					Brida	e Culve	ert Inspe	ection					
Bridge File Nur	mber	77927 -1 Bridge Culvert							CULE				
Year Built		1978					Lot No.		4				
Bridge or Town	Name	RAINBO	N LAKE				Inspector Name			Brian Pientsch			
Located Over			DER TRIBUTA	ARY TO S	SOUSA	<b>A</b>	Inspector Class		BR CLS A				
			9.21.1.3, WAT				Assistant Name		Clem Guenette				
Located On		58:04 C1	13.477				Assistant Class		Olom Gadriotto				
Water Body Cl.	./Year							ion Date		11-Jan-2012			
Navigabil. Cl./Y	/ear						Data Entry By			Theresa Lacusta			
Legal Land Loc	cation	NW SEC	35 TWP 109	RGE 8 W	/6M		Data Entry Date			04-Mar-2012			
Longitude, Latitude -119:13:37, 58:30:29									Eric Carcoux				
Road Authority Alberta Transportation (AIT)									26-Feb-2012				
Contract Main.	Area	CMA01							David Morrison				
Clear Roadway	//Skew	15 / 30 d	og (DUE)				•		30-Mar-2012				
AADT/Year		740 / 201	1 (A)				Follow-		<u> </u>	00 Mai 2012			
Road Classifica	ation	RAU-211	.8-110				_ Cilow	Op Dy					
Detour Length	(km)	999											
Bridge Culver	t Inform	ation											
Number of Cul	verts	1											
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S	-		2400		MP		8		125X26	2.8	ROUND	
1	MAIN	-		2134		MP		40.8		68X13	4.3	ROUND	
1	D/S	-		2700		MP		16		125X26	2.8	ROUND	
Special Feature										1			
Special Feature		ment											
,													
					Uti	ilities (L	ocated	at)					
Utility Attachme							I _		1				
Telephone North r/w.						Gas							
Power		n r/w - 3 lin			Municip								
Others		orary cable crossing.					Problen	n (Y/N)	Yes				
Remarks	Telep	hone cabl	e crossing u/s					_					
				A				nkment					
					Last	Now	Explanation of Condition						
Horizontal Alig					8	8	Intersection 400m East.						
Vertical Alignm			45.000		8	8							
Roadway Widtl	n (m) 		15.000										
Embankment					7	7							
Sideslope (_	_:1)		4.0										
(Height of Co	ver(m) :	2.5)											
Guardrail (Y/N)	)		No										
Approach Roa	ad / Eml	bankment	General Rat	ing	8	8							
						Upstre	am End						
Culvert Comp	onent				Last	Now		ation of	Condi	tion			
Direction					N								
End Treatment Others, None)	End Treatment (Concrete, Steel, STEEL												
Headwall					Х	Х							
Collar	Collar				Х	X							
Wingwalls					Х	X							
(Shape: )													

Culvert Common and				am End
Culvert Component Cutoff Wall		Last X	Now	Explanation of Condition
Cuton wan		\ \ \	_ ^	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	N	Covered in snow
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	N	Covered in snow
	I			
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Openicam Ena Conorai Rating				
				vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		(mm):	, F	Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	11-Jan-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		9	9	
Measured Rise (mm)	2420	9	9	@ cl - 27-May-2010
Measured At Ring No.	2420			Deflection upward
Sag (mm)	20			
Percent Sag	1			Ice on floor
Sidewall		8	8	
Measured Span (mm)	2362	0	0	
Measured At Ring No.	2302			@ cl
Deflection (mm)	38			Deflection inward
Percent Deflection	2			
		N.	N.	
Floor		N	N	Under water/ice Corwn to ice is 1.339m
Bulge (mm)				
Measured At Ring No.	No			
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

		Brid	lge Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2400, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ng	8	8	
Culvert Component			lge Cu Now	Ivert Barrel
Culvert Component (Pipe # : 1, Primary Span, Locat	tion Codo: MAIN Sna			Explanation of Condition , Rise (mm): 2134, Type: MP)
Barrel Last Accessible Date	11-Jan-2012	11 (111111	).	, Rise (IIIII). 2134, Type. MF)
Barrei Last Accessible Date	11-Jan-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		4	4	Crease along roofline from original installation.
Measured Rise (mm)	2223			at cl -27-Mar-2010
Measured At Ring No.				
Sag (mm) 89				1.019 ice to crown
Percent Sag	4			
Sidewall		6	6	
Measured Span (mm)	2068			at cl
Measured At Ring No.				Deflection inward.
Deflection (mm)	66			
Percent Deflection	3			
Floor	1	N	N	Under water/ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No		1	
Circumferential Seams	I	4	4	Seam connecting to u/s bevel 120mm space at bottom tight on top due to u/s.
Separation (mm)			1	1
Longitudinal Seams	I	X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	Rust on lower 1/3, where visible27-Mar-2010
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			

		Bric	Bridge Culvert Barrel						
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2134, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4						
		Bric	dae Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: D/S. Span			Rise (mm): 2700, Type: MP)					
Barrel Last Accessible Date	11-Jan-2012		, -						
	• • • • • • • • • • • • • • • • • •								
Special Features									
Special Feature									
(Type:)		I	1						
Special Feature									
(Type:)									
Roof		8	8	@ cl measrued 26-Aug-2008					
Measured Rise (mm)	2694			1.444m ice to crown					
Measured At Ring No.									
Sag (mm)	6								
Percent Sag	1		1						
Sidewall		9	8	@ cl					
Measured Span (mm)	2671								
Measured At Ring No.				Deflection inward.					
Deflection (mm) 29									
Percent Deflection	1								
Floor		N	N	Under water/ice					
Bulge (mm)									
Measured At Ring No.	No								
Abrasion (Y/N) Circumferential Seams	INO		8						
Separation (mm)	40	8	0						
Longitudinal Seams	40	X	Х						
Total No. of Cracked Rings		^	^						
Total No. of Rings with Two									
Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)			1						
Coating		8	8						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	(mm):	, F	Rise (mm): 2700, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel Extension General Ratir</b>	ıg	8	8	
		D	ownstr	ream End
<b>Culvert Component</b>		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End	I.	8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200		T	
Scour Protection		8	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion	ı	8	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :				
Channel General Rating	· · · · · · · · · · · · · · · · · · ·	7	7	

77927 -1 Bridge Culvert

		Maintenance	Recommend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 44.4/44	.4 Sufficiency Rating (Las	st/Now) 6	ow) <b>63.9/64.4</b> Est.		2020	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Brian Pientsch		Previous A	Assistant's Name	Lisbeth Medir	na			
Next Inspection Date	11-Oct-2013		Previous I	nspection Date	27-May-2010				
Inspection Cycle (Default) (months)	21								
Comment									