						Bride	o Cube	ort Jaco	oction —					
Bridge File Nive	nher	70110	1 Bridge C	`ulvort		<u> </u>	e Guive	Form Type		CUL1				
			9119 -1 Bridge Culvert											
Year Built 1979 Bridge or Town Name VIKING								Lot No.			3			
					Inspector Name			Jason Saly						
Located Over	ANIMAL, OVER SP				Inspector Class		BR CLS A	BR CLS A						
Located On		36:18 C	1 25.965					Assistant Name						
Water Body Cl.								Assistant Class						
Navigabil. Cl./Y								Inspection Date		09-Jan-2013	09-Jan-2013			
Legal Land Location SW SEC 2			C 24 TWP 50 RGE 13 W4M					Data E	ntry By	Marcia Chave	Marcia Chavez			
Longitude, Latitude -111:47:04			04, 53:19:	04, 53:19:36				Data Entry Date		12-Feb-2013	12-Feb-2013			
Road Authority Alberta Tr			Transportation (AIT)					Review	ver Name	John O'Brien	John O'Brien			
Contract Main. Area CMA14								Review Date		19-Jan-2013	19-Jan-2013			
Clear Roadway	/Skew	12 /						Dept. Reviewer Name		ame Darron Ahlste	Darron Ahlstedt			
AADT/Year		1,150 / 2	2011 (A)					Dept. Review Date		e 13-Feb-2013				
Road Classifica	ation	RAU-20	9-110					Follow	-Uр Ву					
Detour Length	(km)	3												
Bridge Culvert	Inform	ation												
Number of Culv	/erts		1											
Pipe #	Barrel		Span	Ri	se (or [Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-	-	21	34		MP		31.7	75X25	2.8	ROUND		
Special Feature	es													
Special Feature	es Comr	ment												
						Ро	sting l	nformat	ion					
Required Vert.	Clearan	ce Postir	ng (m)											
Posted Vertical	Cleara	nce (Y/N))	No										
Posted: Lane	EB	On B	ridge (m)		In Adva	ance (Y/N)	L	ane WB	On Bridge (m)	In Adva	nce (Y/N)		
Remarks	Not re	quired -	cattlepass											
						Uti	lities (L	ocated	at)					
Utility Attachme	ents													
Telephone	West	r/w.						Gas						
Power	2 wire	OH 30m	East of c/l, E fenceline.					Munici	pal					
Others								Problem (Y/N) No						
Remarks														
					Ap	proac	ch Roa	d / Emb	ankment					
						Last	Now	Explai	Explanation of Condition					
Horizontal Aligr	nment					8	8		Sag curve with no passing on crests to South.					
Vertical Alignm	ent					6	6	Sag cu	irve with no	passing on crests	to South.			
Roadway Width	n (m)		12.000				Trans.	Trans. crack in ACP S of pipe.						
Embankment					7	7								
Sideslope (_:1)		3.0											
(Height of Co		1)												
Guardrail (Y/N)		Yes				2 split posts @ SW of pipe. (1 broken post & 1 split post in W rail over pipe (photo). 09Dec2010).								
Approach Roa	d / Emb	oankmen	nt Genera	I Rating	J	6	6	(1 DIO	ιστι μυσι α		i over hihe (hijo	10). 03D602010)		
							Upstre	am End						
Culvert Component					Last	Now		nation of C	ondition					
Direction					W									
End Treatment (Concrete, Steel, Others, None)		, STEEL												
Headwall						Х	Х							
Collar						Х	Х							

79119 -1 Bridge Culvert

			Heater	
Outroot Common on the				eam End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape:)		V	V	
Cutoff Wall		X	X	
Bevel End		6	N	(Bevel buckled about 6 corrugations on North side. 30/May/2006).
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection	1	7	N	(Overgrown with vegetation. 09Dec2010) - Snow covered but no sign
(Type : RIP RAP)				of problem.
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	Х	
Beavers (Y/N)	No			
Upstream End General Rating		6	N	Previous GR was 6 from 09Dec2010 based on bevel rating.
		_ D.::	dae Cr	Nyort Barrol
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			, Rise (mm): 2134, Type: MP)
Barrel Last Accessible Date	09-Jan-2013	pan (mii	1).	, Kise (IIIII). 2134, Type. Mr)
Dairei Last Accessible Date	09-Jan-2013			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	5	Upward cusping of barrel roof.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	41			(Sag 1.9%, estimated. 30/May/2006)
Percent Sag	2			(549 1.575, 5541114154: 55711437/2555)
Sidewall		6	6	Construction damage on R5 N wall 80mm x 40mm - no problem.
Measured Span (mm) 2192				Span at W end=2078=56mm Span at midpipe=2192=58mm=2.7%
Measured At Ring No.				Span at E end=2082=52mm
Deflection (mm) 58				2.7%
Percent Deflection 3				
Floor		N	N	Covered with 75mm concrete floor & dirt.
Bulge (mm)	0			1
Measured At Ring No.				
Abrasion (Y/N)	No			(30May2006).
Circumferential Seams		5	5	Poor fit/alignment @ East section.
Separation (mm)	85			
Longitudinal Seams		X	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	\	8	8	_
Corrosion By Soil (Y/N)	No			_
Corrosion By Water (Y/N)	No			2 of 5

		Bri	dge Cu	lvert Barrel
Culvert Component L				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	n):	, Rise (mm): 2134, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	Х	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	N	Overgrown with vegetation. Snow covered but no sign of problem.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	X	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	N	GR was 6 from 09Dec2010.
		5		re Usage
		Last	Now	Explanation of Condition
Grade Separation		I		
Road Alignment		7	7	Cattle paths leading to both ends.
Roadway Surface		5	5	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		Х	X	
Туре	None			
Lighting		Х	X	
Barrel Leakage (Y/N)	No			

Structure Usage									
	L		Now	Explanation of Condition					
Drainage			8	900mm CSP"s to allow ditch drainage to pass.					
Structure In Use (Y/N) No				Could not confirm; fence in working order.					
Grade Separation General Rating			7						

		Maintenance Ro	ecommen	dations					
Inspector Recommendations	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	2013	Replace split/broken post @ W side	(4).						
OTHER ACTION	2013	Seal cracks in ACP S of pipe.							
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 55.6/55	.6 Sufficiency Rating (Last/	Now)	70.5/68.6	Est. Repl. Yr	2034	Maint. Re	qd. (Y/N)	Yes
Special Monitor upward cur Comments for Next Inspection	sping of barrel ro	of.		Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)	Υ								
Proposed Action	2008.01.18 Re	view in two years time for continued u	vnlee & Associates						
Previous Inspector's Name	Dave Lam		Assistant's Name						
Next Inspection Date	09-Oct-2014		Previous	s Inspection Date 09-Dec-2010					
Inspection Cycle (Default) (months)	21								
Comment									