					Brida	e Culve	ert Insp	ection					
Bridge File Number 09103 -1 Bridge Culvert					- 11 to 5		Form 7		CUL1				
Year Built		1956					Lot No		1				
Bridge or Town	Name	CAMROS	SE				Inspec	pector Name Owen Salava					
Located Over		TRIBUTA	RY TO DRIE	DMEAT (CREEK	ζ,	Inspec	tor Class	BR CLS A				
			/ATERCRS-S	Т			Assista	nt Name					
Located On		26:10 C1	9.220				Assista	nt Class					
Water Body Cl.							Inspec	tion Date	06-Nov-2012				
Navigabil. Cl./Y							Data E	ntry By	Z				
Legal Land Loc			1 TWP 47 RG	E 19 W4I	М		Data E	Data Entry Date 20-Nov-2012					
Longitude, Lati			0, 53:01:05				Reviewer Name		John O'Brien				
Road Authority			ransportation	(AIT)			Reviev	/ Date	14-Nov-2012				
Contract Main.		CMA16					Dept. F	Reviewer Nam	Andrew Smikles				
Clear Roadway	//Skew	15.2 /				Dept. Review Date		26-Nov-2012					
AADT/Year		1,900 / 2	• •			Follow-Up By							
Road Classifica		RCU-209)-110				-						
Detour Length	· ,	6											
Bridge Culver													
Number of Cul		1						1					
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Type		Length	Corr. Profile	Pl./Slab	Shape		
1	MAIN	AIN 2134 1549				RPP		31	Thickness 152X51 2.8 PIPE		PIPE ARCH		
Special Features BARREL ELBOW						1111		01	102/101		1.11.27.11.011		
Special Features Comment													
opedan catalos dominent													
I Willer Add a brown and a					Uti	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone	South	r/w.					Gas						
Power	2 wire	s 25m No	rth of c/l.				Munici	pal					
Others							Proble	m (Y/N) No					
Remarks													
				A				ankment	124				
Liamina netal Alian							1	ation of Con		CLL 024 Turns	ing lange 45 One		
Horizontal Align					7	7	over pi		North 15m East,	5H 834. Turn	ing lanes, 15.2m		
Roadway Widtl			15.200		9	9		•					
Roadway Widt	11 (111)		15.200										
Embankment					7	7							
Sideslope (_	_:1)		3.0				1						
(Height of Co	ver(m)	: 1.6)											
Guardrail (Y/N))		No										
					_								
Approach Roa	ad / Eml	bankment	General Rati	ing	7	7							
						Upstre	am End						
Culvert Comp	onent				Last	Now		ation of Con	dition				
Direction					N								
End Treatment Others, None)	(Concre	ete, Steel,	STEEL										
Headwall					Х	Х							
Collar					Х	Х							
Wingwalls					Х	X							
(Shape:)							1						
Cutoff Wall					Х	X							
,					,								

				eam End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	200							
Scour Protection		6	6	Limited amount of rock, well grassed. Overgrown with vegetation.				
(Type : RIP RAP)				-				
(Avg. Rock Size(mm) : 250)								
Scour/Erosion		6	6					
Beavers (Y/N)	No							
Upstream End General Rating		6	6					
		Brid	dae Cu	llvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S							
Barrel Last Accessible Date	06-Nov-2012		<u>, </u>	600mm water.				
Special Features								
Special Feature		5	5	4m in from North end.				
(Type : BARREL ELBOW)								
Special Feature				-				
(Type:)								
Roof		4	4	Am from unctroom and Two roof coame are cusping inward from				
Measured Rise (mm)	1490	4	4	4m from upstream end. Two roof seams are cusping inward from poor nesting & torquing of plates - photo.				
` '	1490							
Measured At Ring No.	50			_				
Sag (mm)	59			_ 3.8%				
Percent Sag	3							
Sidewall	I	6	6					
Measured Span (mm)	2170			4m from u/s end.				
Measured At Ring No.								
Deflection (mm)	36			_				
Percent Deflection	1		_					
Floor		N	N	~0.5m ice/water.				
Bulge (mm)	0			Superficial corrosion below normal waterline.				
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		5	5	Rated @ welded bend seam near U/S end.				
Separation (mm)	0							
Longitudinal Seams		4	4	4m from upstream end.				
Total No. of Cracked Rings	0			3 roof seams are cusping inward from poor nesting & torquing of plates - photo.				
Total No. of Rings with Two Cracked Seams				- μιαίσο - μποίο. 				
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No			1				
Coating		4	4	Scaling & pitting rust below waterline lower 1/3. Alkaline stains in boli				
Corrosion By Soil (Y/N)	Yes	7		holes.				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							
Panding (V/N)	Vec			Rarral at low point between both ands				
Ponding (Y/N)	Yes			Barrel at low point between both ends.				

