80836 -1 Bridge Culvert

Bridge Culvert Inspection														
					Billag	je Guive				CUL1				
Bridge File Number 80836 -1 Bridge Culvert Year Built 1985						Form Type Lot No.			4					
Bridge or Town Name RED DEER			-R			Inspector Name			Jason Saly					
							Inspector Class			BR CLS A				
			1 20.995	0.01, 117			Assistant Name			DIX OLG A				
Water Body Cl./	Year	27 11 10 0	. 20.000				Assistant Class							
Navigabil. Cl./Ye										21-Nov-2011				
			30 TWP 37 R		Data Entry By			Marcia Chavez						
			42, 52:12:20		Data Entry Date			21-Dec-2011						
Road Authority							Reviewer Name			John O'Brien				
Contract Main.	Area	CMA19						Date		15-Dec-2011				
Clear Roadway		11.6 /						Reviewer	Name	Andrew Smikles				
AADT/Year		8,130 / 2	.010 (A)				·			09-Jan-2012				
Road Classifica	tion	RAU-21					Follow-							
Detour Length (5						. ,						
Bridge Culvert														
Number of Culv		1												
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	6	832	4897		RPA		26.2		152X51	4.0,5.0	ARCH		
Special Features														
Special Feature	s Comi	ment												
Little Attackers					Uti	ilities (L	ocated	at)						
Utility Attachme	nts						Coo							
Telephone							Gas							
Power Others	Eibro	ontion in l	West ditch.				Municipal Problem (Y/N) No							
Remarks	rible	optics in	vest uiton.				FIODICI	11 (1/14)	INU					
Remarks				Δι	nroa	ch Road	l / Emba	ankment						
	Last		Explanation of Condition											
Horizontal Alignment			7	7	Intersection 200m South.									
Vertical Alignment				9	8	1								
Roadway Width (m)			11.600					25mm wide cracks in asphalt @ both sides of culvert - sealed.						
Embankment				8	8									
Sideslope (:1)		3.0			1									
(Height of Cover(m) : 1)														
Guardrail (Y/N)			Yes				Some guardrail blocks rotated, minor. Minor crease in SE guardrail, still functioning.							
Approach Road / Embankment General Rating			7	7										
						Unstre	∣ am End							
Culvert Component Las								ation of	Condi	tion				
Direction			W	111011										
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall			7	7	Minor ().5mm cra	acks in	headwall.						
Collar			7	7	Minor 0.5mm wide cracks @ North collar.									
Wingwalls			8	8										
(Shape:)]								
Cutoff Wall				N	N									

