

Bridge Inspection									
Bridge File Number	07836 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1960/1960				Lot No.	2			
Bridge or Town Name	EDSON				Inspector Name	Wade Nanninga			
Located Over	EDSON RIVER, 8.11.107.25, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	748:04 C1 9.914				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Apr-2013			
Legal Land Location	SE SEC 16 TWP 54 RGE 16 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:17:20, 53:39:44				Data Entry Date	23-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA13				Review Date	21-Apr-2013			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,320 / 2012 (A)				Dept. Review Date	23-Apr-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	10								
Allowable Load (t):	Single	CS1 38 GIRDER	Semi	CS2 50 GIRDER	Train	CS3 67 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> 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									
Other Sign Types	Edson River.								
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	Conduit on bridge East & West sides below bridge.				Gas				
Power	Single line east r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	85 speed limit, no passing each way. Access roads on both approaches.				
Vertical Alignment			7	7					
Roadway Width (m)	9.200				Wide cracks with ravelling ACP at approaches - photo.				
Approach Bump			5	4					
Guardrail (Y/N)	Yes				Not connected to bridgerail.				
Guardrail			7	7	No thrie beam/fleat				
Length (m)	30.400								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			6	6					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 2 Spans, Lengths(m): 19.8-19.8, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : EXT LONGIT POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	5.0				
Wearing Surface			6	5	Overlay worn off on about 10% of deck.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	5	Fixed joints at abutments paved over.
Temperature (deg. C)		-2			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : BUFFER ANGLES)					
Gap Size (mm)		Gap Location			
		S. abut			
65		Center			
		N. abut			
Deck Drainage			7	6	
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Medium scaled. Outside face spalled at a few locations.
(Curb Type : Standard)					
Scaling (Percent Area)		15			
Bridge Rail			5	4	Double layer flexbeam on round steel posts. Flexbeam rusting along bottom. Missing 4 splice bolts per post.-photo
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	Insufficient thread on some anchor bolts.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	4	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			6	4	Horizontal wide crack SP1G5 SP2G1 over pier-0.2m long.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 10)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 2 Spans, Lengths(m): 19.8-19.8, A-Ident Number:)				
Diaphragms/Cross Frame		6	6	Scaling rust at abutments.
Bearings		5	5	Rusting.
Temperature (deg. C)	-2			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : SLIDING PLATE)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		6	4	A few narrow longitudinal cracks. Spalling over pier with exposed rebar- West side.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Light scaling.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	Light scaling.
Wingwalls		6	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	6	
Piers/Bents				
(Type : PIER-SOLID)				Pier has medium scaling on ends of piers. A few narrow vertical cracks.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	Rust on nose plate.
Paint/Coating		4	4	Orange.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		6	6	
Debris (Y/N)	Yes			Caught on pier.
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	80mm gap at South abutment, 0.3m void under slab. Concrete apron.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Splice bolts, connect to guardrail.					
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							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch ACP at approaches.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/50.0	Sufficiency Rating (Last/Now) (%)	59.9/58.6	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girders, deck underside wearing surface.		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	Arnold Assenheimer		Previous Assistant's Name	Kris Bosters			
Next Inspection Date	16-Jul-2016		Previous Inspection Date	20-Nov-2009			
Inspection Cycle (Default) (months)	39						
Comment							