	Bridge C									CLILM			
Bridge File Nun	nber 78	3650 -1	Bridge Cuiver	τ									
Pridae or Town Name NAMAO						LOLINO.		4					
						Inspector Name							
Located Over	RI	IVER, 6	5.71, WATERC	RS-ST	ATCHI	EVVAN	Inspector Class			BR CLS A			
Located On 37:04 C1 21.430							Assistant Class						
Water Body Cl./Year							Inspection Date			12 Dec 2011			
Navigabil. CI./Y	′ear						Doto Entry Dy			Theresa Lacus	ta		
Legal Land Loc	ation SV	W SEC	2 TWP 55 RG	6E 23 W4	М		Data Ent	try Date		29- Jan-2012			
Longitude, Latit	tude -1	13:18:5	58, 53:42:57				Reviewe	r Name					
Road Authority	All	berta T	a Transportation (AIT)					Date		10- Jan-2012			
Contract Main.	Area CN	MA09					Dept. Reviewer Name		Rept Herrick				
Clear Roadway	/Skew 8.9	9 /					Dept. Review Date		02-Feb-2012				
AADT/Year	6,3	310 / 20	010 (A)				Follow-U	Jo By		02 1 00 2012			
Road Classifica	ation RA	AU-209	-110					~~ _ J					
Detour Length	(km) 6												
Bridge Culvert	t Informati	ion											
Number of Culv	/erts	2											
Pipe #	Barrel	S	pan	Rise (or I	Dia.) Type		L	ength		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-		1524		MP	2	28		68X13	2.8	ROUND	
2	MAIN	-		1524		MP	2	28		68X13	2.8	ROUND	
Special Feature	es												
Special Feature	es Commei	nt											
					1 1+i	litios (l	ocated a	+)					
Utility Attachme	ents				011			()					
Telephone							Gas						
Power	2 O/H lin	es N r/\	w				Municipa	al					
Others							Problem (Y/N) No						
Remarks							1						
				Ар	proad	ch Road	d / Embar	nkment					
					Last	Now	Explana	tion of (	Condit	ion			
Horizontal Aligr	nment				7	7	Intersect	Intersection with Hwy 28A East.					
Vertical Alignme	ent				8	8	2 cracks in ACP over both pipes, width of roadway. One over each pipe.					ne over each	
Roadway Width	ר (m)		8.900										
Embankment					8	8							
Sideslope (	_:1)		3.0				1						
(Height of Co	ver(m) : <b>1.</b>	6)											
Guardrail (Y/N)			No										
Approach Roa	ld / Emban	nkment	General Rati	ing	7	7							
				I		Upstrea	am End						
		Culvert Component					Evelope	tion of (		lon			
Culvert Compo	onent				Last	Now	Explana	tion of Q	Conan	.1011			
Culvert Compo (Pipe # : 1, Spa	onent an Type: F	Primary	/ Span)		Last	Now	Explana		Conan				
Culvert Compo (Pipe # : 1, Spa Direction	onent an Type: F	Primary	γ Span)		Last N	Now	West pip	e.	Conan				
Culvert Compo (Pipe # : 1, Spanner Direction End Treatment Others, None)	onent an Type: F (Concrete,	Primary	<b>y Span</b> ) STEEL		Last N	Now	West pip	be.					
Culvert Compo (Pipe # : 1, Sp Direction End Treatment Others, None) Headwall	onent an Type: F (Concrete,	Primary	<b>y Span</b> ) STEEL		Last N X	Now	West pip	pe.	Conan				
Culvert Compo (Pipe # : 1, Spa Direction End Treatment Others, None) Headwall Collar	onent an Type: F (Concrete,	Primary	y Span) STEEL		Last N X X	Now       X       X       X	West pip	pe.					

