Bridge Culvert Inspection														
Bridge File Num	nber	76892 -1	-1 Bridge Culvert				Form Type			CUL1				
Year Built 1968							Lot No.			1				
Bridge or Town Name COALI			ALDALE				Inspector Name			Garry Roberts				
Located Over SMR			MR - IRRIGATION C, WATERCRS-IC					or Class		BR CLS A				
Located On 845:02			2 C1 26.045				Assistant Name							
Water Body Cl./	/Year					Assistant Class								
Navigabil. Cl./Year							Inspection Date			20-Mar-2012				
Legal Land Loc	NW SEC 26 TWP 8 RGE 20 W4M						ntry By		Lauren Korte					
Longitude, Latitude -		-112:37:22, 49:41:02						ntry Date		12-Apr-2012				
Road Authority		Alberta Transportation (AIT)						er Name	9	Garry Roberts				
Contract Main.	CMA25				Review Date			23-Mar-2012						
Clear Roadway/Skew 9.1 /							Dept. Reviewer Name			Tim Davies				
AADT/Year 80		800 / 20	11 (A)		Dept. Review Date			17-Apr-2012						
Road Classifica	tion	RCU-20	8-110				Follow-	Up By						
Detour Length ((km)	3												
Bridge Culvert	Informa	ation												
Number of Culverts 1														
Pipe #	Barrel	S	Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2490	1750		RPP		18.9		152X51	2.8,2.8,2.8	PIPE ARCH		
Special Feature	Special Features													
Special Features Comment														
Litility Attachmo	nto				Οt	inties (L		at)						
		n conduit	t over capal				Gas		20m i	Instroom				
Perver Control Vote and North side						Municipal Coto 4			6m from East end					
Othors	er East and North side.						Problem (V/N) No			on nom Last end.				
Demorke							FIUDIEI	11 (171 N)	INU					
Approach Road / Embankmont														
					Last	Now	Explan	ation of	Condi	tion				
Horizontal Alignment				9	8	Church and residential access.								
Vertical Alignment					8	8	1							
Roadway Width	n (m)		8.200	0										
Embankment					8	8								
Sideslope (:1)			3.0											
(Height of Co	ver(m) :	0.5)					1							
Guardrail (Y/N)			No											
Approach Roa	d / Emb	ankmen	t General Rat	ing	8	8								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
Direction				W		West.								
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall			Х	Х										
Collar			Х	Х										
Wingwalls			Х	X										
(Shape :)					1	1								
Cutoff Wall					X	Х								

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			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	7	Large rock in the bevel.					
Heaving (mm)	0								
Invert Above/Below Stream Bed				_					
Above/Below (mm) 0									
Scour Protection			8						
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		8	8						
Beavers (Y/N)	No								
Upstream End General Rating		6	7						
		Brid	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)): 2490	, Rise (mm): 1750, Type: RPP)					
Barrel Last Accessible Date	20-Mar-2012			2490 x 1750 design.					
Special Features									
Special Feature									
(Туре :)									
Special Feature									
(Type:)									
Roof		3	3	Construction holes in R1. Beginning of reverse curvature entire roof					
Measured Rise (mm)	1550			length.					
Measured At Ring No. 5									
Sag (mm)	200								
Percent Sag	11								
Sidewall		7	7						
Measured Span (mm)	2530								
Measured At Ring No	5			-					
Deflection (mm)	40			-					
Percent Deflection	2			-					
Floor		5	5						
Bulge (mm)	0	5	5						
Measured At Ring No									
Abrasion (V/N)	No								
Circumforontial Scome		E	E						
Circumterential Seams		5	0						
Separation (mm)			2	Deef not well neeted 20mm vertical replacement					
Total No. of Crooked Diver	0	3	3	Beginning of reverse curvature @ 12:00.					
Total No. of Rings with Two	0								
Min. Remaining Steel									
	No			-					
	No								
Coordinar Stagger (Y/N)			4						
		4	4	Corrosion with some pitting on the lower half of the pipe.					
Corrosion By Soil (Y/N)	Vee			-					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

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Bridge Inspection & Maintenance System (Web 2005)

		Bric	lge Cul	vert Barrel							
Culvert Component			Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm): 2490	, Rise (mm): 1750, Type: RPP)							
Fish Passage Adequacy		Х	7								
Baffle		Х	Х								
(Туре :)											
Waterway Adequacy		7	7								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N) No											
Barrel General Rating		3	3								
Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Direction		E		East.							
End Treatment (Concrete, Steel, Others, None)	STEEL		,								
Headwall		Х	X								
Collar		X	X								
Wingwalls		Х	Х								
(Shape:)											
Cutoff Wall		X	X								
Bevel End	1	6	7								
Heaving (mm) 75											
Invert Above/Below Stream Bed BELOW											
Above/Below (mm)	100		1								
Scour Protection		7	7								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)			1								
Scour/Erosion			7								
Beavers (Y/N)	No										
Downstream End General Ratin	ng	6	7								
	Structure Usage										
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)			1								
Alignment		9	9	15m U/S drop structure. Turnout 2m D/S to North.							
Bank Stability			8								
HWM (m below Top of Culvert) 1.1				No visible HWM.							
Drift (Y/N) No											
Channel Bottom NONE Degrading/Aggrading											
Beavers (Y/N) No											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating		9	9								

Maintenance Recommendations													
Inspector Recommendations			Year	ar Inspector Comments			Department Con		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS			2012										
INSTALL CONCRETE COLLAR/CUTOFF													
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION										_			
Structural Condition Rating (Last/Now) (%)			33.3/33.	3	Sufficiency Rating (Last/Now) (%)		55.8/57.7	Est. R	st. Repl. Yr 2020		Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection ER4 can be increased with strutting. Combination of low cover (0.5m) and beginning reverse curvature in roof makes strutting urgent.					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 Glen		Glen M	Glen Mikesh Previo				Assistant's Name	Be	Bernie Roseke				
Next Inspection Date 20-		20-Jun	-2015			Previous	s Inspection Date 22-Apr-2009						
Inspection Cycle (Default) (months) 39		39											
Comment													