Bridge Culvert Inspection													
Bridge File Nun	nber	74328 -1	Bridge Culve	rt			Form 7			CUL1			
		1955	•				Lot No.		1				
Bridge or Town Name H.							Inspector Name			Jon Davies			
Located Over		TRIBUTA	ARY TO TON	GUE CRE	EK.		· ·	spector Class BR CLS B					
		2.13.27.5.5, WATERCRS-ST					Assistant Name						
Located On		543:02 C	1 10.039				Assista	int Class					
Water Body Cl./Year						Inspection Date		02-Mar-2013					
Navigabil. Cl./Year							Data Entry By			Lauren Korte			
Legal Land Location		SW/SEC 16 TWD 10 PGE 1 W/5M						Data Entry Date 29-Mar-2013					
Longitude, Latitude		-114:05:	25, 50:36:04				Reviewer Name Garry Roberts						
Road Authority		Alberta Transportation (AIT)					Review Date 17-Mar-2013						
Contract Main. Area		CMA27					Dept. Reviewer Name		Tim Davies				
Clear Roadway	/Skew	7.9 /					Dept. Review Date		08-Apr-2013				
AADT/Year		1,360 / 2011 (A)					Follow-Up By						
Road Classifica	ition	RCU-209	9-110										
Detour Length (7											
Bridge Culvert													
Number of Culv			1			l			I	1			
Pipe #	Barrel	8	Span	Rise (or Dia.)		Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	1	1737	1920		SPE		58		152X51	2.8	ELLIPSE	
Special Feature			1707	1020		01 _				102/101	2.0	TEELII OE	
Special Feature		ment											
Operation of the control	0000												
	i				Uti	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone South ROW.					Gas South ROW			ROW.					
Power	Power North ROW.						Municipal						
Others						Proble	m (Y/N)	No	lo				
Remarks													
						_	d / Embankment						
				Last		Explanation of Condition							
Horizontal Alignment				7	7	Int 150m West. In vertical sag curve.							
Vertical Alignment Roadway Width (m) 8.100				6	6								
Roadway Width (m) 8.1			6.100										
Embankment					7	6	3:1 at road side slopes		slopes				
Sideslope (:1)			2.0										
(Height of Co	ver(m) :	: 5)											
Guardrail (Y/N)			No										
					1								
Approach Roa	d / Emb	bankmen	t General Rat	ing	6	6							
						Upstre	am End						
Culvert Compo	onent				Last	Now		ation of	Condi	tion			
Direction					S		South.						
End Treatment Others, None)	(Concre	ete, Steel	STEEL										
Headwall					Х	Х							
Collar				Х	Х								
Wingwalls			Х	X									
(Shape:)					1								
Cutoff Wall			Х	X									

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		7	7					
Heaving (mm)	150							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	200							
Scour Protection		8	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 250)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Brid	dae Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S							
Barrel Last Accessible Date	02-Mar-2013							
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type :)		<u> </u>						
Roof		5	5	SPE rise at Ring 3 1813mm=107mm or 6% of sag.				
Measured Rise (mm)	1813							
Measured At Ring No.	3			General roof shape of SP barrel is adequate.				
Sag (mm)	107							
Percent Sag	6							
Sidewall		3	3	SPE span at Ring 3 is 1805mm, 68mm or 4% deflection. Sidewall				
Measured Span (mm)	1905			SPE span at Ring 3 is 1805mm. 68mm or 4% deflection. Sidewall rated 3 due to cracks in Ring 11 longitudinal seam in S.P.				
Measured At Ring No.	8							
Deflection (mm)	15							
Percent Deflection	4							
Floor	'	5	N	P.R 5. Up to 500mm ice and water.				
Bulge (mm)	0			1 of to committee and water.				
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams	. 10	4	4	Bolts missing on circumferential seams #3 and 12. Many other bolts				
Separation (mm)	15	4	4	tipped at barrel extension seams. 3 Cracked bolt holes at roof in				
				circumferential seam 8,9, and 10.				
Longitudinal Seams		3	3	84mm steel remaining @ cracked long seam @ ring 11.				
Total No. of Cracked Rings Total No. of Rings with Two	0			1N stagger				
Cracked Seams Min. Remaining Steel	85			1N stagger.				
Between Cracks (mm)	<u></u>							
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							
Coating	I	6	6	Superficial corrosion at bolt holes and below waterline.				
Corrosion By Soil (Y/N)	Yes			-				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG			superficial rust				
Ponding (Y/N)	No							

		Brio	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1737	, Rise (mm): 1920, Type: SPE)				
Fish Passage Adequacy			5					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy			6	Fencing across inverts.				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating			3					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		N		North.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		X	Х					
Wingwalls		X	X					
(Shape:)								
Cutoff Wall		X	X					
Bevel End		5	5					
Heaving (mm)	200							
Invert Above/Below Stream Bed	ABOVE			Bevel end undermined 2m.				
Above/Below (mm)	700							
Scour Protection		4	5					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 350)								
Scour/Erosion			5	8m x 0.7m deep scour hole. Rock lined.				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	4	5					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			7					
Bank Stability			6					
HWM (m below Top of Culvert)				No HWM visible.				
Drift (Y/N) No				(Grass in fence and on bolts in barrel) Nov 13/06				
Channel Bottom Degrading/Aggrading DEGRADING								
Beavers (Y/N) No								
(Fish Compensation Measure 1 : NONE)								
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

		Maintenance F	Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	nments	Target Yea	r Est. Cost	Cat #	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	2014	Consider steel liner if adequate capor replace in 2018.	pacity exists					
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	ow) 33.3/33	.3 Sufficiency Rating (Las (%)	t/Now) 45.6/49.9	Est. Repl. Yr	2018 Maint. F	Reqd. (Y/N)	Yes	
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Estimated To	tal 0		
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Rex Davidson		Previous Assistant's Name					
Next Inspection Date	02-Jun-2016		Previous Inspection Date	Previous Inspection Date 16-Dec-2009				
Inspection Cycle (Default) (months)	39							
Comment								