					Brida	e Culve	ert Inspe	ection						
Bridge File Number 07615 -1			-1 Bridge Culvert				Form Type		CUL1					
Year Built 1973						Lot No.		4						
Bridge or Town Name AIRDRI			RDRIF				Inspector Name		Garry Roberts					
Located Over		CROSSFIELD CREEK, 3.33.20,					Inspector Class			BR CLS A				
		WATERCRS-ST					Assistant Name							
Located On		567:06 C	1 16.785			Assistant Class								
Water Body Cl	l./Year					Inspection Date				25-Jul-2012				
Navigabil. Cl./	Year						Data Entry By			Lauren Korte				
Legal Land Lo	cation	SE SEC						Data Entry Date		30-Aug-2012				
Longitude, Latitude -113:44:			1.16 51.17.50					Reviewer Name		Tom Carey				
Road Authority	/	Alberta T	ransportation	(AIT)			Review Date		07-Aug-2012					
Contract Main.	. Area	CMA29					Dept. Reviewer Name							
Clear Roadway	y/Skew	9.5 /					Dept. Review Date		06-Sep-2012					
AADT/Year		1,840/2	011 (A)				Follow-Up By		,	00-069-2012				
Road Classific	ation	RLU-209	9-110				- голом-ор бу							
Detour Length	(km)	6												
Bridge Culver	rt Inform	ation												
Number of Cul	lverts	1												
Pipe #	Barrel	S	Span Rise (or		Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2896	3200		SPE		58.5		152X51	3.0	ELLIPSE		
Special Featur	es									1		1		
Special Featur		ment												
•														
					Uti	ilities (L	ocated	at)						
Utility Attachm	ents						-							
Telephone	South	ditch.	tch. Gas											
Power	North	n ROW.						bal						
Others							Proble	m (Y/N) N	0					
Remarks														
				Α				ankment						
						Now	1	ation of Co						
Horizontal Alig					8	8	In sag curve, steep gradient.							
Vertical Alignm					5	5								
Roadway Widt	th (m)		9.500											
Embankment				7										
Sideslope (_	_:1)		3.0											
(Height of Co	over(m) :	: 6.3)												
Guardrail (Y/N)		Yes											
Approach Roa	ad / Eml	bankmen	t General Rat	ing	5	5								
						Unctre	am End							
Culvert Comp	onent				Last			ation of Co	ndi	tion				
Culvert Component Direction				N		North.		mul						
End Treatment (Concrete, Steel, STEEL														
Others, None)														
Headwall				X	X									
Collar			X	Х										
Wingwalls			X	X										
(Shape :)														
Cutoff Wall				X	X									

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	_
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	200		1	
Scour Protection		7	7	
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 400)			1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	7	7	
		Bric	lge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		pan (mm): 2896	6, Rise (mm): 3200, Type: SPE)
Barrel Last Accessible Date	25-Jul-2012			
Special Features				
Special Feature				_
(Туре :)			_	
Special Feature				_
(Туре:)				
Roof		5	5	U/S- 3134
Measured Rise (mm) 2900				R6- 2969 R9- 2900
Measured At Ring No. 8				R12- 3012
Sag (mm)	300			D/S R15- 3187 Dimensions are not reflection of actual pipe shape which is good.
Percent Sag	9			
Sidewall		5	5	U/S-R1- 2927
Measured Span (mm)	3205			R6- 3146 R9- 3191
Measured At Ring No.	8			R12- 3097 D/S R15- 2940
Deflection (mm)	309			Sidewall dimensions are not reflection of actual pipe shape which is
Percent Deflection	10			good.
Floor		6	6	
Bulge (mm)	0			(MINOR)
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	Staggered, some alkali, several bolts missing.