		Bric	ige Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2134	, Rise (mm): 1549, Type: RPP)
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	Overgrown with vegetation.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	6	6	
		S	tructur	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)			1	
Alignment			6	Bends, curves to highway ditch @ both ends.
Bank Stability			6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

Alberta Transportation

### Target Year ### Target Year ### A paint Req ### A paint Red ### A					Maintenance Recommendations	nendations					
PAIRS NAL RIP RAP NAL RIP RAP Strutt pipe if replacement not upcoming. Strutt pipe if replacement not upcoming. Strutt pipe if replacement not upcoming.	Inspector Recomm	nendations	Year	Inspector Co	omments	Department Con	nments	Ľ		Est. Cost	Cat#
NAIL RIP RAP	SHOTCRETE REF	PAIRS									
SETE GENERAL LININGS Strut pipe if replacement not upcoming. Strut pipe if replacement not upcoming.	PLACE ADDITION	VAL RIP RAP									
STOUT DETECTION NOTING STOUT pipe if replacement not upcoming. SETE COLLAR/CUTOFF STOUT pipe if replacement not upcoming.	REMOVE DRIFT	ACCUMULATION									
SETE COLLAR/CUTOFF	INSTALL CONCR	ETE/STEEL LINING									
2015 Replace pipe. 2015 Replace pipe if hwy widened due to corrosion. 30May/2006). 2015 20	INSTALL STRUTS	(0	2013	Strut pipe if	replacement not upcoming.						
rition Rating (Last/Now) 44.444.4 Sufficiency Rating (Last/Now) 58.3/58.3 Est. Repl. Yr 2015 Replace pipe if hwy widened due to corrosion. 30May2006). Monitor roof seam cusping at future inspections until pipe is replaced. Department Comments Est. Repl. Yr 2015 Inwed By Date Date Estimated By Estimated By Invested By Dave Lam Previous Assistant's Name Estimated By Invested By Dave Lam Previous Assistant's Name Inchious Inspection Date Default) (months) 21	INSTALL CONCR	ETE COLLAR/CUTO	FF								
2015 Replace pipe. 2016 Replace pipe. 2015 Replace pipe. 2015 Replace pipe. 2015 Replace pipe if hwy widened due to corrosion. 30May2006). 2015 2	REPAIR SEAMS										
Hiton Rating (LastNow) 44.444.4 Sufficiency Rating (Last/Now) 58.3/58.3 Est. Repl. Yr 2015 (Replace pipe if hwy widened due to corrosion. 30May2006). Department Comments Comments Comments Estimated fewed By Anonitor normal BIM. Should be good until 2015. Date Estimated am (Y/N) Dave Lam Previous Assistant's Name 10-Dec.2010 Pate 06-Aug-2014 Previous Inspection Date 10-Dec.2010	OTHER ACTION		2015	Replace pip	Je.						
Ition Rating (Last/Now) 44.44.4 Sufficiency Rating (Last/Now) 58.3/58.3 Est. Repl. Yr 2015 (Replace pipe if hwy widened due to corrosion. 30May2006). Operatment Comments Comments Comments fiewed By Strategy 2004.05.28 Monitor normal BIM. Should be good until 2015. Date Estimate am (Y/N) Previous Assistant's Name In-Dec-2010 Date And Control of the Lam Previous Inspection Date In-Dec-2010	OTHER ACTION										
Ition Rating (Last/Now) 44.44.4 Sufficiency Rating (Last/Now) 58.3/58.3 Est. Repl. Yr 2015 (Replace pipe if hwy widened due to corrosion. 30May2006). Department Comments Comments Estimative of Seam cusping at future inspections until pipe is replaced. Department Comments Estimative of Seam cusping at future inspections until pipe is replaced. Date Estimative of Seam cusping at future inspection of Seam cusping at	OTHER ACTION										
