

Bridge Inspection										
Bridge File Number	77753 E-2 Bridge				Form Type	SG				
Year Built/Year Supstr	1987/1987				Lot No.	2				
Bridge or Town Name	EDSON				Inspector Name	Shane Hall				
Located Over	MCLEOD RIVER, 8.11.107, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	16:06 R1 17.032				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Aug-2012				
Legal Land Location	NW SEC 17 TWP 53 RGE 16 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-116:20:04, 53:34:53				Data Entry Date	28-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA13				Review Date	24-Aug-2012				
Clear Roadway/Skew	12.5 / 20 deg. (RHF)				Dept. Reviewer Name	Brent Herrick				
AADT/Year	8,250 / 2011 (A)				Dept. Review Date	30-Aug-2012				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS300						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	West end only.								
Other Sign Types	Information, "McLeod River".								

Utilities (Located at)										
Utility Attachments										
Telephone	North r/w				Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Not thrie beam.					
Vertical Alignment		7	7						
Roadway Width (m)	12.500								
Approach Bump		7	6						
Guardrail (Y/N)	Yes								
Guardrail		6	6						
Length (m)	76.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage		6	6						
Approach Road General Rating		7	7						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 5 Spans, Lengths(m): 35-44-44-44-35, A-Ident Number: A1083-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now						
Wearing Surface			4	5		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 90)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	4	West and east fingers are slapping & vibrate under truck traffic. 1-4mm gap under fingers. Both abutment joint plumbing is allowing water to get behind splash sheet staining backwall and exterior of gutter. There is corrosion along the galvanized drain trough. Some finger welds appear cracked/broken. One finger broken off @ SW corner.-photo 4-5mm from difference between fingers @ A2. Paving lip beginning to crack/deteriorate @ A2 in South lane.	
Temperature (deg. C)		21				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
110	West					
100	East					
Deck Drainage			4	4	Poor drainage @ abutment joint causing cracking/delam @ SE abutment/wingwall - photo.	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5		
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			7	7	70% grout pads on south side and North side beginning to spall. Rust stains along all bridgerail post base plates.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			4	4		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	There are 4 girder lines. S2, S3 & S4 viewed from banks with binoculars.	
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8	Viewed from banks and headslopes.	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 35-44-44-44-35, A-Ident Number: A1083-01)				
Paint Condition		6	6	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	Only abutment bearings accessible, P1 & P4 bearing. Viewed with binoculars, appears OK; P2 & P3 bearings not accessible for inspection - appear OK from banks.
Temperature (deg. C)	21			
(Expansion Type : SLIDING PLATE)				
(Fixed Type :)				
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		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	4	Several delams @ abut 2.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		4	4	Rust spots on NE wingwall. Missing bridge plaque at NE corner (photo). Wingwalls are cracked diagonally. Vertical wide crack @ SE corner.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				Viewed from banks with binoculars.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				Parging/concrete spalling adjacent to nose plates on E side of P2 & P3.-photo
(Total Number of Bearing Piles : 1:1:1:1)				
Pier Shaft/Piles		7	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Replace bridge plaque.					
OTHER ACTION							
OTHER ACTION	2013	Repair broken finger welds & shim to stop slapping under traffic.					
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	64.5/62.4	Est. Repl. Yr	2055	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	10-May-2014		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							