Separation (mm)	0			
Longitudinal Seams		6	6	West side improperly lapped at 1 and 2 clock.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Alkali & moderate water corrosion.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Catlver ComponentLasNovExplanation of Condition(Pipe #: 1, Primary Span, Lection Code: MAIN, Sparse>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Bridge Culvert Barrel										
(Pipe if : 1, Primary Span, Locat: or Code:: MAIN, Span (mm): 2896, Rise (mm): 3200, Type: SPE) Fish Passage Adequacy X X Baffia No X Stilling (V/N) No X Barrel General Rating S 5 End Teament (Concrete, Steel) Suth. Direction STEEL Suth. Collar STEEL X X Passage Adequacy X X Collar STEEL X X Streament (Concrete, Steel) STEEL X X Collar STEEL X X Streament (Concrete, Steel) X X X Streament (Concrete, Steel) STEEL X X Streament (Concrete, Steel) STEEL X X Streament (Concrete, Steel) X X X Streament (Concrete, Steel) X X X Streament (Concrete, Steel) X X Streament (Concrete, Steel) <td>Culvert Component</td> <td></td> <td></td> <td></td> <td></td>	Culvert Component										
ControlXXRattleXX(Type :)XXUter way AdequacyNoISilling (Y/N)NoIDrit (Y/N)NoSouth.End Treatment (Concrete, Steel, STEELSouth.Others, None)StEELSouth.HeadwallXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarXXCollarTTGewel EndTTCollarTTHeaving (mm)0ICollarTTGewel EndFTCollarTTGewel EndFTCollarTTGewel EndFTCollarTTGewel EndFTCollarTT <t< td=""><td colspan="9"></td></t<>											
Type :) Image (Type :) Image	Fish Passage Adequacy		X	X							
(Type :) Valerway Adequacy Y Y Valerway Adequacy No V Silling (YM) No V Drift (YM) No V Drift (YM) No V Barle General Rating V S Direction V S Direction S South End Treatment (Concrete, Steel, STEEL V Spatialian of Condition Collar X X Collar X X Collar X X (Shepe :) X X Collar X X South X X Mingwalls X X Collar X X Collar X X South Consent X X Gheye E .) X X Collar Y Y Collar Y Y Mingwalls Y Y Collar Y Y Collar Y Y Mingwalls P Y Collar Y Y Mingwalls P Y Collar Y Y	Baffle		Х	Х							
Iding (Y/N) No Image: No Shing (Y/N) No Image: No Barrel General Rating s S Barrel General Rating S S Culvert Component Cast Nove Explanation of Condition Direction S South. South. Presenting (Concrete, Steel) STEEL S South. Collar S X X Collar X X X Shing (m) O X X General Rating X X X Collar X X X Collar X X X Stange:) X X X Collar X X X Bevel End X X X Sourd Proteotor Y Y Y Type: RIP RAP Y Y Y Courle Coston X Y Y Sourd Proteotoro	(Type:)										
Ining (YM)NoImage: Second secon			7	7							
Siting (Y/N)NoImage: Second se		No		_							
Drift (Y/N) No Image: No Barrel General Rating S 5 Barrel General Rating S S Culver Component Image: No Set Testiment (Concrete, Steel, Others, None), STEEL Subt. Direction STEEL S South. Headwall STEEL T South. Collar S X X Vingwalls S X X (Shap :) X X Cutoff Wall O X X Beavel End BLOW X X Heaving (mm) O O T Heaving (mm) O O T Scour Protection T T K/Agv. Rock Size(mm): 400 T T Scour/Protection T T K/Agv. Rock Size(mm): 400 T T Scour/Protection T T T Row Ref Size(mm): 400 T T Scour/Protection T T T Row											
Barrel General Rating f f f Cuiver Component Istation Kastion Kastion Direction Sub. South. End Treatment (Concrete, Steel, Others, None) STEEL Sub. Headwall STEEL X X (Collar X X X (Shape :) X X X (Shape :) Y Y (Shape : Sham Bot Shape :											
Culvert ComponentLastNowExplanation of ConditionDirectionSSouth.End Treatment (Concrete, Steel, Others, None)STEEL.XXEnd advantableSTEEL.XXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarTXXShape :)XXXCutoff WallTTTBevel EndOTTHeaving (mm)OTTPhaving (hem)ISOTScour/ForosionTTScour/ForosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionTTSour/ErosionGGChanel (US and D/S)GGBank StabilityGGMin Min below Top of CulvertGPrint (V/N)NoGChanel BottomEGRADINGBervers (Y/N)NoReavers (Y/N)NoChanel BottomEGRADINGGried ChangendinGGried ChangendinGChanel Bottom			5	5							
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Direction STELE South. End Treatment (Concrete, Steel, STEEL STEEL Image: Steel Stee Stee											
End Treatment (Concrete, Steel, Others, None) STEEL I Headwall X X X Collar X X X Wingwalls V X X (Shape :) X X Cutoff Wall V X Bevel End 0 X Heaving (mm) 0 X Bevel End I Y Heaving (mm) 0 X Above/Below Stream Bed BELOW Y Above/Relow (mm) 150 I Scour Protection 7 7 (Avg. Rock Size(mm): 400 I I Scour/Protextion 7 7 (Avg. Rock Size(mm): 400 I I Scour/Protextion 7 7 Scour/Protextion 7 7 Scour/Protextion 7 7 Scour/Protextion 7 7 Reavers (V/N) No I Beavers (V/N) No I Bank Stability No I Hidgment I I Inft (I/N) No I Personal Measure 1: Now I I Inft (I/N) No I			1	Now							
Others, None)Image: Some state in the second state in the se		07551	S		South.						
