

Bridge Inspection									
Bridge File Number	77859 W-1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	EDSON				Inspector Name	Shane Hall			
Located Over	CARROT CREEK, 8.11.107.20, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	16:08 L1 5.654				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Aug-2012			
Legal Land Location	NW SEC 29 TWP 53 RGE 13 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:53:01, 53:36:24				Data Entry Date	10-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA12				Review Date	30-Aug-2012			
Clear Roadway/Skew	12.2 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	6,840 / 2011 (A)				Dept. Review Date	18-Sep-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:	HS25							----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
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	At East end only.								
Other Sign Types	Carrot Creek								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	Survey marker @ NE corner.				Problem (Y/N)	No			
Remarks									
Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			7	7	Curve to the east.				
Vertical Alignment			8	8					
Roadway Width (m)	11.500								
Approach Bump			7	6					
Guardrail (Y/N)	Yes				East approach corners with modified connections only. No guardrail at West end. East approach not thrie beam transition.				
Guardrail			6	6					
Length (m)	80.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RD, 3 Spans, Lengths(m): 12.2-15.2-12.2, A-Ident Number: )						
<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>						
Wearing Surface			4	6		
(Material Type : <b>CONCRETE - 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			7	7	Buffer angle at abutments.	
Temperature (deg. C)		19				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : <b>WATER STOP</b> )						
Gap Size (mm)		Gap Location				
70		W. pier				
65		E. pier				
Deck Drainage			4	4	Staining around deck drains on curb girder SP2G1&G11.-photo	
Drains Clogged (Y/N)		Yes				
Curbs/Median			6	6	Minor plow scrapes. 4 lift hook pockets not properly grouted.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Nut not fully engaged on A/B @ 2nd post from NW. (transition section (photo)).	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			4	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			6	6		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>				3		
Girders			5	3	There is staining around the deck drain (curb girders) on the center span. SP1G1, SP2G10,G11 have narrow cracks with rust staining on girder underside.-photo Appears to be from low cover. Vertical crack with no staining @ East end of SP3G1, & G11.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>33</b> )						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 12.2-15.2-12.2, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	West abutment fixed.
Temperature (deg. C)	19			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	4	Light scaling along East abutment. Spot rust staining at East abutment. 0.3m x 0.2m spall with exposed rebar @ South side of A1 and North side of A2.-photo Narrow vertical crack @ S. end of A2.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		4	4	5% spalling on SW wingwall (photo).
Piles		N	N	
Paint/Coating		5	5	5% coating peeling of abutments.
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	Concrete filled pipe piles. Piles 5, 6 & 7 in pier 1 and piles 2 & 3 in pier 2 have minor buckling of pipe on streamside. Suspect from straightening piles during const. Few rust posts lower portions.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>7:7</b> )				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>4</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Tighten nut on A/B @ 2nd post from NW.					
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	Extend deck drain pipes.					
OTHER ACTION	2013	Repair spalls on wingwalls & abutments.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.9/54.2</b>	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking.		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	12-May-2014		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							