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		Х	X	
Bevel End		6	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		6	6	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	6	
		Brid	dqe Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1524, Type: MP)
Barrel Last Accessible Date	13-Dec-2011		•	West pipe.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Туре : )				
Roof		6	6	Top of crown bend down 50mm S. end.
Measured Rise (mm)	1455			At c/l of nine -16-Mar-2010
Measured At Ring No.				
Sag (mm)	69			lear in N end near crown.
Percent Sag	5			Ice on floor, rise not measurable.
Sidewall		6	6	
Measured Span (mm)	1568			Near CL
Measured At Ring No.				
Deflection (mm)	44			
Percent Deflection	3			
Floor		N	N	Approx 100mm - 150mm of silt & 500mm deep water16-Mar-2010
Bulge (mm)	0			log on floor approx, 200mm thick
Measured At Ring No.				
Abrasion (Y/N)	No			1
Circumferential Seams		5	5	20mm separation in collar, North coupler.
Separation (mm)	180			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings			-	1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel				
				-
Longitudinal Stagger (Y/N)				-

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	):	, Rise (mm): 1524, Type: MP)				
Coating		4	4	Bottom 1/2 has pitted rust, scaling.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		6	6					
Baffle		Х	Х					
(Type : )			1					
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		6	6					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Direction		S		West pipe.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape : )								
Cutoff Wall		X	X					
Bevel End		6	6					
Heaving (mm)	100							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100		1					
Scour Protection		6	6					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 200)		1	1					
Scour/Erosion		6	6					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	6	6					
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		N		East pipe.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					
Collar		X	X					

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	400			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		6	6	Bevel projects from fill about 1m. Grassed and stable.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	6	
		Brid	d <u>ge Cu</u>	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN	I, Span (ı	nm):	, Rise (mm): 1524, Type: MP)
Barrel Last Accessible Date	13-Dec-2010			East pipe.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Туре : )				
Roof		6	Х	Dents in roof near D/S end.
Measured Rise (mm)	1470			Centerline of nine -16-Mar-2010
Measured At Ring No.				Ice on floor, rise not measurable.
Sag (mm)	54			
Percent Sag	4			
Sidewall		6	6	
Measured Span (mm)	1562			@ d
Measured At Ring No.				
Deflection (mm)	38			
Percent Deflection	3			
Floor		N	N	Silt covered. Approx 150mm deep silt16-Mar-2010
Bulge (mm)	0			Floor ice covered - 300mm thick
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	180			
Longitudinal Seams		X	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)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)								
Coating		4	4	Pitted/scaling rust bottom 1/2.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							
Fish Passage Adequacy		6	6					
Baffle		Х	Х					
(Type : )		1	1					
Waterway Adequacy		6	6					
Icing (Y/N)	No			-				
Silting (Y/N)	No			-				
Drift (Y/N)	No							
Barrel General Rating		6	6					
		D	ownsti	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		S		East pipe.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		x	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape : )								
Cutoff Wall		Х	Х					
Bevel End		6	6	Slight bend in West bevel wall.				
Heaving (mm)	100							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500		1					
Scour Protection		6	6	Settlement up to 400mm along sides of bevel. Stable.				
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 200)								
Scour/Erosion		6	6					
Beavers (Y/N)	No		-					
Downstream End General Ratin	ng	6	6					
		S	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		5	5	90 degree bend into ditch to east, low velocity creek.				
Bank Stability		7	7					
HWM (m below Top of Culvert)			1	HWM not visible				
Drift (Y/N)	No							

Structure Usage									
		Last	Explanation of Condition						
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

			Maintenance Rec	commend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Com	ments		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/Now) (%)			7 Sufficiency Rating (Last/N (%)	ow) 6	61.0/61.0 Est. Repl. Yr 2019		2019	Maint. Reqd. (Y/N) No		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	Arnold	Assenhe	imer	Previous /	Assistant's Name					
Next Inspection Date	13-Sep	3-Sep-2013			Previous Inspection Date 16-Mar-2010					
Inspection Cycle (Default) (months)	21									
Comment										