Bridge Inspection & Maintenance System (Web 2005)

					Brida	e Culve	ert Insp	ection					
Bridge File Nur	mber	71140 -	1 Bridge Culver	rt	Enreg	e ourve	Form Type			CULM			
	Year Built/Lined 1984/1995						Lot No.		4				
Bridge or Town							Inspector Name		Garry Roberts				
Located Over	Tranic		RED DEER RIVER, 3.89,				Inspector Class		BR CLS A				
							Assistant Name		DITOLOT				
Located On		40:14 C	1 45.935				Assistant Class						
Water Body Cl.	./Year						Inspection Date		26-Mar-2013				
Navigabil. Cl./Y	/ear						Data Entry By		Lauren Korte				
Legal Land Loo	cation	SE SEC					Data Entry Date		11-Apr-2013				
Longitude, Lati	tude	-115:02:	2:16, 51:26:56				Reviewer Name		Tom Carey				
Road Authority	a Transportation (AIT)				Review Date		10-Apr-2013						
Contract Main.	Area	CMA28						Reviewer	Nama	Tim Davies			
Clear Roadway	y/Skew	10.2 / -1	0 deg. (LHF)				· · ·	Review Da		06-May-2013			
AADT/Year		380 / 20	12 (A)				Follow			00-10lay-2013			
Road Classifica	ation	RAU-21	0-110					ор Бу					
Detour Length	(km)	20											
Bridge Culver	t Inform	ation											
Number of Cul	verts	:	2										
Pipe #	Barrel	:	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	2134		SP		54.9		152X51	3.0	ROUND	
3	MAIN F	ULL	-	760		SSP		31				ROUND	
Special Feature	es												
Special Feature		ment											
•													
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents						1						
Telephone							Gas		Pipeli	ne 80m South.			
Power	_						Municipal						
Others							Problem (Y/N) No						
Remarks													
				Ap				ankment					
					Last	Now	· ·	ation of					
Horizontal Alig					5	5	Hill to s	south, cur ce East to	ves Sc Harol	outh & North, d Creek/			
Vertical Alignm	ient				5	5	Salisbu	Salisbury Road (SH 579) on grade.					
Roadway Widtl	h (m)		10.200			1							
Embankment					6	6							
Sideslope (_:1)		2.5										
(Height of Co	over(m)	8.8)											
Guardrail (Y/N)			Yes				Minor damage @ 2 areas @ West- bent in 150mm.						
Approach Roa	Approach Road / Embankment General Rating			5	5	Plow d	Plow damage NE Turndown - minor.						
				J			am End						
Culvert Component			Last			ation of	Condi	tion					
(Pipe # : 1, Sp		e: Prima	ry Span)										
Direction			,		W		West.						
End Treatment (Concrete, Steel, Others, None)		, STEEL											
Headwall					Х	X							

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Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Culver Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): Rise (mm): 2134, Type: SP) Cocordson Mail Condition More superficial corresion. Corresion By Solf (V/N) No Image: Condition Code: Mail Condition More superficial corresion. More superficial corresion. Camber POS/ZERO/NEG NEG Image: Condition Code: Mail Condition More superficial corresion. Ponding (V/N) No Image: Condition Code: Mail Condition More superficial corresion. Siling (Y/N) No Image: Condition Code: Mail Condition More superficial corresion. Vaterway Adeguacy 6 6 6 More superficial corresion. Siling (Y/N) No Image: Condition Code: Mail Condition Image: Condition Vaterway Adeguacy 6 6 6 6 Colleget Component Last Now Epstendition of Condition (Pipe # 1, Span Type: Primary Span) Image: Condition Epstendition of Condition Order X X X Collar X X X <t< th=""><th></th><th></th><th>Brid</th><th>dae Cu</th><th>lvert Barrel</th></t<>			Brid	dae Cu	lvert Barrel	
(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm):Rise (mm): 2134, Type: SP)Corading by Soll (YN)NoCorradion By Waler (YN)NoCamber POS/ZERO/NEGNEGPonding (Y/N)NoSoll (YN)NoFish Passage Adequacy5SSBafflaX(Yppe :)XXX(Yn)NoSiling (YN)NoSiling (YN)NoSiling (YN)NoSiling (YN)NoSiling (YN)YesDrift (YR)NoSiling (YN)YesDrift (YR)NoSoling (YN)YesDrift (YR)NoSoling (YN)YesDrift (YR)NoSoling (YN)STEELSteament (Concrete, Steel)STEELHeadwallSTEELCollarXXXSour ProtectionSolSour ProtectionSolSour ProtectionSolSour ProtectionSolRese (MN)NoSour ProtectionSolSour ProtectionSol <td>Culvert Component</td> <td></td> <td></td> <td></td> <td></td>	Culvert Component					
