

Bridge Inspection										
Bridge File Number	00444 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1979/1979				Lot No.	2				
Bridge or Town Name	EDBERG				Inspector Name	Jason Saly				
Located Over	DRIEDMEAT CREEK, 5.40, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	56:16 C1 32.866				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	13-Feb-2013				
Legal Land Location	NW SEC 9 TWP 45 RGE 19 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:42:48, 52:52:05				Data Entry Date	14-Mar-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA16				Review Date	25-Feb-2013				
Clear Roadway/Skew	11.3 / -30 deg. (LHF)				Dept. Reviewer Name	Chris Black				
AADT/Year	1,590 / 2011 (A)				Dept. Review Date	14-Mar-2013				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	6									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS23						----> 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)	No								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.				Gas					
Power	1 wire o/h E r/w, fence line.				Municipal					
Others					Problem (Y/N)	Yes				
Remarks	Utility voids are exposed - photo.									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Typical approaches @ both ends. 3% grade to the South, no passing.					
Vertical Alignment		6	6						
Roadway Width (m)	12.000			ACP transition @ South.					
Approach Bump		6	6						
Guardrail (Y/N)	Yes								
Guardrail		4	7						
Length (m)	26.200			38m SE, NW. 26m SW, NE. Thrie beam installed.					
Current Standard (Y/N)	Yes								
Termination Type	Turn Down								
Drainage		4	4	Erosion at NE corner of bridge and under abutment cap, and along NW wingwall.					
Approach Road General Rating		6	6						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SM, 3 Spans, Lengths(m): 11-11-11, A-Ident Number:)						
Special Features						
Special Feature		7	5	4 per span. Painted underslung beams corroded from leakage btwn girders.		
(Type : UNDERSLUNG DIAPHR)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface		4	4	Steel fibre reinforced concrete o/l. Two to five cracks along girder edges per span. Active leaking btwn G7-8, 8-9 all spans. Cracked on overlay @ A2.		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	Yes					
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		4	N	Concrete deterioration at piers & abuts.		
Bump (Y/N)	No					
Deck Drainage		4	4	No drains, slopes to N, erosion at NE; see wearing surface comments. Active leaking at pier (photo). No formal deck joints; not meant to be waterproof.		
Drains Clogged (Y/N)						
Curbs/Median		3	3	75mm hole in curb top exposing void W curb S2; void filled with dirt. (Light scaling. Plow scrapes. Chip over P1. 09May2011). 5 rebar spalls top of curb S3 E curb. (Void exposed at SW corner. 09May2011).		
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail		3	5	Ends of bridgerail at all corners removed during install of new guardrail transitions.		
(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	10	0	0	0		
Now	0	0	0	0		
Girders		4	4	Small spall off S3G1 corner - photo. Bottom edges chipped where strengthening bolts installed - photo. (Six debonded curb lifting pockets. 09May2011). Voids exposed or under shallow cover all 4 corners - photo. No action for "4" rated girders; continue regular inspection.		
Last Complete Inspection Date		09-May-2011				
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 30)						Lift/connector pockets not visible.
Span Alignment Problems						
Vertical (Y/N)		No		Rotated horizontally slightly due to skew pressure and saw toothed 35mm over North pier.		
Horizontal (Y/N)		Yes				
Superstructure General Rating		4	4			

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			6	6	Scaling at W end of N cap. Void under both caps.	
(Type : CONCRETE)						
(Depth(mm) : 650)						
(Width(mm) : 320)						
Backwalls/Breastwalls			4	4	Void behind breastwall. TT planks not filled A1.	
Greatest Height (m)		2.00				
Wingwalls			6	6	SW wing pile close to face, cracking @ face.	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles			7	7	7:7	
Paint/Coating			4	4		
Abutment Stability			5	5	Settlement of fill - 0.8m abutment 1, 0.4m abutment 2.	
Scour/Erosion			3	4	Gully started at NE corner due to drainage getting underneath abutment. Erosion at NW/NE wingwalls from deck drainage.	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			6	6	S bent constructed 3.5 degree out of plumb, leaning W. Staining on piers from joint leakage.	
(Type : CONCRETE)						
(Depth(mm) : 650)						
(Width(mm) : 650)						
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles			6	6		
Greatest Height (m)		5.00				
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating			4	4	Bottom 0.5m above water rusting, coating worn off P1, P7 @ pier 2. Rusting from deck leaking; concrete sealer peeling. No action required. Light blue.	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	
Scour		N	N	Ice covered.
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	4	Erosion channel in N hslp.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Confirm transition to guardrail is acceptable.					
SEAL CURBS	2013	Grout hole in curb 0.05m3 NH. Seal curb voids at ends so water can't pond inside. Grout lift pockets if debonded.					
PATCH DECK							
OVERLAY DECK	2013	Chipseal as short term repair.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Fill NE gully 5m3 pitrun.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Fill void under both abutment caps and redirect drainage away from abutment.					
OTHER ACTION	2013	Set approach rail to standard height.					
OTHER ACTION	2013	Paint pier piles.					
OTHER ACTION	2013	Consider sealing abuts.					
OTHER ACTION	2013	Consider wrap around bulkheads at abuts & koke joints at piers to protect ends of girders.					
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	56.0/54.2	Est. Repl. Yr	2029	Maint. Req'd. (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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	13-Nov-2014		Previous Inspection Date	09-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							