ColarKKKColarXXWingwallsXX(Shape :)XX(Shape :)XXCutoff WallVXBevel EndXXHeaving (mm)0VInvert Above/Below Stream BedBELOWVAbove/Below (mm)150VScour ProtectionYYCrype : RIP RAPV(Avg. Rock Size(mm) : 400)YScour/ErosionYYScour/ErosionYYBeavers (Y/N)NoYStatement Log Canada C	End Treatment (Concrete, Steel, Others, None)	SIEEL									
Wingwalls (Shape :)I (Shape :)I (Shape :)Cutoff Wall X X X Bevel End T T Heaving (mm) 0 T Obver Above/Below Stream BedBELOW T Above/Below (mm) 150 T Scour Protection 150 T Churge RIP RAP) T T (Type : RIP RAP) T T (Avg. Rock Size(mm) : 400) T T Beavers (Y/N)No T T Beavers (Y/N)No T T Channel (U/S and D/S) T T T Alignment 0 T T Alignment No T T Alignment No T T Alignment D T T <td>Headwall</td> <td></td> <td>X</td> <td>X</td> <td></td>	Headwall		X	X							
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Invert Above/Below Stream Bed BELOW I Above/Below (mm) 150 I Scour Protection 7 7 (Type : RIP RAP) 7 7 (Avg. Rock Size(mm) : 400) V V Scour/Erosion 7 7 Beavers (Y/N) No 7 7 Downstream End General Ration 7 7 7 Toposation No 7 7 Alignment No 7 7 Alignment Image: Statististististististististististististist	Bevel End		7	7							
Above/Below (mm)150Image: state in the state in	Heaving (mm)	0									
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(Avg. Rock Size(mm) : 400)Scour/Erosion777Beavers (Y/N)No77Downstream End General Rate777Downstream End General Rate777Channel (U/S and D/S)777Alignment66Curve @ U/S, Dugout 8m D/S.Bank StabilityNo66HWM (m below Top of Culver)No66Drift (Y/N)No24Channel BottomDEGRADING54Beavers (Y/N)No15Beavers (Y/N)No15Fish Compensation Measure 1 : HONE:55Fish Compensation Measure 2 : HONE:55	Scour Protection		7	7							
Scour/Erosion777Beavers (Y/N)NoIIDownstream End General Ratio777Image: Construct Cons	(Type : RIP RAP)										
Image: No constraint of the series of the	(Avg. Rock Size(mm) : 400)			1							
Image: Province of the system of the syst	Scour/Erosion			7							
Image: Second	Beavers (Y/N)	No									
Image: constraint of the system of the sys	Downstream End General Ratir	ng	7	7							
Image: constraint of the system of the sys			S	structu	re Usage						
Channel (U/S and D/S) Alignment 6 6 Curve @ U/S. Dugout 8m D/S. Bank Stability 6 6 6 HWM (m below Top of Culvert) No 6 6 Drift (Y/N) No Image: Comparison of Culvert) No Image: Comparison of Culvert) No Beavers (Y/N) No Image: Comparison of Culvert) No Image: Comparison of Culvert) Image:											
Alignment66Curve @ U/S. Dugout 8m D/S.Bank Stability66HWM (m below Top of Culvert)Drift (Y/N)NoChannel Bottom Degrading/AggradingDEGRADINGBeavers (Y/N)No(Fish Compensation Measure 1: VONE :(Fish Compensation Measure 2: VONE :	Channel (U/S and D/S)										
Bank Stability66HWM (m below Top of Culvert)Image: StabilityDrift (Y/N)NoNoImage: StabilityChannel Bottom Degrading/AggradingDEGRADINGBeavers (Y/N)NoNoImage: Stability(Fish Compensation Measure 1 : NONE): (Fish Compensation Measure 2 : NONE):			6	6							
Drift (Y/N)NoChannel Bottom Degrading/AggradingDEGRADINGBeavers (Y/N)NoKish Compensation Measure 1 : NONE)(Fish Compensation Measure 2 : NONE)	Bank Stability			6							
Channel Bottom Degrading/Aggrading DEGRADING Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	HWM (m below Top of Culvert)				HWM NOT VISIBLE.						
Degrading/Aggrading Image: Comparison of the sector of t	Drift (Y/N)	No									
Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)											
(Fish Compensation Measure 2 : NONE)		No									
	· · · · ·	NONE)									
	· · ·										
			6	6							

Maintenance Recommendations											
Inspector Recommendations		Year	r Inspector Comments			Department Com	iments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINI	١G										
INSTALL STRUTS											_
INSTALL CONCRETE COLLAR/CU	TOFF										_
REPAIR SEAMS											_
OTHER ACTION											_
OTHER ACTION											
OTHER ACTION											_
OTHER ACTION											
Structural Condition Rating (Last (%)	/Now)	55.6/55.	6	Sufficiency Rating (Last/ (%)	Now)	63.9/63.8	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	sions are not reflections of actual pipe shape which is good. G.R rated adequate. (G.R May 14/09).				. 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 Gai		Garry Roberts Previ				s Assistant's Name					
Next Inspection Date 25		25-Oct-2015 Pre				Inspection Date	14-May-2009				
Inspection Cycle (Default) (months) 39											
Comment											