Bridge Culvert Inspection													
Bridge File Num	ber 13	r 13340 -1 Bridge Culvert					Form Type		CULM				
Year Built	199	1990					Lot No.		4				
Bridge or Town	Name DELIA						Inspector Name		Owen Salava				
Located Over TRIBUTARY TO WOLF CREEK, WATERCRS-ST				, 17.1.	1,	Inspector Class		BR CLS A					
Located On 9:08 C1 27.088						Assistant Name							
Water Body CL/Year						Assistant Class							
Navigabil CL/Vear						Inspection Date		02-Nov-2011					
Legal Land Location SE SEC 15 TWP 31 RGE 17 W4					4M		Data Entry By						
Longitude, Latitude -112:19:49, 51:38:56						Data E	ntry Date		25-Nov-2011				
Road Authority Alberta Transportation (AIT)				(AIT)			Reviewer Ivaine		John O'Brien				
Contract Main. Area CMA21				<u> </u>			Review	Date		Androw Smillos			
Clear Roadway/Skew 12.1 /							Dept. Reviewer Name		Andrew Smikles				
AADT/Year	2,4	00 / 2	2010 (A)				Dept. Review Date		28-Nov-2011				
Road Classificat	tion RA	U-211	1.8-110				Follow-Up By						
Detour Length (	km) 11												
Bridge Culvert	Informatio	on											
Number of Culv	erts	2	2										
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-		2400		MP		69		125X26	2.8	ROUND	
2	MAIN	-		2400		MP		69		125X26	2.8	ROUND	
Special Feature	s												
Special Feature	s Commen	nt											
					1 14	litico /l	o o o t o d	ot)					
Litility Attachme	nte				01	inties (L	-ocaleu	al)					
Telephone South ditch							Gas						
Power	wer 3 wire OH North @ fenceline.						Municir	bal					
Others						Probler	n (Y/N)	Yes					
Remarks Cable exposed & laving in South ditch ac						s both in	lets.						
Appro						ch Road	d / Emba	ankment					
						Now	Explan	ation of C	ondi	tion			
Horizontal Align	ment				7	7	Several intersections. Railroad 400m East. At bottom of sag curve.						
Vertical Alignme	ent				6	6	Limited	signi dista	ance.				
Roadway Width	(m)		12.100										
Embankment					6	6	Drops t	Drops to 3:1 over pipe.					
Sideslope (	:1)		5.0										
(Height of Cov	/er(m) : <b>4.4</b>	l)											
Guardrail (Y/N)			No										
Approach Road	d / Emban	kmen	t General Rat	ing	6	6							
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explan	ation of C	ondi	tion			
(Pipe # : 1, Span Type: Primary Span)													
Direction				S		East pipe.							
End Treatment (Concrete, Steel, STEEL Others, None)				_									
Headwall					Х	Х							
Collar					X	Х							
Wingwalls				Х	X								
(Shape: )													

			Upstre	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		6	6	Minor bend in East side of bevel.
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	Fieldstone.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
			Ŭ	
Output On		Brid	dge Cu	Vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	ban (mm	ı):	, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	02-Nov-2011			East pipe.
Special Features			-	
Special Feature				
(Type:)				-
Special Feature				
(Type:)				
Roof		5	4	Original pipe removed and new longer pipe installed. Extensions rest
Measured Rise (mm)	2200			on a less supportive bed causing distress to couplers and slope.
Measured At Ring No.	2			8.3%
Sag (mm)	200			
Percent Sag	8			
Sidewall		5	4	
Measured Span (mm)	2560			
Measured At Ring No.	2			
Deflection (mm)	160			6.7%
Percent Deflection	7			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Packed with oakum. Couplers still intact.
Separation (mm)	82			At 1st seam D/S end.
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	5	Minor superficial corrosion on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			):	, Rise (mm): 2400, Type: MP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	Ponding (Y/N) No									
Fish Passage Adequacy		X	X							
Baffle			Х							
(Type:)			1							
Waterway Adequacy		8	8							
	No									
Silting (Y/N)	No									
Drift (Y/N)	No		1							
Barrel General Rating		5	4							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	v Span)									
Direction	0	N		East pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall			X							
Collar			X							
Wingwalls			X							
(Shape : )										
Cutoff Wall			X							
Bevel End	1	6	6	Minor dents from riprap installation, no problem.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	350		1							
Scour Protection		7	7							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : <b>300</b> )			1							
Scour/Erosion		7	7							
Beavers (Y/N)	No		1							
Downstream End General Ratin	ng	6	6							
			Upstre	am End						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction				West pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	X							
Wingwalls		Х	X							
(Shape : )										
Cutoff Wall		Х	Х							

	1		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)		_	
Bevel End		7	7	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
	1			
Beavers (Y/N)	No			
Unstream End General Rating		7	7	
			·	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (	mm):	, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	02-Nov-2011			West pipe.
Special Factures				
Special Features				
				-
				-
(Type:)				
Roof		5	4	Pipe in distress on extensions due to softer bed with differential at circumferential seam between original and NW bed
Measured Rise (mm)	2210			
Measured At Ring No.	6			7.9%
Sag (mm)	190			-
Percent Sag	8			
Sidewall	I	5	4	Minor dents in West sidewall.
Measured Span (mm)	2600			_
Measured At Ring No.	6			_
Deflection (mm)	200			8.3%
Percent Deflection	8			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Packed with oakum.
Separation (mm)	74			Coupier still intact.
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		6	6	Minor superficial corrosion on floor.
Corrosion By Soil (Y/N)	No			1
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			
	2-110			

Bridge Inspection & Maintenance System (Web 2005)

13340 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2400, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		Х	X						
Baffle		Х	Х						
(Туре : )									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No		-						
Barrel General Rating			4						
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction		N		West pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar			Х						
Wingwalls			Х						
(Shape : )									
Cutoff Wall		Х	X						
Bevel End		7	7						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 300			1						
Scour Protection		8	8						
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : <b>300</b> )			1						
Scour/Erosion		N	8						
Beavers (Y/N)	No								
Downstream End General Ration	ng	7	7						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			8						
Bank Stability		8	8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading				Unknown.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)		1						
Channel General Rating		8	8						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comm	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/44. <sup>,</sup>	4 Sufficiency Rating (Last/No (%)	ow) 6	64.9/59.5 Est. Repl.		2035 Maint.		qd. (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	Jason S	Saly	F	Assistant's Name								
Next Inspection Date	02-Aug-	-2013	F	Previous I	evious Inspection Date 11-Mar-2010							
Inspection Cycle (Default) (months) 21												
Comment												