NNow) 44.44.4 Sufficiency Rating (Last/Now) 58.3/58.3 Est. Repl. Yr 2015 nwy widened due to corrosion. 30May2006). Department Comments Estim a cusping at future inspections until pipe is replaced. Date Estim 2004.05.28 Monitor normal BIM. Should be good until 2015. Date Estim Dave Lam Previous Assistant's Name 10-Dec-2010 06-Aug-2014 Previous Inspection Date 10-Dec-2010	OTHER ACTION										
m cusping at future inspections until pipe is replaced. 2004.05.28 Monitor normal BIM. Should be good until 2015. Date 2004.05.28 Monitor normal BIM. Should be good until 2015. Dave Lam Dave Lam 06-Aug-2014 21 21	Structural Condit (%)	tion Rating (Last/No			ufficiency Rating (Last/Now) 6)	58.3/58.3	Est. Repl. Yr	2015	Maint. Requ		Yes
2004.05.28 Monitor normal BIM. Should be good until 2015. Dave Lam 06-Aug-2014 21	Special Comments for Next Inspection	(Replace pipe if hwy Monitor roof seam c	widened due i usping at future	to corrosion. 30 e inspections u	0May2006). ıntil pipe is replaced.	Department Comments					
2004.05.28 Monitor normal BIM. Should be good until 2015. Dave Lam 06-Aug-2014 21	Maintenance Revi	ewed By				Date		Esti	imated Total	0	
Dave Lam 06-Aug-2014 Previous Assistant's Name 06-Aug-2014 Previous Inspection Date	Proposed Long-Te	erm Strategy	2004.05.28 Ma	onitor normal E	3IM. Should be good until 2015	·					
Dave Lam 06-Aug-2014 Previous Assistant's Name 06-Aug-2014 21	On 3-Year Prograi	m (Y/N)									
Dave Lam Previous Assistant's Name 06-Aug-2014 Previous Inspection Date	Proposed Action										
06-Aug-2014 Previous Inspection Date	Previous Inspector	r's Name	Dave Lam		Previ	ous Assistant's Name					
	Next Inspection Da	ate	06-Aug-2014		Previ	ous Inspection Date	10-Dec-2010				
Comment	Inspection Cycle (I		21								
	Comment										

				Maintenance R	ecommen	dations						
Inspector Recommendations		Year	Inspecto	or Comments		Department C	commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINII	NG .											
INSTALL STRUTS		2013	Strut pipe if replacement not upcom		ning.	ning. Defer, deflection not an issue at the present time			e present			
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION		2015	Replace	e pipe.		Programmed				2022		
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last (%)	/Now)	ow) 44.4/44.4 Sufficiency Rating (Last/No			t/Now)	w) 58.3/58.3 Est. Repl. Yr		2015	Maint. Re	eqd. (Y/N)	Yes	
Special Comments for Next Inspection (Replace pipe if h	wy wider n cusping	ned due t g at future	to corrosic e inspectio	on. 30May2006). ons until pipe is replaced.		Department Comments	Replac	cement progra	immed fo	r 2022		
Maintenance Reviewed By	Andre	w Smikle	es			Date	19-De	c-2012	1	Estimated Tota	al 0	
Proposed Long-Term Strategy 2				mal BIM. Should be good u	ntil 2015.			-				
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name D		Lam			Previous	ous Assistant's Name						
Next Inspection Date	06-Aug	g-2014			Previous	Inspection Date	1					
Inspection Cycle (Default) (months)	21											
Comment												