

Bridge Inspection										
Bridge File Number	00165 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1982/1982				Lot No.	2				
Bridge or Town Name	RED EARTH CR				Inspector Name	Brian Pientsch				
Located Over	SENEX CREEK, 8.10.18.3, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	88:14 C1 14.731				Assistant Name	Clem Guenette				
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	12-Jun-2012				
Legal Land Location	NW SEC 6 TWP 99 RGE 8 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:18:11, 57:33:54				Data Entry Date	06-Nov-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Brian Pientsch				
Contract Main. Area	CMA02				Review Date	04-Nov-2012				
Clear Roadway/Skew	10 / -15 deg. (LHF)				Dept. Reviewer Name	David Morrison				
AADT/Year	180 / 2011 (A)				Dept. Review Date	14-Jan-2013				
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	300									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS230						----> Primary Span			

Posting Information									
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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

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	Curve at top of N. hill in sag curve. Entrance 40m south.				
Vertical Alignment			7	7					
Roadway Width (m)	11.000				Damaged guardrail panel at SE & NE -still functional. Missing 8 bolts.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			4	4					
Length (m)	30.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			4	4	ully 40m long x 1m wide x 0.5m deep along SW ditch-grassed in.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 5 Spans, Lengths(m): 8-11-11-11-8, 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>	70	0	0	0	
<b>Now</b>	100.0	0.0	0.0	0.0	
Wearing Surface			X	X	(Lifting pockets tarred at 1% of dock has spalls. Grader scrapes. 05/05/11) Covered with gravel.
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			6	N	Covered with gravel & mud N. span- west curb unit & 1st interior has a 1/2" space. 05/05/11)
Deck Rideability			6	6	
Deck Joints			N	N	(Missing angle iron in some places - 94/11/17). (S2G2 south end is detached (photo)05/05/11 Covered with gravel.
Bump (Y/N)		No			
Deck Drainage			4	4	Covered with gravel.
Drains Clogged (Y/N)					
Curbs/Median			6	6	Minor spalls on curb corners.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			5	5	Railing not aligned very straight.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</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	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders			5	5	(S1G9, S2G9, S3G7, S4G2, S5G4 have minor diagonal cracks. CONNECTORS POCKETS FILLED WITH ASPHALT S5G9 and S1G8 south end has stirup visible low cover.
Last Complete Inspection Date		12-Jun-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>45</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			Skew pressures have 30mm horiz. mis-alignment.
Horizontal (Y/N)		Yes			
<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) : <b>N</b> )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				5	5	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : )						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.60				
Wingwalls				6	6	
(Total Number of Bearing Piles : <b>6:6</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100	0	0	0		
<b>Now</b>	6	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				4	4	Erosion scours on both headslopes.
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>1:1:1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				6	6	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>650</b> )						
(Width(mm) : <b>400</b> )						
						Honey combing on bottom of pier cap 1 & 2,east end.

Substructure						
Bridge Component				Last	Now	Explanation of Condition
(Total Number of Bearing Piles : <b>6:6:6:6</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				7	7	
Greatest Height (m)		7.00				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				4	4	Scaling rust at waterline and 10% superficial rust on remaining.
(Colour Description : <b>GREEN</b> )						
(Colour Code : <b>14090</b> )						
Pier Stability				7	7	
Scour				4	4	Erosion/scour at pier shaft toe from abutment erosion.
Debris (Y/N)		No				
<b>Substructure General Rating</b>				<b>5</b>	<b>5</b>	
Structure Usage						
				Last	Now	Explanation of Condition
<b>Channel</b>						
(U/S Direction : <b>E</b> )						
(D/S Direction : <b>W</b> )						
Alignment				7	7	
Bank Stability				5	5	
HWM (m below Top of Curb)						HWM not visible
Drift (Y/N)		Yes				Trees leaning across at u/s end, 30m away. away
Slope Protection				4	4	Erosion/scour on both headslopes.
(Type : <b>NONE</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>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							
PATCH DECK	2012	if not done					
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	2012	Cut off deck joint.-if not done					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>52.5/52.6</b>	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	I wasn't able to confirm the previous maintenance recommendations due to gravel cover. Monitor erosion on headslopes.		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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	12-Mar-2014		Previous Inspection Date	05-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							