

Bridge Inspection									
Bridge File Number	09001 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1993/1993				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	748:02 C1 15.747				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Apr-2013			
Legal Land Location	SW SEC 28 TWP 54 RGE 17 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:27:19, 53:41:11				Data Entry Date	24-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA13				Review Date	21-Apr-2013			
Clear Roadway/Skew	8 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	980 / 2012 (A)				Dept. Review Date	01-May-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	40								
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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Installed on 1st approach rail post.-not to standard								
Other Sign Types	Edson River.								
Utilities (Located at)									
Utility Attachments									
Telephone	10m south.				Gas				
Power	20m North of centerline r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Field access each corner.				
Vertical Alignment			7	7					
Roadway Width (m)	9.200								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				No thrie beam/fleat				
Guardrail			6	6					
Length (m)	11.900								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			5	5	Draingage from NW approach had washed out 3m long x 1.5m deep hole along backwall. Repaired by installing drain trough & old sign to deflect flows onto grassed portion of sideslope.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SC, 3 Spans, Lengths(m): 10.7-12.2-10.7, A-Ident Number: )</b>					
<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>	5.0				
Wearing Surface			4	4	100mm dia. potholes and cracks over piers and at abutments.-photo
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles. Paved over.
Bump (Y/N)		No			
Deck Drainage			7	4	Leaking between curb and first int. @ 4 corners.
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Grout in lift pockets on curb deteriorating. 2 spalls, South side over East pier, North side over West pier. Insufficient cover over rebar.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Double layer.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(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>					
Girders			5	5	Narrow long cracks SP3 G8. Rust spots on bottoms of girders from debris left in forms during casting.
Last Complete Inspection Date		16-Apr-2013			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>24</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		Yes		East pier piles heaving South end. Girders are 20mm out of alignment vertically from abutment to piers.  Could be a sloppy girder installation after cap change issue.	
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>5</b>	<b>5</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1400)						
(Total Number of Caps/Corbels : 4:4)						
295 x 140 timber on caps.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				4	5	
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				6	6	Sheathing installed on fronts of piles @ E.
Greatest Height (m)		1.70				
Wingwalls				X	4	Tin top on NE and NW extension piles are damaged. - photo
(Total Number of Bearing Piles : 9:9)						
Only top 50mm of piles visible.						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	18	0	0	0		
<b>Now</b>	18					
Piles				N	N	
Paint/Coating				4	4	Caps are rusting. Heavy scaling.
Abutment Stability				6	6	
Scour/Erosion				4	4	Small gully from each headslope.
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
95 x 305 timber on steel caps and 305 x 305 TT subcaps.						
(Total Number of Caps/Corbels : 6:6)						
Bearing Seats/Caps/Corbels Detail Ratings						
Scaling rust on caps.						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		Caps no not appear to be drift pinned to piles.
<b>Now</b>						
Bearing Seats/Caps/Corbels				4	4	
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 19:19)						
Only tops of piles are visible due to sheathing.						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	38					
Pier Shaft/Piles				5	N	
Greatest Height (m)		4.50				
Bracing/Struts/Sheathing				4	4	Sheathing is coming loose at several locations.-photo
Nose Plate				6	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Heavy scaling rust of caps.
(Colour Description : )				
(Colour Code : )				
Pier Stability		6	6	Fill 2m higher on one side of pier than the other.
Scour		5	N	
Debris (Y/N)	Yes			Old piles
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : N)				Gentle curves each side.
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	Yes			
Slope Protection		4	4	Small erosion gully East & West headslope.
(Type : <b>NONE; NONE</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							
SEAL CURBS	2013	Patch spalls, seal.					
PATCH DECK	2013	Patch potholes and seal cracks.					
OVERLAY DECK							
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	Replace damaged tin tops.					
OTHER ACTION	2013	Re-attach loose planks.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>50.4/50.4</b>	Est. Repl. Yr	2020	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	16-Jul-2016		Previous Inspection Date	20-Nov-2009			
Inspection Cycle (Default) (months)	39						
Comment							