			Haatus	om End
Outroet Common and				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	1200			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	Based on scour rating of 22/Mar/2007.
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm): 6832	2, Rise (mm): 4897, Type: RPA)
Barrel Last Accessible Date	21-Nov-2011			File tag SE wingwall.
Special Features				
Special Feature				
(Type:)			1	
Special Feature				
(Type:)				
Roof		7	7	Could not measure rise due to ice; shape appears good.
Measured Rise (mm)		/		Could not measure rise due to ice, shape appears good.
Measured At Ring No.				
Sag (mm)				
Percent Sag			1	
Sidewall	I	7	7	Could not measure span due to width of pipe; shape appears good.
Measured Span (mm)	6860			
Measured At Ring No.	3			
Deflection (mm)	28			
Percent Deflection	0			
Floor		N	N	Ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0		<u>'</u>	
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
	INU			Minor our official lower 4/C
Coating	NI-	6	6	Minor superficial lower 1/3.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Last Now Explanation of Condition			Bric	dge Cu	vert Barrel						
Fish Passage Adequacy	Culvert Component		Last	Now	•						
Baffle	(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm): 6832	, Rise (mm): 4897, Type: RPA)						
Type :	Fish Passage Adequacy		5	5							
Waterway Adequacy 8 8 Icing (Y/N) No No Silling (Y/N) Yes Image: No continual part of the part o	Baffle		Х	Х							
Icing (Y/N)	(Type:)										
Silting (Y/N) Yes No No No No No No No N	Waterway Adequacy		8	8							
Drift (Y/N) No	Icing (Y/N)	No									
Drift (Y/N) No	Silting (Y/N)	Yes									
To To To To To To To To	-	No									
Culvert Component Last Now Explanation of Condition Direction E CONCRETE T			7	7							
Direction E CONCRETE CONCRETE CONCRETE CONCRETE CONCRETE CONCRETE CONCRETE CONCRETE To pleadwall (aused by wood in concrete. Insignificant. aused by wood in concrete. Insignificant. aused by wood in concrete. Insignificant. To pleadwall (aused by wood in concrete. Insignificant. aused by wood in concrete. Insignificant. aused by wood in concrete. Insignificant. Collar 7 7 1.0mm crack in North & 0.5mm crack in South. Wingwalls (Shape :) 8 8 8 8 (Shape :) N N N Cutoff Wall N N N Bevel End BELOW N N Above/Below Stream Bed Above/Below Stream Bed Above/Below (mm) BELOW N N Above/Below (mm) 1200 N N N Scour Protection N N N N (Avg. Rock Size(mm) : 200) N N N N Scour/Erosion N N N N Beavers (Y/N) No N N N Downstream End General Ratius			D	ownstr	eam End						
End Treatment (Concrete, Steel, Others, None) CONCRETE Headwall 7 7 2 - 25mm deep x 100mm wide x 150 to 250mm long spalls in top the adwall, caused by wood in concrete. Insignificant. Collar 7 7 1.0mm crack in North & 0.5mm crack in South. Wingwalls 8 8 8 (Shape:) N N N Cutoff Wall N N N Bevel End 8 7 Peaving (mm) 0 Invert Above/Below Stream Bed Above/Below (mm) BELOW Strow covered. Snow covered. Scour Protection N N N Snow covered. (Type: RIP RAP) (Avg. Rock Size(mm): 200) Scour/Erosion N N N Scour/Erosion No N N N N Downstream End General Rating 7 7 7 T Channel (U/S and D/S) Last Now Explanation of Condition	Culvert Component		Last	Now	Explanation of Condition						
Others, None) Total Collar Total Collar Total Collar Total Collar Collar Total Collar Col	Direction		E								
headwall, caused by wood in concrete. Insignificant.	End Treatment (Concrete, Steel, Others, None)	CONCRETE		_							
Wingwalls	Headwall		7	7	2 - 25mm deep x 100mm wide x 150 to 250mm long spalls in top of headwall, caused by wood in concrete. Insignificant.						
Cutoff Wall	Collar		7	7	1.0mm crack in North & 0.5mm crack in South.						
Cutoff Wall N N N Bevel End 8 7 Heaving (mm) 0 Invert Above/Below Stream Bed Above/Below (mm) BELOW	Wingwalls		8	8							
Bevel End	(Shape :)										
Heaving (mm) 0	Cutoff Wall		N	N							
Invert Above/Below Stream Bed	Bevel End		8	7							
Above/Below (mm) 1200											
Scour Protection N											
Scour Protection N											
(Avg. Rock Size(mm) : 200) Scour/Erosion N N Beavers (Y/N) No				N	Snow covered.						
(Avg. Rock Size(mm) : 200) Scour/Erosion N N Beavers (Y/N) No	(Type : RIP RAP)										
Beavers (Y/N) No To a provide the second structure and the second str											
Downstream End General Rating 7 7 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S)	Scour/Erosion		N	N							
Structure Usage Last Now Explanation of Condition Channel (U/S and D/S)	Beavers (Y/N) No										
Last Now Explanation of Condition Channel (U/S and D/S)	Downstream End General Ratin	ng	7	7							
Last Now Explanation of Condition Channel (U/S and D/S)			S	tructu	re Usage						
			Last	Now	Explanation of Condition						
Alignment 9 8	Channel (U/S and D/S)										
	Alignment		9	8							
Bank Stability 9 8	Bank Stability		9	8							
HWM (m below Top of Culvert) HWM not visible.					HWM not visible.						
Drift (Y/N) No											
Channel Bottom Degrading/Aggrading AGGRADING D/S silted in.					D/S silted in.						
Beavers (Y/N) No	Beavers (Y/N)	No									
(Fish Compensation Measure 1 : NONE)	(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 : NONE)	(Fish Compensation Measure 2 :	NONE)									
Channel General Rating 9 8	Channel General Rating		9	8							

				Mainto	enance Reco	ommend	lations						
Inspector Recommendations	Year Inspector Comments					Department Co	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS						·							
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC)FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No. (%)	ow)	v) 77.8/77.8		Sufficiency Rating (Last/Now) (%)		w) 7	78.6/77.9		st. Repl. Yr 2048		Maint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date				Estimated Tota	ıl O	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Owe		Salava			P	revious	Assistant's Nam	е					
Next Inspection Date 21-A		g-2013			F	revious	Inspection Date		10-Feb-2010				
Inspection Cycle (Default) (months) 21													
Comment													