					Brida	e Culve	ert Insp	ection					
Bridge File Nun	ber 07278 -1 Bridge Culvert						Form T		CUL1				
Year Built		1964			Lot No.		3						
Bridge or Town	ge or Town Name CARBON						Inspector Name		Owen Salava				
Located Over			RIBUTARY TO KNEEHILLS CREEK,					tor Class	BR CLS A				
		3.46.7,	WATERCRS-ST					Int Name					
Located On 836:02 C1 11.794							Assista	Int Class					
Water Body Cl./Year							Inspec	tion Date	11-May-2011				
Navigabil. Cl./Year							Data Entry By		Marcia Chavez				
Legal Land Location NE SEC 15 TWP 29 RGE 23 W4					4M		Data Entry Date		25-May-2011				
Longitude, Latitude -113:08:59, 51:29:19							Reviewer Name		John O'Brien				
Road Authority Alberta Transportation (AIT)				I (AIT)			Review Date		17-May-2011				
Contract Main. Area CMA21						Dept. Reviewer Name		Chris Black					
Clear Roadway	/Skew		2 deg. (LHF)				Dept. F	Review Date	27-May-2011				
AADT/Year			2010 (A)				Follow	-Uр Ву	, , , , , , , , , , , , , , , , , , ,				
Road Classifica		RCU-20	09-110										
Detour Length	· · · · · · · · · · · · · · · · · · ·	3											
Bridge Culvert		ation	4										
Number of Culv			1 Snon				Longth	Corr Drofile		Chara			
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1500		MP		34.1	68X13	2.8	ROUND		
Special Feature	es			1			0.11		1	-1			
Special Feature		ment											
					Uti	lities (L	ocated	at)					
Utility Attachme							-						
Telephone	North							Gas					
Power	ver Cross rd over pipe 3 wire O/H, then 4 v S.			vires O)H to	Munici							
Others							Proble	m (Y/N) No					
Remarks	3 wire	3 wire O/H-north r/w 20m from											
	center	rline.											
				Ar	oproac	h Road	d / Emb	ankment					
					-								
Horizontal Alignment					Last	Now	Explar	ation of Condi		(D)			
Vertical Alignment					5	5	Explar Interse	ation of Condi ction 5m W - E	end of Carbon.	(Parkland ave ail on South.).		
v	ent						Explar Interse	ation of Condi ction 5m W - E		(Parkland ave ail on South.).		
v	ent		9.300		5	5	Explar Interse	ation of Condi ction 5m W - E	end of Carbon.	(Parkland ave ail on South.).		
Roadway Width	ent		9.300		5	5	Explar Interse Gravel	ation of Cond ction 5m W - E sidewalk on Sc	end of Carbon.	ail on South.			
Roadway Width	ent า (m)		9.300		5 7	57	Explar Interse Gravel Bank fa	ation of Cond ction 5m W - E sidewalk on Sc	end of Carbon. uth with metal r	ail on South.			
Roadway Width Embankment Sideslope (ent n (m) _:1)	1.8)			5 7	57	Explar Interse Gravel Bank fa	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c	end of Carbon. uth with metal r	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co	ent n (m) _:1) ver(m) :	1.8)			5 7	57	Explar Interse Gravel Bank fa	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c	end of Carbon. uth with metal r	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N)	ent n (m) _:1) ver(m) :		3.0 Yes		5 7 7 7	5 7 4	Explar Interse Gravel Bank fa	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c	end of Carbon. uth with metal r	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N)	ent n (m) _:1) ver(m) :		3.0 Yes	ting	5 7	57	Explar Interse Gravel Bank fa	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c	end of Carbon. uth with metal r	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N)	ent n (m) _:1) ver(m) :		3.0 Yes	ting	5 7 7 5	5 7 4 5	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on So ailure to SE at c this time.	end of Carbon. uth with metal r	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N) Approach Roa	ent n (m) _:1) ver(m) : nd / Eml		3.0 Yes	ting	5 7 7 5	5 7 4 5 Upstre	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on So ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N) Approach Roa	ent n (m) _:1) ver(m) : nd / Eml		3.0 Yes	ting	5 7 7 5	5 7 4 5	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on So ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N) Approach Roa Culvert Compo Direction	ent n (m) _:1) ver(m) : nd / Eml	bankme	3.0 Yes ent General Ra	ting	5 7 7 5 Last	5 7 4 5 Upstre	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			
Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N) Approach Roa Culvert Compo Direction End Treatment	ent n (m) _:1) ver(m) : nd / Eml	bankme	3.0 Yes ent General Ra	ting	5 7 7 5 Last	5 7 4 5 Upstre	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			
Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) : nd / Eml	bankme	3.0 Yes ent General Ra	ting	5 7 7 5 Last	5 7 4 5 Upstre	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			
Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) : nd / Eml	bankme	3.0 Yes ent General Ra	ting	5 7 7 5 Last N	5 7 4 5 Upstre Now	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			
Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) : nd / Eml	bankme	3.0 Yes ent General Ra	ting	5 7 7 5 Last N	5 7 4 5 Upstre Now	Explar Interse Gravel Bank fa road at	ation of Condi ction 5m W - E sidewalk on Sc ailure to SE at c this time.	end of Carbon. uth with metal r r near old 900 c	ail on South.			

