					Bridg	e Culve	ert Insp	ection						
Bridge File Num	ber	01094	-1 Bridge Culver	t			Form 7	Гуре		CUL1				
Year Built 1959 Bridge or Town Name BALZAC							Lot No.			1				
Bridge or Town	Name	BALZA	(C				Inspec	tor Name		Garry Roberts				
Located Over		TRIBU	ARY TO WEST NOSE CREEK, .1.3, WATERCRS-ST					Inspector Class BR CLS A						
Located On			C1 0.324					ant Name						
Water Body Cl./Year							ant Class							
Navigabil. Cl./Ye								tion Date		26-Jul-2012				
Legal Land Loca		SW SF	C 12 TWP 26 R	GF 2 W5	M			ntry By		Lauren Korte				
				02 2 110				ntry Date		02-Sep-2012				
Longitude, Latitude -114:09:52  Road Authority Alberta Tr			Transportation	(AIT)						Tom Carey				
Contract Main. A		CMA29	·	(,)				Review Date 07-Aug-2012						
						Dept. Reviewer Name Tim Davies								
Clear Roadway/Skew   8.6 / 30 d   AADT/Year   1,430 / 20						Dept. Review Date		06-Sep-2012						
Road Classificat			7 2011 (A) 209-110				Follow	-Up By						
Detour Length (F	km)	6												
Bridge Culvert	Inform	ation												
Number of Culve	erts		1											
Pipe #			Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 [	MAIN		2055	1533		RPP		29		152X51		PIPE ARCH		
Special Features				 }										
Special Features														
					114	ilities (L	ocatod	(at)						
Utility Attachmer	nte				Ot.	iililes (L	-ocalieu	at)						
Telephone	West	ditch					Gas							
			l0 m 1 - wire				Munici	nal	Water	line 100 m Sou	th			
Power West ditch - 40 m, 1 - wire. Others							Problem (Y/N) No							
Remarks							1 100.0	( . , )						
				A	oproac	ch Roac	l / Emb	ankment						
					Last	Now		nation of		tion				
Horizontal Alignment			7	6	Intersection 100m South.									
Vertical Alignme	ent				7	7								
Vertical Alignment Roadway Width (m)		8.600												
Embankment					7	7								
Sideslope (:	:1)		4.0											
(Height of Cov		1.3)												
Guardrail (Y/N)		,	No											
Approach Road	d / Emb	ankme	ent General Rati	ng	7	7								
						Heatra	Enc	1						
Culvert Compo	nont				Last	Upstre: Now		nation of	Condi	tion				
Direction	Hent				W	INOW	West.	iation of	Condi	LIOII				
End Treatment ( Others, None)	(Concre	ete, Ste	el, STEEL		VV		West.							
Headwall					Х	X								
Collar			Х	X										
Wingwalls					Х	X								
(Shape: )														
Cutoff Wall				Х	X									

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	6	Explanation of Condition
Heaving (mm)	0	- '	0	
Invert Above/Below Stream Bed	0			
	0			
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )			_	
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		7	5	
		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			·
Barrel Last Accessible Date	26-Jul-2012			
Special Features				
Special Feature		6	4	1 strut has fallen over. Several others are leaning. Struts are not
(Type : VERT TIMBER STRUTS	)			helping cracked seams.
Special Feature	,			
(Type:)				
Roof		5	6	
Measured Rise (mm)	1500	- 3		
Measured At Ring No.	6			
Sag (mm)	33			
Percent Sag	2			
		0		Onselve de a serve
Sidewall	0400	2	2	Cracked seams.
Measured Span (mm)	2180			
Measured At Ring No.	6			
Deflection (mm)	125			
Percent Deflection	6			
Floor	I	N	N	Silt covered to 0.4m deep. Only U/S end of floor is visible.
Bulge (mm)	200			Only 0/0 end of hoof is visible.
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		2	2	
Total No. of Cracked Rings	5			
Total No. of Rings with Two Cracked Seams	0			Ring 3- North s/w. Cracked seams at R 2, 3, 4, 7, 9,
Min. Remaining Steel Between Cracks (mm)	25			Stagger in roof seam. Not in sidewalls.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Rust and alkali at bolts.
Corrosion By Soil (Y/N)	Yes			South & West.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 2055	, Rise (mm): 1533, Type: RPP)				
Fish Passage Adequacy		5	5					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7	Silt to 0.4m.				
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating		3	2					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		Е		East.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		Х	Х					
Bevel End		5	5	Minor damage to North side.				
Heaving (mm)	50							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	200							
Scour Protection		4	4					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		4	4	Minor scour.				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	4	4					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		7	7	Low wide banks.				
HWM (m below Top of Culvert)	No			No visible HWM.				
Drift (Y/N)	No DECRADING							
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N) No								
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :	NONE)	_	<b>-</b>					
Channel General Rating		7	7					

		Maintenance R	ecommendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTOFF								
REPAIR SEAMS								
OTHER ACTION		Replace Pipe.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	ow) 33.3/2	2.2 Sufficiency Rating (Last (%)	/Now) 51.7/45.4	Est. Repl. Yr 2014	4 Maint. Re	qd. (Y/N)	Yes	
Special 2 Notifications sent or replaced.	to at Tim Davie	s July 27/12. Inspect on 1/2 cycle unti	I repaired Department Comments					
Maintenance Reviewed By			Date		Estimated Tota	I 0		
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name Garry			Previous Assistant's Name					
Next Inspection Date	26-Oct-2015		Previous Inspection Date	Previous Inspection Date 02-Jun-2009				
Inspection Cycle (Default) (months) 39								
Comment								