Lot No.	2			
Bridge or Town Name	ENILDA				Inspector Name	Russel Vanderschaaf			
Located Over	2ND ORDER TRIBUTARY TO EAST PRAIRIE RIVER, 8.11.80.54.4.1.1, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	2:52 C1 18.024				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Feb-2013			
Legal Land Location	SW SEC 22 TWP 74 RGE 16 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:23:04, 55:25:19				Data Entry Date	10-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA06				Review Date	07-Apr-2013			
Clear Roadway/Skew	12.7 / 0 deg.				Dept. Reviewer Name				
AADT/Year	3,740 / 2012 (A)				Dept. Review Date				
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS750						----> 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									
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not req'd								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	South r/w				Gas				
Power	6 lines 30m North.				Municipal				
Others	Fibre optic North r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Entrances NW & SW corner.				
Vertical Alignment			8	8					
Roadway Width (m)	10.500								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				NW-25m SW-32m NE-32m SE-25m				
Guardrail Length (m)	25.000		7	7					
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X	Couldn't access bridge underside due to height of snow.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	10.0	0.0	10.0	0.0	
Wearing Surface			4	2	Cracks in asphalt along joints of girder @ centerline and EBL. ACP doesn't extend to curbs. G3-4, 8-9, have wide cracks.-photo G5-6, 6-7, 9-10 gaps the worst, 150mm wide cracks along the span of the ridge.-Aug 270mm W x 50mm deep at worst location.-photo Up to 270mm W x 50mm deep gaps between girders.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	2	
Deck Joints			N	N	Paved over. Buffer angles
Bump (Y/N)		No			
Deck Drainage			7	7	No deck drains
Drains Clogged (Y/N)					
Curbs/Median			4	N	Lifting pockets tar filled, not grouted. Cap seal coating is peeling on exterior face. Vertical hairline cracks @ 300mm spacing along curb face. Interior face of North curb delaminating/spalling over 0.2m2 area. Snow covered
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			7	7	Snow covered Snow covered
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	N	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			9	N	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	12				
Girders			5	N	Form voids in curb girders open and exposed at E and W end.Narrow longitudinal cracking on lower curb fascia both sides. Hairline cracks underside of G1Z. All other girders rated 7.-26-Oct-2011 Girders overhang cap by 250mm @ NW corner and 130mm @ SW corner.-26-Oct-2011 Lift and visible connector pockets filled with tar.-26-Oct-2011 Couldn't get under bridge due to snow
Last Complete Inspection Date		26-Oct-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No		Gaps between girders causing ACP to crack.	
Horizontal (Y/N)		Yes			

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)						
Superstructure General Rating		5	5	GR 5 carried over 26-Oct-2011		
Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)		Couldn't accesss due to snow.				
(Extended Backwall Piles Spacing(mm) : 1600)						
(Total Number of Caps/Corbels : 6:8)		A1 has 6 caps and 2 75mm TT planks used for shims.-26-Oct-2011				
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Cored in 2011 no rot	
Last						
Now	14					
Bearing Seats/Caps/Corbels		7	N			
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 354)						
Backwalls/Breastwalls		4	N	One broken plank in W abut, not an issue. Damaged plank in extended backwall @ NW corner , allowing fill to spill through.-26-Oct-2011		
Greatest Height (m)		2.20				
Wingwalls		5	5	NE and NW wingwalls under ice. SE wingwall post-tintop is damaged.		
(Total Number of Bearing Piles : 9:9)		Pile 5 on east abutment has vertical split - photo.-Banded on top.-26-Oct-2011				
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Cored in 2011 no rot	
Last						
Now	18					
Piles		4	4			
Paint/Coating		X	X			
Abutment Stability		7	7			
Scour/Erosion		7	7			
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels		X	X			
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles		X	X			
Greatest Height (m)						
Bracing/Struts/Sheathing		7	N			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	GR carried over 26-Oct-2011
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Could not confirm u/s, d/s direction.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)	1.4			Grass on top of struts.Two old piles in channel-26-Oct-2011
Drift (Y/N)	No			
Slope Protection		7	N	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Grout connector and lift hook pockets.-carried over 26-Oct-2011					
OVERLAY DECK	2013	Repair cracks in asphalt between girders.					
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	2013	Repair spall/delam in North curb.-carried over 26-Oct-2011					
OTHER ACTION	2013	Fill void forms at girder ends.-carried over 26-Oct-2011					
OTHER ACTION	2013	Lag planks to inside face of backwalls where damaged.-carried over 26-Oct-2011					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	58.7/57.9	Est. Repl. Yr	2034	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Look at girder spacing before repairing cracks to determine if bridge needs to be realigned + keeper plates installed on caps. Low Rating Advisory sent to Alan Saunders 03-Apr-2013.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	12-Nov-2014		Previous Inspection Date	26-Oct-2011			
Inspection Cycle (Default) (months)	21						
Comment							