Alberta Transportation

			Upstre	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		Х	X							
Bevel End			5	Superficial rust on bevel.						
Heaving (mm)	leaving (mm) 100									
nvert Above/Below Stream Bed										
Above/Below (mm) 0										
Scour Protection		6	6							
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion			6							
Beavers (Y/N)	No									
Upstream End General Rating		5	5							
		Bric	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1500, Type: MP)						
Barrel Last Accessible Date	11-May-2011									
Special Features			-							
Special Feature										
(Type :)										
Special Feature										
(Type :)										
Roof		5	5							
Measured Rise (mm)	1410									
Measured At Ring No.	2									
Sag (mm)	90									
Percent Sag	6									
Sidewall		4	4	Minor 30mm bulge under SBL.						
Measured Span (mm)	1610									
Measured At Ring No.	2									
Deflection (mm)	110			7.3%						
Percent Deflection	7									
Floor		N	5							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	6							
Separation (mm)	60									
Longitudinal Seams		7	7	Riveted seams.						
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
Coating		4	4	Evidence of soil side corrosion.						
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)

07278 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm		, Rise (mm): 1500, Type: MP)
Ponding (Y/N)	Yes			
Fish Passage Adequacy		X	Х	
Baffle		X	X	
(Туре :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	1	4	4	
5				
Culvert Component			ownstr Now	eam End Explanation of Condition
Direction		S	110 11	
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	<u> </u>	X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)			^	
Cutoff Wall		X	X	
		^	^	
Bevel End		6	6	Minor superficial rust.
Heaving (mm)	0			
Invert Above/Below Stream Bed				-
Above/Below (mm)	3000			
Scour Protection		7	7	
(Type : GABION)				-
(Avg. Rock Size(mm) :)		-	-	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	6	6	
		s	1	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	U/S ditch bend 80 degree to inlet.
Bank Stability		7	7	
HWM (m below Top of Culvert)			-	HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			
Channel General Rating		6	6	

				Maintenance Re	ecommend	lations						
Inspector Recommendations		Year	Inspecto	or Comments		Department Comments				Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC)FF											
REPAIR SEAMS												
OTHER ACTION		2011	20m3 pit and palc	trun to repair SE bank slide.	Excavate							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		44.4/44.	.4 Sufficiency Rating (Last/ (%)		Now)	55.4/55.4	55.4 Est. Repl. Yr 2024		2024	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			E	Estimated Total	0	
Proposed Long-Term Strategy	2004.0	5.29 Culv	vert shoul	ld be good until 2024.		· · · · ·						
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Bryan	Bryan Wai Previo				s Assistant's Name						
Next Inspection Date	11-Aug-2014 Previous I					Inspection Date 25-Mar-2008						
Inspection Cycle (Default) (months)	39											
Comment												