

Bridge Inspection										
Bridge File Number	79760 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	1985/1985					Lot No.	2			
Bridge or Town Name	EDSON					Inspector Name	Shane Hall			
Located Over	16:04 R1 49.551					Inspector Class	BR CLS A			
Located On	47:06 C1 58.421					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	15-Oct-2012			
Legal Land Location	NW SEC 10 TWP 53 RGE 18 W5M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:34:52, 53:34:06					Data Entry Date	14-Nov-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA13					Review Date	12-Nov-2012			
Clear Roadway/Skew	11 / 17 deg. (RHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,020 / 2011 (A)					Dept. Review Date	20-Nov-2012			
Road Classification	RCU-210-110					Follow-Up By				
Detour Length (km)	5									
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 Vert. Clearance Posting (m)	UNDER: 16 R1 5.2m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	EB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	In Advance (Y/N)	No
Remarks	EB grade separation only.										
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	On approach rail posts.										
Other Sign Types	Information, 50 kph, Stop Ahead.										

Utilities (Located at)									
Utility Attachments									
Telephone						Gas			
Power	3 wires SE quadrant (edge).					Municipal			
Others	Street lighting @ North & South intersections.					Problem (Y/N)	No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Hwy 16 interchange ramp at North and South end.				
Vertical Alignment			7	7	Crest curve on an overpass.				
Roadway Width (m)	11.000				Rumble strips @ North & South approach.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Missing one transition nut at NE-photo; loose @ SE.				
Guardrail			4	4	Not thrie beam.				
Length (m)	45.600								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			6	6	(Icing @ SW & SE gutter due to snow accumulation. 08/Mar/2007)				
Approach Road General Rating			6	6					

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : WG, 1 Spans, Lengths(m): 39.4, A-Ident Number: A0973-01)								
Special Features								
Special Feature			7	Zipper Repair. G1 zipper repair due to HLD.				
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)				
Last	0	0	0	0				
Now								
Wearing Surface			6	6				
(Material Type : ACP)								
(Thickness(mm) : 90)								
Deck Top			N	N				
Deck Rideability			7	7				
Deck Joints			6	4	Old rust stain on abutments. Different joint each half of deck, typical both abutments. Armoured gland East half, gland type West half.			
Temperature (deg. C)		11						
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))			Concrete spalling at underside of deck joint 2 at NW corner.-photo					
(Fixed Type :)								
Gap Size (mm)		Gap Location		110mm West half, 70mm East half N. abut. 120mm West half, 80mm East half S. abut.				
70		N. Abutment (2)						
80		S. Abutment (1)		S side of paving lip @ S. abutment deteriorating with several potholes forming.-photo				
				3 coverplate bolts sheared off at N cover plate in N. bound lane.-photo				
Deck Drainage			5	5	No drains. Scale at top of bottom flange due to previous deck joint seepage at South abutment. Drainage to South. (Icing along gutter lines due to snow accumulation. 08/Mar/2007)			
Drains Clogged (Y/N)		No						
Curbs/Median			5	5	Typical rust staining/cracking under bridgerail post locations on E side.			
(Curb Type : Standard)								
Scaling (Percent Area)								
Bridge Rail			7	7				
(Type : GALVANIZED STEEL BRIDGE TUBE)								
Bridge Rail Posts			7	7				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			6	6				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			X	X	Zipper repaired G1.			
Flange			7	7				
Web			7	7	Spliced areas in West ext girder (G1) are good.			
Stiffeners			7	7				
Splice			7	7				
Weld			7	7				
Diaphragms/Cross Frame			7	7				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 1 Spans, Lengths(m): 39.4, A-Ident Number: A0973-01)				
Paint Condition		5	5	Weathering steel, beginning to flake on the ends. Worst area where joints leak. Top side of flange scaling from salt spray from Hwy 16 EBL. Oil splatter on exterior web & bottom flange G5.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		5	5	Debonded galvanize @ anchor bolt G4 South abutment. # A/B nuts missing at 3 bearing locations @ S. abut.
Temperature (deg. C)	10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	No			
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		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	Hairline vertical cracks every approx 3.0m.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	NE seat/breastwall delaminating under G5 North bearing - photo. Delam under G1 @ N abut.-photo
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		N	6	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		8	8	HLW system is working and located over Hwy. 16 EBL and approx. 1.0 km west of structure.
Type	High Load Warning system (HLW)			
Slope Protection		4	4	Coming away from backwall 100 mm on South side and 110mm on North side.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		5	5	
Grade Separation 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	2013	Repair/replace missing cover plate bolts at N abut.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	One transition nut required at NE corner. Tighten nut on SE corner.					
OTHER ACTION	2013	Repair South paving lip.					
OTHER ACTION	2013	Repair delamination at N abutment.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	60.1/59.7	Est. Repl. Yr	2055	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Girders repaired when 30-Jun-2007 audit inspection done.		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	15-Jul-2014		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							