Bridge Culvert Inspection												
Bridge File Nun	nber 7	70388 -1 Bridge Culvert				Form ⁻	Туре	CULM				
Year Built		1975				Lot No).	2				
Bridge or Town	Name I					Inspec	tor Name	Brian Pientsch				
Located Over	5	TRIBUT	TARY TO SOU	TH HEART RI	VER,	Inspec	tor Class	BR CLS A				
Located On		749:04	C1 15.359			Assista	ant Name	Lisbeth Medina				
Water Body CL	/Year					Assista	ant Class					
Navigabil, CL/Y	ear						tion Date	17-Nov-2010				
Legal Land Loc	ation \$	SW SEC 7 TWP 76 RGE 16 W5M				Data E	ntry By	Theresa Lacus	Theresa Lacusta			
Longitude, Latit	ude -	116:29	:05. 55:34:13			Data E	Data Entry Date 21-Dec-2010					
Road Authority	Road Authority Alberta Transportation (AIT)			(AIT)		Revie	wer Name	Arnold Assenheimer				
Contract Main. Area CMA06					- Review	N Date	20-Dec-2010					
Clear Roadway	/Skew 9	9.8 /				Dept.	Reviewer Name	24 Ech 2011	1			
AADT/Year	8	370 / 20	010 (A)			Eollow		24-Feb-2011				
Road Classifica	ition F	RCU-20	09-110			1 0110 W	-ор Бу					
Detour Length ((km) t	50										
Bridge Culvert	Informa	tion										
Number of Culv	rerts		2									
Pipe #	Barrel		Span	Rise (or Dia.	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1829	1118	FP		34.1	68X13	3.5	ARCH		
2	MAIN		1829	1118	FP		34.1	68X13	3.5	ARCH		
Special Feature	s											
Special Feature	es Comm	ent										
					Itilitios	(Locator	l at)					
Litility Attachme	onts						1 21 /					
Telephone	Along	Nest di	tch-7m from cl			Gas						
Power	, along i	root a				Munici	ipal					
Others						Proble	em (Y/N) No					
Remarks												
				Appro	ach Ro	ad / Emb	anlonant					
			Last Nov				ankment					
Horizontal Aligr	Horizontal Alignment			Las	1101	/ Explai	nation of Cond	ition				
Vertical Alignment				8	8	/ Explai	nation of Cond	ition				
	ent			8	8	/ Explai	nation of Cond	ition				
Roadway Width	ent n (m)		9.800	8	8	/ Explai	nation of Cond	ition				
Roadway Width Embankment	iment ent i (m)		9.800	8	8 8 7	/ Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope (:1)		9.800	8	8 8 7	v Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope ((m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	1.8)	9.800	8	8 8 7	v Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope (:1) ver(m) : *	1.8)	9.800 3.0 No	8	8 8 7	v Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope ((Height of Cor Guardrail (Y/N)	inent ent (m) <u>:1)</u> ver(m) : *	1.8) ankme	9.800 3.0 No nt General Rat	ing 8	7 8 8	v Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope (innent ent n (m) :1) ver(m) : *	1.8) ankme	9.800 3.0 No nt General Rat	ing 8	8 8 8 8 9 8	ream End	nation of Cond	ition				
Roadway Width Embankment Sideslope ((Height of Cor Guardrail (Y/N) Approach Roa	(m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	1.8) ankme	9.800 3.0 No nt General Rat	ing 8	8 Upst t Nov	ream Enc	nation of Cond	ition				
Roadway Width Embankment Sideslope (d / Emba	1.8) ankme	9.800 3.0 No nt General Rat	ing 8	8 8 7 4 8 8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ream Enc	nation of Cond	ition				
Roadway Width Embankment Sideslope (d / Emba	1.8) ankme : Prima	9.800 3.0 No nt General Rat	ing 8 Las	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ream End / Explai	nation of Cond nation of Cond nation of Cond	ition				
Roadway Width Embankment Sideslope (d / Emba onent an Type: (Concret	1.8) ankme : Prima te, Stee	9.800 3.0 No nt General Rat	ing 8	8 Upst t Nov	ream End / Explai	nation of Cond nation of Cond nation of Cond	ition				
Roadway Width Embankment Sideslope (d / Emba onent an Type:	1.8) ankme : Prima te, Stee	9.800 3.0 No nt General Rat	ing 8	1 1000 8 8 7 7 1 7 1 7 1 1000	ream End v Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope (d / Emba	1.8) ankme : Prima te, Stee	9.800 3.0 No nt General Rat	ing 8 Las W X X X	Image: Normal system 8 7 7 1 8 1 7 1 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ream End / Explai	nation of Cond	ition				
Roadway Width Embankment Sideslope (d / Emba onent (Concret	1.8) ankme : Prima te, Stee	9.800 3.0 No nt General Rat	ing 8 W X X X X X X	Nov 8 7 8 9 7 9 1000000000000000000000000000000000000	v Explai	nation of Cond nation of Cond pipe	ition				