Cating 6 6 6 6 6 6 6 6 6 6 6 6 Corrosion By Soli (V/N) No Corrosion By Soli (V/N) Yes Commer POS/ZERO/NEG NEO Image: Commer C		ion Code: MAIN, Spa				
Corrosion By Solt (YN) No Image: Corrosion By Water (YN) Yes Camber POS/ZERO/NEG NEG Image: Corrosion By Water (YN) No Fish Passage Adequacy 5 5 S Fish Passage Adequacy 5 5 S Gardie IT (YN) No X X (Type :) X X (400 mm silt and rock in D/S rings). Icing (YN) No Image: Corrosite It (A00 mm silt and rock in D/S rings). Icing (YN) Siling (YN) No Image: Corrosite It (A00 mm silt and rock in D/S rings). Icing (YN) Siling (YN) No Image: Corrosite It (A00 mm silt and rock in D/S rings). Icing (YN) Siling (YN) No Image: Corrosite It (A00 mm silt and rock in D/S rings). Icing (YN) Siling (YN) No Image: Corrosite It (Corrosite It (Corrosite It (Corrosite It (YN)) No Barel General Rating Image: Corrosite It (Corrosite Steel, Others, None) Image: Corrosite It (Corrosite It (Corrosite It (YN)) Image: Corrosite It (YN) Headwall Image: Corrosite It (Corrosite It (YN) Image: Corrosite It (YN) Image: Corrosite It (YN)						
Corrosion By Water (V/N) Yes ✓ Camber POS/ZERO/NEG NEG ✓ Ponding (V/N) No ✓ Fish Passage Adequacy 5 5 5 Baffe X X X (Type :) X X X Waterway Adequacy 6 6 6 Silling (V/N) No ✓ ✓ Drift (Y/N) No ✓ ✓ Barrel General Rating 6 6 6 Culvert Component Last Now Explanation of Condition (Pipe # : 1, Span Type: Primary Span) Direction E East. Caller Component Last Now East. Others, None) X X X Vingwalts X X X Gollar X X X Gollar X X S Goldar X X S Goldar (mm) 0 <td>Corrosion By Soil (Y/N)</td> <td>No</td> <td></td> <td></td> <td></td>	Corrosion By Soil (Y/N)	No				
Camber POS/ZERO/NEG NEG Image: state s	· · · · · · · · · · · · · · · · · · ·	Yes				
Ponding (YiN)NoImage: Second Probability of Concrete, Steel (YiN)NoFish Passage Adequacy55BaffieXX(Yape:)YesWaterway Adequacy66Iding (YiN)NoSitting (YiN)NoBarrel General Rating66Culvert ComponentLast Now Explanation of Condition(Pipe i: 1, Span Type: Primary Span)East.DirectionEEast.CollarXXVingwallsXX(Shape :)XXCulveft ComponentEUndergowing (mm)0Invert Above/Below Stream BedELOWAbove/Below Stream BedELOW </td <td></td> <td>NEG</td> <td></td> <td></td> <td></td>		NEG				
Fish Passage Adequacy55BaffleXX(Type :)VWaterway Adequacy66Icing (Y/N)NoSilling (Y/N)NoBarrel General Rating66Culvert ComponentLast NowEnd Teadmant (Concrete, Steel, STEEL)EastOthers, None)XXVingwallsXXCollarXXVingwallsXXCulveft ComponentXXCollarXXVingwallsXXCollarXXVingwallsXXSocur Protection66Heaving (mm)0						
Baffie X X (Type :) X X (Type :) 0 0 Icing (Y/N) No 0 Sitting (Y/N) Yes 0 Drift (Y/N) No 0 Barrel General Rating 6 6 Culvert Component Last Now Explanation of Condition (400 mm silt and rock in D/S rings). Print (Y/N) No 0 Culvert Component Last Now Explanation of Condition (400 mm silt and rock in D/S rings). Print Component Last Now Explanation of Condition (400 mm silt and rock in D/S rings). Collor Last Now Explanation of Condition Explanation of Condition (Pipe # : 1, Span Type: Primary Span) X X Collar X X X Collar X X X Graphice :) X X X Sevel End 7 7 7 <	Ponding (Y/N)	No				
$\begin{array}{ $	Fish Passage Adequacy		5	5		
Waterway Adequacy6666lcing (Y/N)No $>>$ Silting (Y/N)No $>>$ $>>$ Drift (Y/N)No $>>$ $>>$ $>>$ Barrel General Rating666Culvert Component $>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>$	Baffle		X	Х		
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	Waterway Adequacy		6	6	(400 mm silt and rock in D/S rings).	
