				Brido	e Culve	ert Inspe	ection							
Bridge File Number 77040 -1 Bridge Culvert						Form Type			CUL1					
Year Built	1989	0			Lot No.			2						
Bridge or Town Name	LEDUC				Inspect	spector Name		Todd Warshawski						
Located Over TRIBUTARY TO BLACKMUD CF 6.95.2.6, WATERCRS-ST				REEK	.,	Inspector Class			BR CLS B					
Located On 814:02 C1 12.637						Assistant Name								
Water Body Cl./Year						Assistant Class			45.14 0040					
Navigabil. Cl./Year									15-Mar-2012					
Legal Land Location	NW SEC	23 TWP 49 F	RGE 24 W	/4M					Theresa Lacusta					
Longitude, Latitude -113:24:55, 53:14:53						Reviewer Name		10-Apr-2012						
Road Authority Alberta Transportation (AIT)								Eric Carcoux						
Contract Main. Area CMA11								09-Apr-2012 Brent Herrick						
Clear Roadway/Skew	10 /								11-Apr-2012					
AADT/Year	1,670 / 20	011 (A)				· · ·	Dept. Review Date		11-Api-2012					
Road Classification	RCU-210	-110				Follow-Up By								
Detour Length (km)	5													
Bridge Culvert Inform	nation													
Number of Culverts	1													
Pipe # Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1 MAIN	-		2120		SP		51.2		152X51	3.0	ROUND			
Special Features						1								
Special Features Com	ment													
							~							
				Ut	ilities (L	ocated	at)							
Utility Attachments	ditab					0.00								
•	ditch.				Gas Municipal									
Power								Nia						
Others Tag (2 West end of pipe.						m (Y/N)	No						
Remarks Tag	west en	u oi pipe.	٨	oproa	ch Poor	l/Emb	ankment							
					Now			Condi	tion					
Horizontal Alignment	6	6	Explanation of Condition Pipe located in a valley @ base of South hill.											
Vertical Alignment				6	6									
Roadway Width (m)	9.400													
Embankment				5	5	Not mu	ich vegeta	ation o	n sideslopes, s	mall erosion g	ullies up to			
Sideslope (:1) 3.0						300mm deepDec, 2008								
(Height of Cover(m) : 6)														
Guardrail (Y/N)		Yes			Several broken/damaged posts, 1 loose splice bolt on East rail.									
Approach Road / Em	bankment	General Rat	ing	6	6			_						
					Upstre	am End								
Culvert Component			Last	Now	Explan	ation of	Condi	tion						
Direction			W		-									
End Treatment (Concrete, Steel, STEEL Others, None)				_										
Headwall			X	X										
Collar			X	Х										
Wingwalls			Х	X										
(Shape :)														
Cutoff Wall				X	Х									

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End			7							
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection			6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Upstream End General Rating		7	6							
		Brid	dae Cu	Ivert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 2120, Type: SP)						
Barrel Last Accessible Date 09-Feb-1988				Ice/silt is up to 1.2m deep @ centreFeb,2008 Viewed from ends, shape & condition appears ok. Pipe accessible 5 rings from West, 2 rings from East.						
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Type :)										
Roof		N	N							
Measured Rise (mm)			-							
Measured At Ring No.										
Sag (mm)				Estimate.						
Percent Sag	5			Sumate.						
Sidewall	1	N	N							
Measured Span (mm)	2060									
Measured At Ring No.	2									
Deflection (mm)	60									
Percent Deflection	3			-						
Floor	-	N	N							
Bulge (mm)		14	14							
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	N							
Separation (mm)	0		11							
Longitudinal Seams	v	N	N							
Total No. of Cracked Rings		IN	IN							
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	Yes			1						
Longitudinal Stagger (Y/N)	Yes			1						
Coating		5	5	Corrosion deposits on roof bolts.						
Corrosion By Soil (Y/N)	Yes		5							
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG			2 1/2 - 3 ft negative camber in middleDec,2008						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77040 -1 Bridge Culvert

				Ivert Barrel					
Culvert Component									
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm):	, Rise (mm): 2120, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy	1	4	4	Restricted flow in culvert, higher flow speedsDec, 2008					
Baffle		N	N						
(Type :)									
Waterway Adequacy		4	4	Silting up to 1/2 of culvert diameterdEC,2008					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		N	N	Previous G.R. was "5" from 05/Oct/2005.					
			ownst	ream End					
Culvert Component			Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	Х						
Wingwalls		X	X						
(Shape :)			~						
Cutoff Wall		X	X						
Bevel End	1	7	7	-					
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	400	_							
Scour Protection		N	N	(And concrete blocks. 05/Oct/2005) sNOW COVERED					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Rati	ng	7	7						
			1	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		0	<u> </u>	Charp hand on LVC and					
Alignment		6	6	Sharp bend on U/S end.					
Bank Stability		6	6						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Maintenance Recommendations														
Inspector Recommendations			Year	Inspecto	or Comments		Department Co		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUMULATION														
INSTALL CONCR	ETE/STEEL LINING													
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUTOFF		DFF												
REPAIR SEAMS														
OTHER ACTION			2012	Replace guardrail	damaged posts and 1 splic I.	ce bolt on								
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)		ow)	55.6/55.0	6	Sufficiency Rating (Last/Now) (%)		48.8/47.8 Es		st. Repl. Yr 2030		Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next Inspection					ection.	Department Comments								
Maintenance Reviewed By							Date			E	Estimated Total	0		
Proposed Long-To														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Jas		Jason Saly F				Previous	Previous Assistant's Name			Bryce Clayton				
Next Inspection Date 1		15-Jun-2015				Previous	Previous Inspection Date 12-Dec-2008							
Inspection Cycle (Default) (months) 3		39												
Comment														