Bridge Culvert Inspection														
Bridge File Number 02162 -1 Bridge Culvert			rt		<u>e cruitr</u>				CUL1					
Year Built 1978						Lot No.			1					
Bridge or Town	Name	STRATH	MORE				Inspector Name			Jon Davies				
Located Over		TRIBUTA	ARY TO CRO	WFOOT	CREEK	Κ,	Inspector Class			BR CLS B				
), WATERCR				Assistant Name							
Located On		1:14 L1 1	0.060;1:14 R	1 10.060			Assista	nt Class						
Water Body CI./							Inspection Date			16-Feb-2012				
Navigabil. Cl./Ye							Data Entry By			Erin Roberts				
Legal Land Loca			14 TWP 24 RGE 23 W4M				Data Entry Date			18-Mar-2012				
								Reviewer Name		Garry Roberts				
								Review Date		27-Feb-2012				
Contract Main. Area CMA30							Dept. Reviewer Name			Tim Davies				
Clear Roadway/Skew 25 /							Dept. Review Date		22-Mar-2012					
								Follow-Up By						
Road Classifica		RAD-412	2.4-120					-						
Detour Length (,	1												
Bridge Culvert														
	erts Barrel		Span	Rise (or		Туре		Length		Corr. Profile	PI./Slab	Shape		
Pipe #	Darrei	3	pan	Rise (or	Dia.)	туре		Length		Con. Prome	Thickness	Shape		
1	MAIN	5	374	2908		RPE		64.6		152X51	4.0	ELLIPSE		
Special Feature	s													
Special Feature	s Comi	ment												
								_						
					Uti	ilities (L	ocated	at)						
Utility Attachme	. · · ·						-		1					
Telephone		NROW					Gas							
Power		FROM C.L. NORTH & SOUTH OAD 23m E OF CULVERT C.L.					Municip							
Others	Fibre optics North RW						Probler	n (Y/N)	No					
Remarks		<u>op</u>							I					
				A	pproa	ch Road	d / Emba	ankment						
				Last	Now		Explanation of Condition							
Horizontal Alignment					7	7	INTERSECTION 200 m WEST							
Vertical Alignment					6	6	On grade hills to East & West.							
Roadway Width (m)		25.000												
Embankment					7	7								
Sideslope (:1)		5.0											
(Height of Cov	/er(m) :	1.8)												
Guardrail (Y/N)			Yes			Collision damage to SW guardrail.								
Approach Road	d / Eml	bankment	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	nent				Last			Explanation of Condition						
Direction				N		NORTH END.								
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE											
Headwall					6	6	CRACKS ALONG TOP & MOWER DAMAGE @ CROWN.							
Collar					6	6	SPALL AT LOWER NW CORNER - MINOR.							
Wingwalls					X	X								
(Shape :)														
Cutoff Wall			N	N	Submerged									
						Page								

Alberta Transportation

	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Scour Protection			7	INGROWN					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating			6						
		Brid	lge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)): 5374	, Rise (mm): 2908, Type: RPE)					
Barrel Last Accessible Date	16-Feb-2012								
Special Features									
Special Feature				Grout holes at roof R1 to R8.					
(Type :)									
Special Feature									
(Туре :)									
Roof		N	3	Roof sag measured from top of tab on chord to roof-47mm @ R10.					
Measured Rise (mm)				Estimate. U/S to ring 8 less than 5%. Ring 9 to D/S end up to 10%					
Measured At Ring No.				sag.					
Sag (mm) 290									
Percent Sag	10								
Sidewall		N	3	POOR JOINT @ OLD PIPE (SEAM).					
Measured Span (mm)	5537			R9 @ West upper sidewall seam cusping in 100 mm.					
Measured At Ring No.	10								
Deflection (mm)	183								
Percent Deflection	3								
Floor		N	N	Silt and ice up to 1600mm.					
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	5						
Separation (mm)	20								
Longitudinal Seams		N	3	BOTTOM SEAMS NOT SEEN. 3 BOLT HOLES CRACKED @ RING					
Total No. of Cracked Rings	1			#13 West SIDE.					
Total No. of Rings with Two Cracked Seams	0			80mm REMAINING STEEL-200mm BELOW LONGITUDINAL SEA					
Min. Remaining Steel 0 Between Cracks (mm)									
Proper Lap (Y/N) No				1					
Longitudinal Stagger (Y/N) No									
Coating		N	6	ROOF SEAMS HAVE ALKALINE STAINS.					
Corrosion By Soil (Y/N)	Yes			Minor corrosion at waterline.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 5374	, Rise (mm): 2908, Type: RPE)					
Fish Passage Adequacy		6	6						
Baffle		N	N						
(Type:)									
Waterway Adequacy		4	4						
Icing (Y/N)	Yes			Silt avg 1.4m deep					
Silting (Y/N)	Yes								
Drift (Y/N) No				1					
Barrel General Rating			3						
	Downstream End								
Culvert Component			Now	Explanation of Condition					
Direction				SOUTH END.					
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, CONCRETE								
Headwall									
Collar			7						
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		N	N	Submerged					
Bevel End		6	6	Only to 2/3 viewed due to silt and ice.					
Heaving (mm)	0								
Invert Above/Below Stream Bed BELOW									
Above/Below (mm) 1000									
Scour Protection	1	7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 600)				-					
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratir	ng	6	6						
				re Usage					
Channel (II/S and D/S)		Last	Now	Explanation of Condition					
Channel (U/S and D/S) Alignment			7	FARMERS ROAD D/S CAUSES PONDING 1/2 full with ice WITH 2- 900 mm CULVERTS.					
Bank Stability			8						
HWM (m below Top of Culvert) 0.8				No visable HWM					
Drift (Y/N)	No								
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) No				1					
(Fish Compensation Measure 1 :	1								
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			1					
Channel General Rating			7						

Maintenance Recommendations										
Inspector Recommendations		Year	Inspector Comments		Department Comme	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		2012	Replace 4 T.T guardrail post at SW co	orner						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow)	33.3/33.	.3 Sufficiency Rating (Last/N (%)	ow) 4	4.4/44.3 Est. Repl. Yr 2016		2016	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection				Department Comments						
Maintenance Reviewed By					Date	Estimated Total 0				
Proposed Long-Term Strategy							, i			
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry F	Carry Roberts Previous A			Assistant's Name					
Next Inspection Date	16-Nov	16-Nov-2013			Previous Inspection Date 17-Aug-2010					
Inspection Cycle (Default) (months) 21										
Comment										