					Brida		ort Inco	ection						
Bridge File Number 79379 -1 Bridge Culvert					Dinag	e Guiv	Form Type			CUL1				
Year Built 1981							Lot No.			2				
Bridge or Town	Name		RUCE GROVE				Inspector Name			Eric Carcoux				
Located Over TRIB			RIBUTARY TO ATIM CREEK, 6.65.8.2,					tor Class		BR CLS A				
		WATER	/ATERCRS-ST					ant Name		BROLSA				
Located On		16:14 R1	1 25.382;16:14 L1 25.391				Assistant Class							
Water Body Cl./Year							Inspection Date		10-Aug-2012					
Navigabil. Cl./							Data Entry By			Theresa Lacusta				
Legal Land Lo		C 13 TWP 53 RGE 27 W4M					ntry Date		19-Sep-2012					
Longitude, Lat								ver Name		Stew Hagan				
			Transportation (AIT)					/ Date		13-Sep-2012				
Contract Main. Area CMA11								Reviewer Na	me	Brent Herrick				
		1	-23 deg. (LHF)				Dept. Review Date			09-Oct-2012				
AADT/Year			33,060 / 2011 (A)				Follow	Follow-Up By						
Road Classific		RAD-412	2.4-120											
Detour Length	· /	1												
Bridge Culver		nation												
Number of Cul								1		0 0 "				
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	-		1600		MP	83 68X13 2.8				2.8	ROUND		
Special Featur	es													
Special Featur	es Comi	ment												
-														
					Ut	ilities (l	Located	at)						
Utility Attachm														
Telephone	South						Gas							
Power	3 wire	es North r/	w.				Munici							
Others							Proble	m (Y/N) No	0					
Remarks	File ta	ag U/S.												
				A				ankment	m al i f	ion				
Horizontal Alignment			Last 8	Now 8	Explanation of Condition Slight horizontal curve.									
					9	9								
v	Vertical Alignment Roadway Width (m)				9	9	WBL 12.2, EBL 11.8.							
					_	Crack	in asphalt ov	er c	culvert on EBL. Typical on Hwy 16.					
Embankment					8	4	2-1mx	2mx0 8m de	en ir	ves @ NOrth e	mbankment n	ear outletphoto		
Sideslope (6.0				-		0P]F					
(Height of Co		: 1.8)												
Guardrail (Y/N)		No											
Approach Roa	ad / Eml	bankmen	t General Rat	ing	8	8								
						Upotro	om End							
Culvert Comp	onent				Last	Now	am End Explar	ation of Co	ondit	ion				
Direction					S									
End Treatmen	t (Concre	ete, Steel.	STEEL											
End Treatment (Concrete, Steel, STEEL Others, None)				N/	V									
Headwall					X	X								
Collar			X	Х										
Wingwalls			X	X										
(Shape :)													
Cutoff Wall					X	Х								

Alberta Transportation

	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	7	One corner of bevel at invert is pushed in 300mm est. Covered by					
Heaving (mm)	100			grass.					
Invert Above/Below Stream Bed				_					
Above/Below (mm)	0		1						
Scour Protection		6 6		Bagged concrete deteriorated. Settlement along sides of bevel up to					
(Type : CONCRETE)				0.3m. Stable.					
(Avg. Rock Size(mm) :)			1						
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Bric	lge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)):	, Rise (mm): 1600, Type: MP)					
Barrel Last Accessible Date	07-Oct-2010			Pipe appears to have been over compacted on sides.					
Special Features	·								
Special Feature									
(Туре :)									
Special Feature									
(Type:)									
Roof		4	5						
Measured Rise (mm)	1733			Upwards.					
Measured At Ring No.									
Sag (mm)	133								
Percent Sag									
Sidewall		3	5						
Measured Span (mm)	1412								
Measured At Ring No.									
Deflection (mm)	188			Inwards.					
Percent Deflection									
Floor			5	Silt on floor for D/S 1/2. Minor superficial rust. Dent on floor.					
Bulge (mm)	0	5	U						
Measured At Ring No.	-								
Abrasion (Y/N)	No								
Circumferential Seams		5	5	Minor upward dent 75mm on floor @ 1/4 L .Not nesting together at					
Separation (mm)	180	5	5	most coupler locations 30mm gaps between plates.					
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		5	5	Superficial rust on floor LI/S 1/2					
	No	5	5	Superficial rust on floor U/S 1/2.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

79379 -1 Bridge Culvert

		Brid	d <u>ge Cu</u>	Ivert Barrel
Culvert Component		Explanation of Condition		
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	Last Now an (mm):		, Rise (mm): 1600, Type: MP)
Fish Passage Adequacy		X	X	Overgrown by willows D/S. 0.6m perched end.
Baffle		X	X	
(Туре :)				
Waterway Adequacy		5	5	D/S end half blocked by willows & dirt.
Icing (Y/N) No				
Silting (Y/N) No				
Drift (Y/N)	No			
Barrel General Rating		3	5	
-				
				ream End
Culvert Component		Last Now		Explanation of Condition
Direction	STEEL	N		-
End Treatment (Concrete, Steel, Others, None)	SIEEL			
Headwall	1	Х	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		5	5	Half covered with dirt and willows.
Heaving (mm)	150			
Invert Above/Below Stream Bed BELOW				
Above/Below (mm)	150			
Scour Protection		5	4	3mx3mx1m deep scour hole
(Type : NONE)				_
(Avg. Rock Size(mm) :)				
Scour/Erosion			4	
Beavers (Y/N)	Beavers (Y/N) No			
Downstream End General Ration	າg	5	4	
		s	Structu	re Usage
		1	1	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading				
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating			7	

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments			Department Con		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2012	Fill holes	in embankment.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	33.3/55.6		Sufficiency Rating (Last/Now) (%)		43.4/52.8	Est. F	st. Repl. Yr 2030		Maint. Re	qd. (Y/N)	Yes
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	Kris Bo	Kris Bosters Pr				evious Assistant's Name						
Next Inspection Date	10-May-2014 Prev				Previous	us Inspection Date 07-Oct-2010						
Inspection Cycle (Default) (months)	21											
Comment												