Bridge Culvert Inspection													
Road Authority Alberta Transportation (AlT Contract Main. Area CMA04 Clear Roadway/Skew 8.6 / 30 deg. (RHF) AADT/Year 100 / 2012 (A) Road Classification RLU-208-100 Detour Length (km) 13 Bridge Culvert Information Number of Culverts 2 Pipe # Barrel Span Ris 1 MAIN - 160 Special Features Special Features Comment  Utility Attachments Telephone 1N south r/w Power 2 - wire o/h North r/w Others Remarks  Horizontal Alignment Roadway Width (m) 8.600 Embankment Sideslope (_:1) 5.0 (Height of Cover(m) : 2) Guardrail (Y/N) No  Approach Road / Embankment General Rating  Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, STEEL Others, None)		rt			Form Type		CULM						
						Lot No.				4			
Bridge or Town Name HAWK HILLS						Inspec	tor Name	!	Brian Pientsch				
				TERCRS	-NI		Inspector Class		BR CLS A				
Located On		692:02	C1 10.409				Assistant Name		Clem Guenette	e			
Water Body Cl.	/Year						Assistant Class		BR CLS B				
							Inspec	tion Date		19-Mar-2013			
Legal Land Location SE SEC 17 TWP 95 RGE 21 W5N				5M		Data E	ntry By		Lisa Fairhurst				
						Data Entry Date 08-Apr-2013							
					Reviewer Name Eric Carcoux								
Contract Main.	Area	CMA04					Review	Review Date 08-Apr-2013					
Clear Roadway	//Skew	8.6 / 30	deg. (RHF)				Dept. F	Reviewer	Name				
AADT/Year		100 / 20	012 (A)				Dept. F	Review Da	ate				
Road Classifica	ation	RLU-20	08-100				Follow-	-Uр Ву					
Detour Length	(km)	13											
Bridge Culvert Information													
Number of Cul	verts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1600		MP		38		125X26	2.8	ROUND	
2	MAIN		-	1600		MP		38		125X26	2.8	ROUND	
Special Feature	es												
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents							,					
					Gas								
							Munici	oal					
							m (Y/N)	No					
				Aj	oproac	ch Road	l / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Alig	nment				7	7	Pipe is	Pipe is 200m E. of residence entrances on bth sides of road. 200m W. of field					
					8	8	entrance on N. side of road.						
Roadway Widtl	n (m)		8.600										
Embankment					8	8							
Sideslope (	_:1)		5.0										
(Height of Co	ver(m) :	<b>2</b> )											
Guardrail (Y/N)	)		No										
Approach Roa	d / Eml	bankme	nt General Rat	ting	7	7							
						Unstre	am End						
Culvert Comp	onent				Last			ation of	Condi	tion			
		e: Prima	ary Span)			<u> </u>	•						
			N		West b	arrel							
End Treatment (Concrete, Steel, STEEL													
Headwall					Х	Х							
Collar	Collar				Х	Х							
Wingwalls	Wingwalls			Х	X								
(Shape: )	Shape : )												

			linstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)		1.1011	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Cutoff Wall	,	Х	Х	
Bevel End		7	N	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locate	tion Code: MAIN. Spa			, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	19-Mar-2013			1309mm ice to crown
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	7	(June 04/03)
Measured Rise (mm)	1585			(Julie 04/05)
Measured At Ring No.				
Sag (mm)	15			
Percent Sag	1		_	
Sidewall	ı	N	7	
Measured Span (mm)	1606			
Measured At Ring No.				
Deflection (mm)	6			
Percent Deflection	1			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	
Separation (mm)	60			
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		5	5	Superficial rust above waterline. Scaling rust from 3:00 to 9:00
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm	):	, Rise (mm): 1600, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		S		west barrel
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		6	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		7	N	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	800			
Scour Protection		7	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1		
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	GR carried forward
				am End
Culvert Component	_ `	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1		T
Direction		N		east barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape: )				
utoff Wall		X	X	

			Heetus	on End		
Culvert Component		Last		Explanation of Condition		
(Pipe # : 2, Span Type: Secondary Span)			INOW	Explanation of Condition		
Bevel End	ary opan,	7	N	Snow covered		
Heaving (mm) 0		/	IN	Show covered		
Invert Above/Below Stream Bed	BELOW					
Above/Below (mm) Scour Protection	300	7	N	Snow covered		
			N	Snow covered		
(Type: RIP RAP)						
(Avg. Rock Size(mm) : <b>300</b> ) Scour/Erosion			N	Snow covered		
SCOUI/E10SIOI1		7	IN IN	Show covered		
Beavers (Y/N)	No					
Upstream End General Rating	<u> </u>	7	7	GR carried forward		
		Brid	dae Cu	Ivert Barrel		
Culvert Component				Explanation of Condition		
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,			, Rise (mm): 1600, Type: MP)		
Barrel Last Accessible Date	19-Mar-2013			1305mm ice to crown		
Special Features						
Special Feature						
(Type:)						
Special Feature						
(Type:)						
Roof		N	7	Heavy equipment has creased roof at		
Measured Rise (mm)	1593			3.0 m to 5.0 m at first seam still functonal		
Measured At Ring No.				(04-Jun-03)		
Sag (mm)	7					
Percent Sag	-					
Sidewall		N	7			
Measured Span (mm)	1602					
Measured At Ring No.				@ centre line		
Deflection (mm)	2					
Percent Deflection	_					
Floor		N	N	Ice on floor		
Bulge (mm)	0			1		
Measured At Ring No.	-					
Abrasion (Y/N)	No					
Circumferential Seams		N	7			
Separation (mm)	60					
Longitudinal Seams		Х	Х			
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			5	Superficial rust above waterline, scaling rust from 3:00 to 9:00		
Corrosion By Soil (Y/N)	No	5		2.7 2.2. 2.2. 2.2. 2.2. 2.2. 2.2. 2.2.		
Corrosion By Water (Y/N)	Yes					
Camber POS/ZERO/NEG	ZERO					

		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1600, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	7	
		D	own <u>str</u>	ream End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		s		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
		Х	Х	
Bevel End		7	N	(Rock goes beyond standard limits. 20 Oct 2009)
Heaving (mm)	0			Snow covered
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	N	Snow covered
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No		_	
Downstream End General Ratio	ng	7	7	GR carried forward
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		I	T	
Alignment		8	8	
Bank Stability			8	
HWM (m below Top of Culvert)	0.3			
Drift (Y/N)	No			Drift line in Riprap 20 Oct 2009)
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

			Maintananaa Basama	andations					
Inanceter Decemmendations	Year	Inspector Commer	Maintenance Recomm	Department Com	monto		Target Year	Est. Cost	Cot t
Inspector Recommendations	rear	inspector Commer	11.5	Department Com	imenis		rarget rear	ESI. COSI	Cat #
SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP									+
REMOVE DRIFT ACCUMULATION									+
INSTALL CONCRETE/STEEL LINING									+
INSTALL STRUTS									+
INSTALL CONCRETE COLLAR/CUTO	)FF								+
REPAIR SEAMS	71 1								+
OTHER ACTION									+
OTHER ACTION									+
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 44.4/77	.8 Sufficier (%)	ncy Rating (Last/Now)	66.1/81.6	Est. Repl. Yr	2029	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Eric Carcoux		Previ	ous Assistant's Name					
Next Inspection Date	19-Jun-2016		Previ	ous Inspection Date	20-Oct-2009				
Inspection Cycle (Default) (months)	39								
Comment									