

Bridge Inspection									
Bridge File Number	77528 E-2 Bridge				Form Type	PSR			
Year Built/Year Supstr	1987/1987				Lot No.	2			
Bridge or Town Name	EDSON				Inspector Name	Shane Hall			
Located Over	WOLF CREEK, 8.11.107.26, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	16:06 R1 24.703				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Aug-2012			
Legal Land Location	NE SEC 13 TWP 53 RGE 16 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:13:18, 53:34:42				Data Entry Date	04-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA13				Review Date	24-Aug-2012			
Clear Roadway/Skew	12.5 / 15 deg. (RHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	8,250 / 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:	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	At West end only.								
Other Sign Types	"Wolf Creek"								

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7					
Vertical Alignment			7	7					
Roadway Width (m)	12.500								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Guardrail only at West end of bridge. Not thrie beam transition, insufficient post/spacing.				
Guardrail			6	6					
Length (m)	48.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	5	50mm deep erosion gully @ NW headslope.				
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : DBT, 2 Spans, Lengths(m): 36-36, A-Ident Number:)						
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			7	7		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			3	3	South half, East abutment joint slapping under traffic due to 6 sheared coverplate bolts - photo.	
Temperature (deg. C)		21				
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
30		E. abut				
23		W. abut				
Deck Drainage			4	4	Gully on headslope @ NW. nO DECK DRAINS.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Minor plow scrapes/nicks. Longitudinal med to wide cracking on top of South curb on approx. 50% of length. Spall at underside of one post on South curb.	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
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			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Girders			5	5	Typical DBT cracks SP2G1, 4, 9 E. Coating peeling on top of bottom flange.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0		Vertical cracks at diaphragm over pier on South side and North side.		
(Number Of Girders : 18)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 2 Spans, Lengths(m): 36-36, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	Pier bearings viewed with binoculars, appears good.
Temperature (deg. C)	21			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
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		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	4	400mm long spall @ top of NE & SW adjacent to cover plates.-photo Top of wingwall under coverplate @ NW corner broken off.-photo
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		4	4	150mm deep erosion gully at NW corners.
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		7	7	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	No problems apparent.
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	(West headslope appears to have springs in it. 17/04/2000)
HWM (m below Top of Curb)				HWM not visible. Old HP in stream.-photo
Drift (Y/N)	No			
Slope Protection		4	4	Rock on east side only. Shallow erosion gully developing on NW corners from approach drainage.
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace sheared bolts @ East abutment joint cover plate, check/tighten loose bolts.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	61.7/61.7	Est. Repl. Yr	2055	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	MOnitor erosion gully @ NW. Monitor cracking/spalling of curbs.		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							