Bridge Culvert Inspection														
Bridge File Number 79377 -1		1 Bridge Culvert				Form Type			CULE					
Year Built 1981							Lot No.			4				
Bridge or Town Name SPRUCE			E GROVE			Inspector Name		Kris Bosters						
Located Over TRIBUTA			ARY TO ATIM CREEK, 6.65.8.7,			Inspector Class			BR CLS A					
Located On	16 880:16:14 R1 16 869				Assistant Name									
Water Body CL/	10.000,10.141(110.003				Assistant Class									
Navigabil CL/Ye					Inspection Date		07-Oct-2010							
Legal Land Location NE SEC 7			7 TW/P 53 PGE 27 W/4M				Data Entry By			Jill Potts				
Longitude Latitude -113:58:0			03 53:34:11				Data Entry Date			26-Oct-2010				
Road Authority Alberta T		Transportation (AIT)				Reviewer Name			Arnold Assenheimer					
Contract Main, Area CMA11							Date		18-Oct-2010					
Clear Roadwav/	/Skew	23.8 / -50	0 deg. (LHF)				Dept. Reviewer Name			Brent Herrick				
AADT/Year		28,520 / 2	2009 (A)				Dept. Review Date		09-Nov-2010					
Road Classificat	tion	RAD-412	2.4-120				Follow-Up By							
Detour Length (	km)	1												
Bridge Culvert	Inform	ation												
Number of Culve	erts	1												
Pipe #	Barrel	S	span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	U/S	-		2400		MP		4		152X51		ROUND		
1	MAIN	2	314	2552		SPE		122		152X51	3.0	ELLIPSE		
Special Feature	s	V	ERT STEEL S	STRUTS										
Special Feature	s Comr	ment												
Litility Attachmo	nto				Uti	lities (L	ocated	at)						
							Coo							
Power	-						Municipal							
Others	Fibre	ontic North r/w Total Talco					Problem (Y/N) No							
Remarks	Tagge	ed on LI/S end												
Romanio	ragge			A	oproad	ch Road	l / Emba	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment			8	8										
Vertical Alignment						7								
Roadway Width	(m)		23.800				WBL 1	WBL 12.2, EBL 11.6.						
Embankment					5	5	Few tension cracks SE of culvert.							
Sideslope (	:1)		3.0	3.0			4: i upper nair or sidesiope.							
(Height of Cov	/er(m) :	<b>2.8</b> )												
Guardrail (Y/N)			Yes				Guardr	Guardrail on north side only.						
Approach Road	d / Emt	bankment	t General Rat	ing	7	7								
Linstream End														
Culvert Component La					Last	Now	Explan	ation of	Condi	tion				
Direction			S											
End Treatment (Concrete, Steel, NONE Others, None)														
Headwall			Х	Х										
Collar			Х	Х										
Wingwalls			Х	X										
(Shape: )														

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall			X	
Bevel End			Х	
Heaving (mm) 750				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	750			
Scour Protection		4	5	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion			5	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	07-Oct-2010			
Special Features				
Special Feature				
(Туре : )				
Special Feature				
(Туре : )				
Roof		4	7	
Measured Rise (mm)	2330			
Measured At Ring No.	1			
Sag (mm)	70			
Percent Sag	3			
Sidewall		6	7	
Measured Span (mm)	2434		_	
Measured At Ring No.	1			
Deflection (mm)	34			
Percent Deflection	1			
Floor	. ·	6	N	Too much water to view
Bulge (mm)	0	0		
Measured At Ring No	-			
Abrasion (Y/N)	Yes			
Circumferential Seams		7	5	30mm gan between SPCSP & CSP
Separation (mm)	0	,	0	
Longitudinal Seams	Ĵ.	X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two				
Cracked Seams				-
Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)			_	
Coating			5	
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

79377 -1 Bridge Culvert

	1	Bric	lge Cu	lvert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2400, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		2	4	U/S end heaved.					
Baffle		Х	X						
(Туре : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No			7-8, 100mm logs caught on struts & across inlet.					
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel Extension General Ratin	Ig	4	4						
		Drie		lvort Porrol					
Culvert Component		Last		Explanation of Condition					
(Pipe # 1 Primary Span Locat	tion Code: MAIN_Sna	Lasi n (mm	)· 2314	Rise (mm): 2552 Type: SPE)					
Barrel Last Accessible Date	07-Oct-2010		. 2014	Could only access 3/4 of barrel due to water depth					
Dairei Last Accessible Date	07-00-2010			Could only access 3/4 of barrel due to water depth.					
Special Features									
Special Feature			7						
(Type : VERT STEEL STRUTS)									
Special Feature									
(Туре : )									
Roof		4	6	The shape of this pipe looks very good. Barrel has been forced					
Measured Rise (mm) 2564				round' at U/S end to match CSP, reverts back to 5% ellipsed 4m					
Measured At Ring No.	11								
Sag (mm)	12								
Percent Sag	0								
Sidewall		6	N	Barrel has been forced 'round' at U/S end to match CSP, reverts					
Measured Span (mm)	2319			back to 5% ellipsed 4m from connection.					
Measured At Ring No.	11								
Deflection (mm)	3			1					
Percent Deflection	0								
Floor		6	N	Under water.					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	Yes								
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		Х	N	(Ring 8 & 9 from D/S cracked. R10 cracked both sides.					
Total No. of Cracked Rings	2			20/April/2000) water too deep to view cracked rings.					
Total No. of Rings with Two Cracked Seams	Total No. of Rings with Two Cracked Seams			1N.					
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel 58 Between Cracks (mm)								
Proper Lap (Y/N) No									
Longitudinal Stagger (Y/N) Yes									
Coating			5						
Corrosion By Soil (Y/N) No									
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2314	, Rise (mm): 2552, Type: SPE)					
Ponding (Y/N)	No								
Fish Passage Adequacy		2	4						
Baffle		Х	Х						
(Туре:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	G.R. was "3" due to cracked rings. Increased to "4" due to struts.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		X	Х						
Wingwalls		Х	Х						
(Shape : )			_						
Cutoff Wall		X	X						
Bevel End			6	Bevel is pushed to the west from fill pressure, minor. Last 3 rings					
Heaving (mm)	800			heaved. Projects about 2m from fill.					
Invert Above/Below Stream Bed ABOVE				-					
Above/Below (mm) 800									
Scour Protection		4	4	Loss of protection D/S around bevel.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>250</b> )									
Scour/Erosion		4	4	Outfall of 500mm with some loss of fill around bevel.					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	4	4						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			-						
Alignment			6	Meandering stream.					
Bank Stability			5						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) Yes									
Channel Bottom NONE Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			6						

Maintenance Recommendations											
Inspector Recommendations	Y	′ear	Inspector Comments	Department C	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 22	2.2/44.4	4 Sufficiency Rating (Last/Now) (%)	25.5/46.5	25.5/46.5 Est. Repl. Yr 2020		2020	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	Jacob Or	resile	Prev	evious Assistant's Name							
Next Inspection Date 07		012	Prev	revious Inspection Date 25-Nov-2008							
Inspection Cycle (Default) (months) 21											
Comment											