Sitting (Y/N)YesImage: Second		No				
$ \begin{array}{c c c c } \label{eq:relation} & \end{tabular} & \end{tabuar} & \end{tabular} & \end{tabular} & \end{tabular} & tabul$		Yes				
Barrel General Rating 6 6 6 Culvert Component Last Now Explanation of Condition (Pipe # : 1, Span Type: Primary Span) E East. Fast. Direction E East. East. East. Collar X X X Collar X X Collar X X X Collar X X Vingwalls X X X Collar X X Vingwalls X X X Collar X X Vingwalls X X X Collar X X Shape :) V X X X Seconcentral Rating (mm) 0 Collar X X Bevel End For Apple Ration (from) 600 For Apple Ration (from) For Apple Rati						
Culvert ComponentLastNowExplanation of Condition(Pipe #: 1, Span Type: Primary Span) E E East.Direction E E E E Contrament (Concrete, Steel, Others, None) $STEEL$ X X Headwall X X X Collar X X X Collar X X X (Shape :) X X X (Shape :) X X X Cutoff Wall X X X Bevel End T T T Heaving (mm) 0 T T Nove Below (therm) 600 T Scour Protection 6 6 (Type : RIP RAP) T T (Avg. Rock Stze(mm) : 300) G G Scour/Forosion G 6 Beavers (Y/N)No T Downstream End General Rative G F F Cutvert ComponentLast $(Pipe : I, Span Type: Secondary Span)$ W Direction G $End Treatment (Concrete, Steel, Concrete)WEnd Treatment (Concrete, Steel, Concrete)WHeadwallKHeadwallKKK$			6	6		
Culvert ComponentLastNowExplanation of Condition(Pipe #: 1, Span Type: Primary Span) E E East.DirectionSTEEL I I I End Treatment (Concrete, Steel, Others, None)STEEL X X Headwall I X X X Collar X X X Collar X X X Vingwalls X X X (Shape :) X X X Cutoff Wall X X X Bevel End T T T Heaving (mm) 0 I I Nove Below (tream Bed BELOW I I AboveBelow Stream Bed BELOW I I Scour/Protection 6 6 (Type : RIP RAP) I I (Avg. Rock Size(mm) : 300) I I Scour/Erosion I I Beavers (Y/N)No I Downstream End General Rative I </td <td></td> <td></td> <td></td> <td>ownstr</td> <td>eam End</td>				ownstr	eam End	
(Pipe # : 1, Span Type: Primary Span)EEast.East.End Treatment (Concrete, Steel, None)STEELMini SteelSTEELCollarXXVingwallsXXCollarXXVingwallsXXCutoff WallXXSevel EndOInvert Above/Below Stream BedBELOWAbove/Below Stream Bed BELOWScour/FrodetionScour/FrodetionSour/FrodetionNoScour/FrodetionColver KiP RAP) (Avg. Rock Size(mm): 300)StoeScour/FrodetionSour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/FrodetionScour/Frodetion <th col<="" td=""><td>Culvert Component</td><td></td><td>1</td><td></td><td></td></th>	<td>Culvert Component</td> <td></td> <td>1</td> <td></td> <td></td>	Culvert Component		1		
DirectionEEast.End Treatment (Concrete, Steel, Others, None)STEELXXHeadwallXXXCollarXXXCollarXXX(Shape :)XXX(Shape :)XXXCutoff WallXXXBevel End77Heaving (mm)0VVInvert Above/Below Stream BedBELOWVAbove/Below (mm)600VScour Protection66(Type : RIP RAP)VV(Avg. Rock Size(mm) : 300)66Beavers (Y/N)NoVVDownstream End General Rating66Culvert ComponentLastNovExplanation of Condition(Pipe # : 3, Span Type: Secondary Span)VLocated 3 m above and 15 m South of primary.DirectionWVVHeadwallVVWNoVIntert Concrete, Steel, CONCRETEVWNoVHeadwallVHeadwall8Rot Span Type: Secondary Span)Located 3 m above and 15 m South of primary.		y Span)	1-0101			
End Treatment (Concrete, Steel, Others, None) STEEL Image: Steel of the steel		_ . _,	E		East.	