	,		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		6	5	
Heaving (mm)	0		-	
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
Beavers (Y/N)	Yes			Beaverdam at end. (Photo)
Upstream End General Rating	1	6	5	
		Bri	d <u>ge Cu</u>	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	n): 1829), Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	17-Nov-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		N	6	Measurements not taken due to ice on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				-
Percent Sag			-	
Sidewall	1	N	6	-
Measured Span (mm)	1917			from d/s end
Measured At Ring No.	36			-
Deflection (mm)	88			-
Percent Deflection	5			
Floor	1	N	N	
Bulge (mm)				Under ice.
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	1	N	6	-
Separation (mm)	30			
Longitudinal Seams	1	Х	6	
Total No. of Cracked Rings				Rivetted
Total No. of Rings with Two Cracked Seams				-
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	4	Pitting rust lower 1/2.
Corrosion By Soil (Y/N)	Yes			Alkaline deposits through bolts and longitudinal seams.
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1829	, Rise (mm): 1118, Type: FP)				
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							
Fish Passage Adequacy		6	6					
Baffle		X	Х					
(Туре :)								
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	Yes							
Barrel General Rating		7	6					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	v Span)							
Direction		E		NORTH PIPE				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		X	X					
Wingwalls		X	X					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		6	5					
Heaving (mm)								
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	100		1					
Scour Protection		6	6					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		6	6					
Beavers (Y/N)	Yes			Beaver dam debris. (Photo)				
Downstream End General Ratin	ng	6	5					
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Direction		W		SOUTH PIPE				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	Х					
Collar		X	Х					
Wingwalls		X	X					
(Shape :)								
Cutoff Wall		X	X					

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1		1
Bevel End		6	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)			-	
Scour/Erosion		6	6	
Beavers (Y/N)	Yes			Beaverdam at end.(Photo)
Upstream End General Rating		6	5	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (I	nm): 18	329, Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	17-Nov-2010			SOUTH PIPE.
Special Features	l			
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	5	Measurements not taken due to ice and silt on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall	·	N	5	
Measured Span (mm)	1938			
Measured At Ring No.	36			
Deflection (mm)	109			
Percent Deflection	6			
Floor		N	2	Bulge located between ring 34-36.
Bulge (mm)	200			
Measured At Ring No.	35			
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	40			
Longitudinal Seams		X	6	
Total No. of Cracked Rings				Rivetted
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				
Coating		6	4	Pitting rust lower 1/3.
Corrosion By Soil (Y/N)	Yes			Alkaline deposits through bolts and longitudinal seams.
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	NEG			

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm): 18	329, Rise (mm): 1118, Type: FP)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		7	2	29% floor deflection.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		Е		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	Х	
Bevel End		6	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			-
Above/Below (mm)	100		-	
Scour Protection		6	6	
(Type : NATURAL)				-
(Avg. Rock Size(mm) :)		1	1	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		1	1	
Alignment		8	8	
Bank Stability		8	7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom	DEGRADING			At the d/s end
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			

Structure Usage								
Last Now Explanation of Condition								
Channel General Rating		8	8					

			Maintenance Red	commend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Com	iments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RA	AP									
REMOVE DRIFT ACCUMUL	ATION									
INSTALL CONCRETE/STEE	L LINING									
INSTALL STRUTS										
INSTALL CONCRETE COLL	AR/CUTOFF									
REPAIR SEAMS										_
OTHER ACTION		2010	Remove beaverdam debris in and arc ends.	ound both						
OTHER ACTION		2010	Program for replacement approx 5 ye	ears.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) 77.8/ (%)			2 Sufficiency Rating (Last/N (%)	low) 6	9.9/46.4	Est. Repl. Yr	2015	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Total	0	
Proposed Long-Term Strateg	ЭХ									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Bria	rian Pientsch P			Previous Assistant's Name Tim Miskiman					
Next Inspection Date	17-6	17-Feb-2014			Previous Inspection Date 25-Jul-2007					
Inspection Cycle (Default) (m	nonths) 39		· · · · · · · · · · · · · · · · · · ·			4				
Comment										