					Brida	je Culve	ert Insp	ection						
Bridge File Number 02163 -1 Bridge Culvert				- Triag	o Garve	Form 1			CUL1					
Year Built 1978						Lot No			1					
Bridge or Town	Name						spector Name Jon Davies							
Located Over			OOT CREEK,	2.13.14,	WATE	RCRS-	· ·	tor Class		BR CLS B				
		ST						nt Name						
Located On		1:14 L1	11.740;1:14 R	1 11.740			Assistant Class							
Water Body Cl.	./Year						Inspection Date			16-Feb-2012				
Navigabil. Cl./Y							Data Entry By			Erin Roberts				
Legal Land Loc	cation	NW SEC	C 12 TWP 24 R	12 TWP 24 RGE 23 W4M				Data Entry Date		18-Mar-2012				
Road Authority Alberta Tr		37, 51:02:16					Reviewer Name		Garry Roberts					
Contract Main. Area CMA30		Transportation (AIT)				Review Date		27-Feb-2012						
		-				Dept. Reviewer Name								
·						Dept. Review Date		22-Mar-2012						
AADT/Year		7,520 / 2	· ,				Follow-Up By							
	Road Classification RAD-41		12.4-120											
Detour Length	` '	1												
Bridge Culver														
Number of Culv			1			1_		I						
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		5374	2908		RPE		64.6		152X51	4.0	ELLIPSE		
Special Feature			VERT TIMBER		SFAR			0 1.0		102/101	<u> </u>	122 02		
Special Feature			VERT THUBER	Ontore	, <u>_</u> ,									
Openial Feature	00 001111	morn												
					Ut	ilities (L	ocated	at)						
Utility Attachme	ents													
Telephone @ South R/W						Gas								
Power		30.0 m North of c.l 3 wire					Munici	pal						
Others Fibre optics North RW							Proble	m (Y/N)	No					
Remarks														
				Ap				/ Embankment						
					AT END OF CURVE.									
Horizontal Align					6	6	Hill to West.							
Vertical Alignment  Roadway Width (m) 26.000				0	0									
Roadway Widti	11 (111)		26.000											
Embankment					6	6								
Sideslope (	_:1)		5.0											
(Height of Co	ver(m)	<b>: 3</b> )												
Guardrail (Y/N)	)		Yes											
Ammer and D	-d/F	h a m !	1 Con! D :	I.a. a.										
Approach Roa	ad / Emi	bankmen	it General Rat	ing	6	6								
						Upstre	am End							
Culvert Comp	onent				Last			ation of C	ondi	tion				
Direction		N		NORTH END										
End Treatment	(Concre	ete, Steel	I, CONCRETE											
Others, None) Headwall	Others, None)		7	7	Narrow	Narrow cracks								
										D.C.				
Collar			5	5	CONCRETE STARTING TO BREAK AT BEVEL ENDS. COLLAR OVERGROWN AND MOSTLY SUBMERGED					DS. SED				
Wingwalls			X	X										
(Shape: )														
Cutoff Wall				N	N									

			Unctre	am End				
Culvert Component				Explanation of Condition				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End	0	6	6					
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm) 1200			Τ_					
Scour Protection		6	6	INGROWN				
(Type : <b>NATURAL</b> )								
(Avg. Rock Size(mm) : )								
Scour/Erosion		6	6					
Beavers (Y/N)	No							
Upstream End General Rating		6	5					
		Brid	dae Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S							
Barrel Last Accessible Date	16-Feb-2012		,					
Special Features								
Special Feature		N	N	2 ROWS STRUTS.				
(Type : VERT TIMBER STRUTS	)			Struts stable. @ least 400mm of sag @ South 1/2 @ struts-not able				
Special Feature	<u> </u>			to see enough to properly rate.				
(Type:)								
Roof		N	N	No rise or span possible. Ice level within 700mm of roof at worst sag.				
Measured Rise (mm)		IN	IN	140 fise of spair possible. Ice level within 700ffill of 100f at worst sag.				
Measured At Ring No.	400							
Sag (mm)	400							
Percent Sag	14		1					
Sidewall	I	N	N	(2.8% SIDEWALL, 13.8% ROOF). 11-Feb-2003				
Measured Span (mm)								
Measured At Ring No.								
Deflection (mm)	150							
Percent Deflection	3							
Floor		N	N	Ice throughout.				
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		N	N					
Separation (mm)	0			1				
Longitudinal Seams		N	N	Numerous cracks at upper sidewall seams. Estimate less than				
Total No. of Cracked Rings	0	14	1 1 1	100mm remaining steel at South West seam location.				
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	0							
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No							
Coating		N	N	(Surface corrosion throughout pipe along sides and roof) 11- Feb-				
	Yes	IN	IN	2003				
Corrosion By Soil (Y/N)	162							
Corrosion By Water (Y/N)	NEC							
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	Yes							

02163 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm	): 5374	, Rise (mm): 2908, Type: RPE)						
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		6	4	Grass at top of struts possibly indicating inadequate hydraulic						
Icing (Y/N)	Yes			capacity due to silt and struts.						
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		3	3	G.R. CARRIED FORWARD						
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		S		SOUTH END						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		7	7							
Collar		6	6							
Wingwalls		Х	Х							
(Shape: )										
Cutoff Wall			N	buried						
Bevel End		6	6							
Heaving (mm)										
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 1500										
Scour Protection			6							
(Type:)										
(Avg. Rock Size(mm):)		1								
Scour/Erosion			6							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	6	6							
		s	tructur	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)			1							
Alignment			5	45 DEG. BENDS @ BOTH ENDS.						
Bank Stability			7							
HWM (m below Top of Culvert) 0.0				Runs full. Grass at top of struts.						
Drift (Y/N) No										
Channel Bottom AGGRADING Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 : NONE)										
Channel General Rating		5	5							

			Maintenand	e Recommen	dations					
Inspector Recommendations	Year	Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	}									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION	2012	Dewater an	d level 2.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 33.3/3	Sufficiency Rating (%)		ast/Now)	49.4/42.1	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		1	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Roberts	Garry Roberts Previous								
Next Inspection Date	16-Nov-2013			Previous	Inspection Date 16-Jul-2010					
Inspection Cycle (Default) (months)	21									
Comment										