Drides File Nurs	han	Bridge Culve					Frt Inspection						
Bridge File Number		74345 -1 Bridge Culvert											
Dridge of Town						LOT NO.		4					
							Inspector Name						
Located Op 16:02			(AIL CREEK, 8.11.134, WATERCRS-ST				Assists	Assistant Name					
Motor Pody CL/Voor			2 RT 37.771,10.02 LT 37.700				Assistant Class						
Novigobil CL/Year			<b>ر</b>				Assistant Class			12-40-2012			
Navigabil. Cl./Year			3 TWP 52 RG	E 24 W/5	N/I		Data Entry By			T2-Aug-2012			
Legal Lanu Location 3E 3			-53 53·27·28		IVI		Data Entry Date			27-Aug-2012			
Road Authority	uue	Alberta	Transportation	(ΔΙΤ)			Reviewer Name			Eric Carcoux			
Contract Main Area		Alberta Transportation (ATT)				Review Date		26 Aug 2012					
Clear Roadway/Skow 25.1		25 1 / 1						Dept. Reviewer Name		Brent Herrick			
AADT/Year 5.620		5 630 /	2011 (A)				Dept. Review Date						
Road Classificat	tion	RAD-41	AD-412 4-120					Follow-Up By					
Detour Length (	km)	1	12.11.120										
Bridge Culvert	Inform	ation					1			<u> </u>			
Number of Culve	erts		1										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S		-	2120		SP		35.3		152X51	3.0	ROUND	
1	MAIN		1675	1675		BP		91.9				SQUARE	
Special Feature	s										·		
Special Feature	Special Features Comment												
					Uti	lities (L	ocated	at)					
Telephone	North	f/w.					Gas						
Othere	5 lines	s oouiii i/w.					Problem (Y/N) No						
Others Problem (Y/N) No													
Remarks	File la	y South	neauwaii.	Δ	nnroad	h Poar	l/Emb	ankmont					
					Last	Now	Explanation of Condition						
Horizontal Align	ment				7	7	On curve, entrance to SE.						
Vertical Alignment				8	8	Slight grade.							
Roadway Width (m) 25.100						12.9 EB, 12.2 WB.							
Embankment				5	4	10m berm North side.		side					
Sideslope (	·1)		3.0				North sideslope rutted and settled from recent row clearing/chipping						
(Height of Cov	, /er(m) ·	5)	0.0										
Guardrail (Y/N)	<u>, or(iii) r</u>		Yes										
Approach Road	d / Emb	bankme	nt General Rat	ing	7	7							
						Upstre	am End						
Culvert Component					Last	Now	Explan	ation of	Condit	tion			
Direction S					S								
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			7	7									
Collar			5	5	Wide c	ks both si	des.						
Wingwalls			X	X									
(Shape : )													

Alberta Transportation

	1		Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall			N						
Bevel End			7	-					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	50								
Scour Protection		7	4						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion			4	Fill settled 0.4m on both sides of bevel and collar underminedphoto					
Beavers (Y/N)	No								
Upstream End General Rating		5	4						
		Brie	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): 2120, Type: SP)					
Barrel Last Accessible Date	12-Aug-2012								
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)			_						
Roof		6	6						
Measured Rise (mm)	2049								
Measured At Ring No.	9								
Sag (mm)	71								
Percent Sag	3								
Sidewall		7	7						
Measured Span (mm)	2184								
Measured At Ring No.	9								
Deflection (mm)	64								
Percent Deflection	3								
Floor		7	7						
Bulge (mm)	0			1					
Measured At Ring No.									
Abrasion (Y/N)	Yes								
Circumferential Seams		7	5	One bolt pulling through @ 9:00 @ Ring 9-likely during construction					
Separation (mm)	0			photo					
Longitudinal Seams		7	7						
Total No. of Cracked Rings	0		-	1					
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				1N stagger.					
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	Yes								
Coating		5	5	Superficial rust lower third.					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74345 -1 Bridge Culvert

		Bric	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2120, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			4	Stepped outfall at outlet.					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratin	g	6	6						
		Bric	lae Cu	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1. Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 1675	Rise (mm): 1675. Type: BP)					
Barrel Last Accessible Date	12-Aug-2012		,	······································					
	12 //09 2012								
Special Features									
Special Feature				CIP Concrete Transition.					
(Туре:)			-						
Special Feature				Wide cracks at connection point to conc. boxphoto					
(Туре:)									
Roof		6	6	Measured at U/S.					
Measured Rise (mm)	1670			Poorly consolidated concrete in several areas.					
Measured At Ring No.									
Sag (mm)	5			_					
Percent Sag	0								
Sidewall		6	6	At U/S.					
Measured Span (mm)	1672			Random med to wide cracks throughout.					
Measured At Ring No.				-					
Deflection (mm)				-					
Percent Deflection									
Floor	1	5	5	Tan 45mm shusidad aff					
Bulge (mm) 0									
Measured At Ring No.				-					
Abrasion (Y/N)	Yes								
Circumferential Seams	1	6	6	Seepage through most construction joints @ bottom wall; dry @ top.					
Separation (mm)	8		_						
Longitudinal Seams	1	Х	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)			1						
Coating			X						
Corrosion By Soil (Y/N) No									
Corrosion By Water (Y/N)	No								
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	): 1675	, Rise (mm): 1675, Type: BP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	Stepped outfall at outlet.				
Baffle		Х	Х					
(Type : )								
Waterway Adequacy		7	7					
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				
Direction	·	N						
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		7	7					
Collar		7	X					
Wingwalls		4	4	Severe scaling at nose of NW wingwall end. Wide diagonal wingwall				
(Shape : <b>FLARE</b> )				cracks, NE & NW. Wide vertical cracks and delams at transition to				
Cutoff Wall		Х	X					
Bevel End		Х	X					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	Above/Below (mm) 500							
Scour Protection			7					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		7	7	Streambed drops off beyond pool.				
Beavers (Y/N)	No							
Downstream End General Ratin	ng	4	4					
		S	structur	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			7					
Bank Stability			7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N) Yes								
Channel Bottom DEGRADING Degrading/Aggrading				Deg d/s.				
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)		1					
Channel General Rating		7	7					

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Com	nents		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CU	OFF											
REPAIR SEAMS										_		
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION				_								
Structural Condition Rating (Last/ (%)	Now)	66.7/66.	7 Sufficiency Rating (Last/No. (%)	ow) 6	60.0/59.1 Est. Repl. Yr		2040	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection	ngwalls.		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	Eric Ca	arcoux	F	Previous A	s Assistant's Name							
Next Inspection Date 12-I		12-May-2014 Pr			vious Inspection Date 16-Sep-2010							
Inspection Cycle (Default) (months) 21												
Comment												