HeadwallXXXCollarXXVingwallsXX(Shape :)XX(Shape :)XXCutoff WallXXBevel End77Haaving (mm)0	End Treatment (Concrete, Steel,	STEEL				
Wingwalls (Shape :)XXCutoff Wall X XBevel End77Heaving (mm)0 $-$ Invert Above/Below Stream BedBELOW $-$ Above/Below Stream BedBELOW $-$ Scour Protection66(Type : RIP RAP) (Avg. Rock Size(mm) : 300)66Scour/Frosion66Beavers (Y/N)No $-$ Downstream End General Rating66Culvert ComponentLastNowExplanation of Condition(Pipe # : 3, Span Type: Secondary Span)DirectionWLocated 3 m above and 15 m South of primary.Headwall $-$ 888	· · · · · · · · · · · · · · · · · · ·		Х	X		
$\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $	Collar		X	X		
Cutoff Wall X X X Bevel End 7 7 Heaving (mm) 0 7 Invert Above/Below Stream Bed BELOW 7 Above/Below (mm) 600 5 Scour Protection 6 6 (Type : RIP RAP) (Avg. Rock Size(mm) : 300) 5 Scour/Erosion 6 6 Beavers (Y/N) No 5 Downstream End General Rating 6 6 Cutvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) W Direction W Located 3 m above and 15 m South of primary. Headwall 8 8	Wingwalls		X	Х		
Image: Bevel End77Heaving (mm)0-Invert Above/Below Stream BedBELOW-Above/Below (mm)600-Scour Protection66(Type : RIP RAP)-(Avg. Rock Size(mm) : 300)-Scour/Erosion66Beavers (Y/N)No6Downstream End General Rating66EndCulvert ComponentLast(Pipe # : 3, Span Type: Secondry Span)WDirectionWLocated 3 m above and 15 m South of primary.Headwall88	(Shape :)					
$\begin{array}{ c c c } \medskip {\begin mm} & 0 & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Cutoff Wall		X	Х		
$\begin{array}{ llllllllllllllllllllllllllllllllllll$	Bevel End		7	7		
Above/Below (mm)600Image: Constant of the system of	Heaving (mm)	0				
Scour Protection 6 6 (Type : RIP RAP) (Avg. Rock Size(mm) : 300) (Avg. Rock Size(mm) : 300) Scour/Erosion 6 6 Beavers (Y/N) No 6 6 Downstream End General Rating 6 6 Culvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) Direction W Located 3 m above and 15 m South of primary. End Treatment (Concrete, Steel, CONCRETE 8 8 8	Invert Above/Below Stream Bed	BELOW				
(Type : RIP RAP) (Avg. Rock Size(mm) : 300) Scour/Erosion 6 6 Beavers (Y/N) No 6 6 Downstream End General Rating 6 6 6 Culvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) Direction W Located 3 m above and 15 m South of primary. End Treatment (Concrete, Steel, CONCRETE 8 8 8	Above/Below (mm)	600				
$\begin{tabular}{ c c c c } (Avg. Rock Size(mm) : 300) & & & & & & & & & & & & & & & & & & $	Scour Protection		6	6		
Scour/Erosion666Beavers (Y/N)No $I = V$ FeadbackDownstream End General Ratire666Culvert ComponentLastNowExplanation of Condition(Pipe # : 3, Span Type: Secondry Span)WLocated 3 m above and 15 m South of primary.DirectionMLocated 3 m above and 15 m South of primary.Headwall88	(Type : RIP RAP)					
Beavers (Y/N) No Image: Second and Second an	(Avg. Rock Size(mm) : 300)					
Downstream End General Rating66Culvert ComponentLastNowExplanation of ConditionCulvert ComponentLastNowExplanation of Condition(Pipe # : 3, Span Type: Secondary Span)WLocated 3 m above and 15 m South of primary.DirectionWLocated 3 m above and 15 m South of primary.End Treatment (Concrete, Steel, Others, None)CONCRETE88Headwall888	Scour/Erosion		6	6		
Culvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) V Explanation of Condition Direction W Located 3 m above and 15 m South of primary. End Treatment (Concrete, Steel, Others, None) CONCRETE V Headwall 8 8	Beavers (Y/N)	No				
