					Brido	e Culve	ert Inspe	ction						
Bridge File Nu	mber	00967 -1	Bridge Culve					Form Type CUL1						
Year Built		1965					Lot No.	71 -	1					
Bridge or Town	n Name	ALIX						or Name	Owen Salava					
Located Over			′ CREEK, 3.65	5.2.1.1, W	ATER	CRS-	1	or Class	BR CLS A					
		ST						nt Name						
Located On		12:12 C	1 11.167				Assista	tant Class						
Water Body Cl								on Date	30-Aug-2012	30-Aug-2012				
Navigabil. Cl./	Year						Data Er			Marcia Chavez				
Legal Land Lo		NW SEC	36 TWP 39 F	RGE 23 W	4M			ntry Date	17-Sep-2012	17-Sep-2012				
Longitude, Lat			33, 52:24:08				Reviewer Name		John O'Brien					
Road Authority	/	Alberta 7	<b>Fransportation</b>	(AIT)		Review Date			06-Sep-2012	06-Sep-2012				
Contract Main.	. Area	CMA20					Dept. R	eviewer Nan	ne Andrew Smikl	es				
Clear Roadwa	y/Skew	13.4 / 0	deg.					eview Date		18-Oct-2012				
AADT/Year		1,750 / 2	2011 (A)				Follow-I							
Road Classific		RAU-21	3.4-110			, ,								
Detour Length		8												
Bridge Culver														
Number of Cul	1	1												
Pipe #	Barrel	8	Span	Rise (or I	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape			
1 MAIN -				1800		SP		55.5	152X51		ROUND			
Special Features							1927.6							
Special Features Comment														
•														
					Ut	ilities (L	Located	at)						
Utility Attachm	ents													
Telephone							Gas							
Power							Municip							
Others							Problem	n (Y/N) No						
Remarks														
				Ap	_		d / Emba							
								ation of Cor						
Horizontal Alig					7	7	Intersection with road 50 m West of pipe. No passing EB.							
Vertical Alignm			10.100		8	8								
Roadway Widt	in (m)		13.400											
Embankment					7	7	Berm at	bottom of S	toe.					
Sideslope (:1) 3.0														
(Height of Co		: 5.5)												
Guardrail (Y/N			No											
		h a n lem a n	t Canaral Bat	lin er	7	7								
Approach Ro	ad / Emi	oankmen	t General Rai	ing	7	_ ′								
							am End							
Culvert Comp	onent				Last	Now	Explana	ation of Cor	dition					
Direction			T:		S									
End Treatmen Others, None)	t (Concr	ete, Steel	, STEEL				L							
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					X	X								
(Shape :	)													
Cutoff Wall					Х	Х								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	4	Perforations in floor - photo. Floor algae-covered.
Heaving (mm)	200			Floor algae-covered.
Invert Above/Below Stream Bed	1 0			
Above/Below (mm)	100		1	
Scour Protection		5	4	Some rock. Scour alongside SW corner.
(Type : RIP RAP)				- Coour diorigation Control.
(Avg. Rock Size(mm) : <b>200</b> )			1	
Scour/Erosion		5	4	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dge Cu	ilvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	<b>)</b> :	, Rise (mm): 1800, Type: SP)
Barrel Last Accessible Date	19-Apr-1991			Not accessible due to severe sag & water level rising rapidly to near roof; viewed from ends, shape OK.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	500mm clear roof to water.
Measured Rise (mm)				(Est.)
Measured At Ring No.				
Sag (mm)	1000			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	(50 mm bending at some seams. 91/04/19).
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	Staining through seams, perforations in bevel floor.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	NEG			Est. 1000mm neg camber.

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	):	, Rise (mm): 1800, Type: SP)
Ponding (Y/N)	Yes			Severe neg camber (900mm). Creates ponding in center, D/S end above streambed.
Fish Passage Adequacy		4	4	Outlet perched 0.5m.
Baffle		N	N	
(Type:)				
Waterway Adequacy		4	4	(Silted 800 mm in center and none at ends. 95/05/10).
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried forward since 19Apr1991.
				ream End
Culvert Component		Last	Now	Explanation of Condition
Direction End Treatment (Concrete, Steel,	STEEL	N		
Others, None) Headwall		X	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		5	5	Bevel projects 250 mm from fill.
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	600			
Scour Protection		4	4	Minor scour beneath and along barrel.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		4	4	Minor scour - channel has rock / concrete pieces.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
				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			(91/04/19) Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
<b>Channel General Rating</b>		7	7	

Alberta Transportation

					Maintenance Recommendations	Recommenda	tions					
Inspector Recommendations	ions	Year		Inspector Comments	omments		Department Comments	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							-					
PLACE ADDITIONAL RIP RAP	P RAP											
REMOVE DRIFT ACCUMULATION	AULATION											
INSTALL CONCRETE/STEEL LINING	TEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF	OLLAR/CUTOF	Į.										
REPAIR SEAMS												
OTHER ACTION		2012		ewater & I	Dewater & level II barrel inspection.							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)	ating (Last/Nov		44.4/44.4	າຮ	Sufficiency Rating (Last/Now) (%)		37.7/37.7	Est. Repl. Yr	2018	Maint. Reqd. (Y/N)		Yes
Special Inspec Comments for gets a Next Inspection	א at low water l ny worse.	evel; consi	der con	ncrete floor	Inspect at low water level; consider concrete floor or invert armour plates if corrosion Comments gets any worse.	s if corrosion	Department Comments					
Maintenance Reviewed By	3y						Date		Ě	Estimated Total	0	
Proposed Long-Term Strategy	ategy											
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name		Owen Salava	va			Previous A	Previous Assistant's Name					
Next Inspection Date		30-May-2014	14			Previous Ir	Previous Inspection Date	26-Aug-2010	0			
Inspection Cycle (Default) (months)		21										
Comment												

					M	aintenance R	ecommend	lations						
Inspector Recom	mendations		Year	Inspecto	or Comments	5		Department C	Commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS													
PLACE ADDITIO	NAL RIP RAP													
REMOVE DRIFT	ACCUMULATION													
INSTALL CONCE	RETE/STEEL LINING	3												
INSTALL STRUT	S													
INSTALL CONCE	RETE COLLAR/CUT	OFF												
REPAIR SEAMS														
OTHER ACTION			2012	Dewater & level II barrel inspection.			٦.	Chris Black viewed site on 8-Jan-2010 and determined no action required.						
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condi	tion Rating (Last/N	low)	44.4/44	.4	Sufficiency (%)	y Rating (Las	t/Now)	37.7/37.7	Es	t. Repl. Yr	2018	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection Inspect at low water level; consider concrete floo corrosion gets any worse.					e floor or inve	ert armour plat	es if	Department Comments	Currer	ntly programm	ed to be	replaced in 20 <sup>-</sup>	18.	
Maintenance Reviewed By Andre			w Smikle	:S				Date	19-No	v-2012		Estimated Tota	al O	
Proposed Long-Term Strategy														
On 3-Year Progra	ım (Y/N)													
Proposed Action														
Previous Inspecto	or's Name	Owen	Owen Salava Previo					us Assistant's Name						
Next Inspection D	ate	30-Ma	y-2014				Previous	s Inspection Date 26-Aug-2010						
Inspection Cycle	(Default) (months)	21												
Comment														