Bridge Culvert Inspection														
Bridge File Number 70869 -1 Bridge Culvert			rt	Form Type			CUL1							
Year Built 1998 Bridge or Town Name STIPLING							Lot No.			4				
Bridge or Town	Name	STIRLIN	G				Inspect	or Name		Jason Rusu				
Located Over		ETZIKON	I COULEE, 1	1.9, WAT	ERCR	S-ST	Inspect	or Class		BR CLS A				
Located On		4:06 R1 (0.981;4:06 L1	0.978			Assista	nt Name						
Water Body Cl.	/Year						Assistant Class							
Navigabil. Cl./Y	ear						Inspection Date		23-Mar-2013					
Legal Land Loc	ation	SW SEC	4 TWP 7 RG	E 19 W4N	Л		Data Entry By			Lauren Korte				
Longitude, Latit	ude	-112:31:5	57, 49:31:41		Data Entry Date		11-Apr-2013							
Road AuthorityAlberta TraContract Main. AreaCMA25			ransportation		Reviewer Name		Garry Roberts							
Contract Main. Area CMA25					Review Date		07-Apr-2013							
Clear Roadway/Skew 32.8 / 27			deg. (RHF)		Dept. Reviewer Name		Tim Davies							
AADT/Year 3,990 / 20			012 (A)		Dept. Review Date		22-Apr-2013							
Road Classifica	ation	RAU-213	3-130		Follow-Up By									
Detour Length ((km)	1												
Bridge Culvert Information														
Number of Culv	/erts	1												
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		3300		MP		142		125X26	3.5	ROUND		
Special Feature	es	S	STORM WATE	R DRAIN	1									
Special Feature	es Comr	ment												
					+;	litios (l	ocated	at)						
Litility Attachme	onte				Οl	innes (i	-ocaleu	atj						
Telephone	Fast F	2011/					Gas							
Power	West	ROW/				Municipal								
Others	11031						Problem (Y/N) No							
Pemarke														
Romano				A	oproad	ch Road	d / Emba	nkment						
					Last	Now	Explan	ation of	Condi	tion				
Horizontal Alignment			8	8	24.8m Hwy 4 lanes & East 8m service road over pipe.									
Vertical Alignment				8	8	Located	d 1km No	orth of H	Hwy 61 and Ste	erling.				
Roadway Width (m)		32.800												
Embankment					8	8								
Sideslope (:1)		4.0			1								
(Height of Co	 ver(m) :	: 1.7)			1		1							
Guardrail (Y/N)		/	Yes				East guardrail is on service road.							
Approach Roa	d / Emb	bankmen	t General Rat	ing	8	8								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
Direction			W		West.									
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE											
Headwall					8	8								
Collar	Collar			8	8									
Wingwalls					X	Х	1							
(Shape:)							1							
Cutoff Wall					X	X								

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		N	N	Buried.						
Heaving (mm)	0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 800										
Scour Protection		8	8							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Upstream End General Rating		8	8							
		Brid	lae Cu	vert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)):	, Rise (mm): 3300, Type: MP)						
Barrel Last Accessible Date	23-Mar-2013			(400mm localized distortion @ roof.						
				Under West shoulder of NBL.) Distortions @ roof appear the same.						
Special Features										
Special Feature		N	7	-						
(Type : STORM WATER DRAI	N)		-	-						
Special Feature										
(Туре :)										
Roof		N	4	Roof sag is not below main travel lanes of Hwy 4. This is an as built						
Measured Rise (mm)				deflection & not caused by traffic loads.						
Measured At Ring No.				3220 span @ roof damaged area 12.1%. Local roof deflection.						
Sag (mm)	400			Stimate, 1.5m thick ice throughout.						
Percent Sag	12									
Sidewall		N	8	Inward sidewall deflection.						
Measured Span (mm)	3250			0 1/2 length- middle of nine						
Measured At Ring No.										
Deflection (mm)	80									
Percent Deflection	0									
Floor		N	N							
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)										
Circumferential Seams		N	8							
Separation (mm) 25			-							
			X							
Total No. of Cracked Rings										
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Coating		N	7							
Corrosion By Soil (Y/N)	No			Unable to confirm.						
Corrosion By Water (Y/N)	Yes									
Camber POS/7EPO/NEC	ZERO									
Ponding (Y/N)	No									

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 3300, Type: MP)					
Fish Passage Adequacy		7	7						
Baffle		X	X						
(Туре :)									
Waterway Adequacy			7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		3	4						
	l.	D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	Direction			East.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	Х						
Wingwalls		X	X						
(Shape :)			1						
Cutoff Wall		X	X						
Bevel End		8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			_					
Above/Below (mm)	800		1						
Scour Protection		8	8						
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion			8						
Beavers (Y/N)	eavers (Y/N) No								
Downstream End General Ratin	ng	8	8						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	Curves at both ends.					
Bank Stability		6	6						
HWM (m below Top of Culvert)				No HWM visible.					
Drift (Y/N) No									
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comr	ments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	33.3/44.4	4 Sufficiency Rating (Last/N (%)	ow) 5	57.0/61.9 Est. Repl. Yr 2028		2028	Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection		Department Comments										
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Garry F	Roberts		Assistant's Name								
Next Inspection Date 23-D		23-Dec-2014			nspection Date							
Inspection Cycle (Default) (months) 21												
Comment												