Culvert ComponentLastNowExplanation of Condition(Pipe # : 3, Span Type: Secondary Span)WUnderstandUnderstandDirectionWUnderstandUnderstandUnderstandEnd Treatment (Concrete, Steel, Others, None)CONCRETEUnderstandUnderstandHeadwall888	Downstream End General Ratir	ıg	6	6		
Culvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) V Located 3 m above and 15 m South of primary. Direction W Located 3 m above and 15 m South of primary. End Treatment (Concrete, Steel, Others, None) CONCRETE Located 3 m above and 15 m South of primary. Headwall 8 8				Upstre	am End	
(Pipe # : 3, Span Type: Secondary Span) Direction W Located 3 m above and 15 m South of primary. End Treatment (Concrete, Steel, Others, None) CONCRETE	Culvert Component					
End Treatment (Concrete, Steel, ONCRETE Others, None) Headwall 8	(Pipe # : 3, Span Type: Second	ary Span)				
End Treatment (Concrete, Steel, ONCRETE CONCRETE Headwall 8	Direction		W		Located 3 m above and 15 m South of primary.	
Headwall 8 8	End Treatment (Concrete, Steel,	CONCRETE				
			8	8		
	Collar		X	Х		

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	5000			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating	1	8	8	
		Brid		lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN.			, Rise (mm): 760, Type: SSP)
Barrel Last Accessible Date	19-Jul-2000		_	
Special Features				
Special Feature				760 mm steel pipe liner grouted in original CSP.
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	Too small to enter - viewed from ends. Shape is good.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				1
Percent Deflection				
Floor		N	N	
Bulge (mm)				1
Measured At Ring No.				1
Abrasion (Y/N)				1
Circumferential Seams		N	N	Welded seams.
Separation (mm)	0			
Longitudinal Seams		X	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)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Brid	dae Cu	lvert Barrel	
ocation Code: MAI				
No			Minor.	
No				
Fish Passage Adequacy				
	Х	Х		
	6	6		
No				
No				
No				
	N	N		
	D			
	Last	Now	Explanation of Condition	
dary Span)				
	E			
CONCRETE				
	8	8		
Collar		Х		
	X	X		
	Х	X		
	7	7		
0				
ABOVE				
	7	7		
	7	7		
No				
ng	7	7		
	5	5	50 degree curve u/s.	
	5	5	Steep but stable.	
1.2			No visible HWM.	
	No Yes ZERO No No No No No No CONCRETE CONCRETE O ABOVE 5000	cation Code: MAIN, Span (r X No Yes ZERO No SERO No CONCRETE E CONCRETE Soloo ABOVE 5000 No No No No To ABOVE Soloo Image: To the state sta	NoyesJZEROJNoJNoSISXXXXNoANoINoNNoNNoNIII <td>Alias (nm): 760, Type: SSP)NoXXNoXXYesIZEROIINoIINoSINoSINoIINoIINoIINoIINoINoINoINoINoINoINoIII</td>	Alias (nm): 760, Type: SSP)NoXXNoXXYesIZEROIINoIINoSINoSINoIINoIINoIINoIINoINoINoINoINoINoINoIII

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

			Maintenance Reco	ommend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Comr	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	FF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	w)	66.7/66.	7 Sufficiency Rating (Last/No (%)			Est. Repl. Yr 2030		Maint. Reqd. (Y/N)		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 Garry		Roberts	P	revious Assistant's Name						
Next Inspection Date 26-D		-2014	P	Previous I	evious Inspection Date 14-Jun-2011					
Inspection Cycle (Default) (months) 21										
Comment										