Bridge Culvert Inspection													
Bridge File Num	nber 7	79395 -	1 Bridge Culver			Form Type			CULM				
Year Built 198			1980							1			
Bridge or Town	Name /			Inspector Name			Jason Saly						
Located Over		ORNCLIFFE CREEK, 5.2.3, WATERCRS-					ctor Class BR CLS A						
Located On	8	884:18	:18 C1 22.787					nt Name					
Water Body Cl./	/Year						Assistant Class			28 Nov 2010			
Navigabil. Cl./Y	'ear						Data Entry By Marcia Chavez						
Legal Land Location SW SE			C 11 TWP 40 R	GE 8 W4	М		Data Entry Date 07-Jan-2011						
Longitude, Latitude -111:			:38, 52:25:36				Review	Reviewer Name John O'Brien					
Road Authority AI		Alberta	Transportation	(AIT)			Review Date		12-Dec-2010				
Contract Main. Area C		CMA22				Dept. Reviewer Name			Chris Black				
Clear Roadway	/Skew	10 /					Dept. Review Date 12- Jan-2011						
AADT/Year		220 / 20	009 (A)				Follow-	Up Bv	-				
Road Classifica	ation I	RAU-21	1.8-110					-1 5					
Detour Length (	(km) (	6											
Bridge Culvert	Informa	ation											
Number of Culv	/erts		2								1		
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1800		MP		26		75X25	2.8	ROUND	
2	MAIN		-	1800		MP		26		75X25	2.8	ROUND	
Special Feature	es												
Special Feature	es Comm	nent											
					Uti	ilities (I	ocated	at)					
Utility Attachme	ents					nuice (	courou	<i>atj</i>					
Telephone	West r/w. Gas												
Power	8W Cro	osses o	ver pipes. And i	.w.		Municip	al						
Others	Others						Probler	n (Y/N)	١o				
Remarks													
	Approach						l / Emba	Inkment					
					Last	Now	Explan	ation of C	ondit	ion			
Horizontal Align	nment				8	7	Approach 30m SW of S pipe. Bottom of valley.						
Vertical Alignme	ent				6	5	Dottom	or valicy.					
Roadway Width	n (m)		10.300										
Embankment				7	7	West side measured.							
Sideslope (	_:1)		3.0				Not measured thsi inspection.						
(Height of Cov	ver(m) : )	)											
Guardrail (Y/N)			No										
Approach Roa	d / Emba	ankme	nt General Rat	ing	6	5							
						Upstre	am Fnd						
Culvert Compo	Culvert Component				Last	Now	Explan	ation of C	ondit	ion			
(Pipe # : <b>1, Sp</b> a	an Type:	: Prima	ry Span)										
Direction				W		North -	primary						
End Treatment (Concrete, Steel, STEEL Others, None)					span.								
Headwall				Х	Х								
Collar			Х	Х									
Wingwalls				Х	Х								
(Shape : )													

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	y Span)		_						
Cutoff Wall		X	X						
Bevel End		N	N	(Metal screen installed - barrel not					
Heaving (mm)	0			accessible.) May 31, 2004					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100								
Scour Protection		N	N	Snow covered					
(Туре : )									
(Avg. Rock Size(mm) : )									
Scour/Erosion			N						
Beavers (Y/N)	No								
Upstream End General Rating		5	5	GR carried forward for several inspections.					
		Bri	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mn	n):	, Rise (mm): 1800, Type: MP)					
Barrel Last Accessible Date	15-May-1995			(No deflection noticed in roadway over pipe - appears stable. May 31/04). Ice to within 850 of roof.					
Special Features									
Special Feature									
(Type : )									
Special Feature									
(Туре : )									
Roof		N	N	Can see no change in dimensional measurements - will monitor.('95					
Measured Rise (mm)				comment).					
Measured At Ring No.									
Sag (mm)	400			22.2%					
Percent Sag	22								
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)	100								
Percent Deflection	6			5.5%					
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	N						
Separation (mm)	0								
Longitudinal Seams		X	Х						
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)									
Coating		N	4	Rating based on view from ends. Corrosion 2/3 up pipe.					
Corrosion By Soil (Y/N)				]					
Corrosion By Water (Y/N)	Yes								

Bridge Inspection & Maintenance System (Web 2005)

79395 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span			):	, Rise (mm): 1800, Type: MP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	Yes									
Fish Passage Adequacy		X	X							
Baffle		N	N							
(Туре : )										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		2	2	General rating carried over since 1995.						
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)	1								
Direction		E								
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall			X							
Collar	Collar									
Wingwalls			X							
(Shape : )										
Cutoff Wall		X	X							
Bevel End	1	N	5							
Heaving (mm)	0									
Invert Above/Below Stream Bed				Metal grate installed, barrel not						
Above/Below (mm)	0		1							
Scour Protection		N	N	Snow covered.						
(Type:)										
(Avg. Rock Size(mm) : )										
Scour/Erosion	l.	N	N	(Minor erosion on slopes beside pipe. May 31/04)						
Beavers (Y/N)	No		1	(Note: 750 mm silt & water at D/S. 31May2004).						
Downstream End General Rati	ng	5	5							
			Upstre	am End						
Culvert Component	Culvert Component			Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		W		Pipes are 85 m apart. Secondary pipe S. (Overflow pipe).						
End Treatment (Concrete, Steel, STEEL Others, None)										
Headwall		Х	X							
Collar		Х	X							
Wingwalls		Х	X							
(Shape : )										
Cutoff Wall		X	X							

			Upstre	tream End						
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Bevel End		7	7	Pallet wired across opening to stop cattle from entering pipe.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	100									
Scour Protection		N	N	Snow Covered						
(Туре : )										
(Avg. Rock Size(mm) : )										
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Upstream End General Rating		7	7							
		Brid	dae Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span. Lo	ocation Code: MAIN	N, Span (r	nm):	, Rise (mm): 1800, Type: MP)						
Barrel Last Accessible Date	28-Nov-2010									
Special Features										
Special Feature										
(Type:)										
Special Feature				-						
(Type : )										
Roof		4	5	Not able to measure due to ice						
Measured Rise (mm)			U							
Measured At Ring No				-						
Sag (mm)				Est. 100-125 sag.						
Percent Sag	7			-						
Sidewall	1.	7	6	Span measured at N end=1843 - 43 <sup>.</sup> Midpt =1870 - 70=3.9% <sup>.</sup> S						
Measured Span (mm)	1870		U	end=1825 - 25.						
Measured At Ring No	1010			-						
Deflection (mm)	70			-						
Percent Deflection	4			-						
Floor		N	N	lce						
Bulge (mm)	0									
Measured At Ring No										
Abrasion (Y/N)				1						
Circumferential Seams		6	6	Measured at Ring 2/3						
Separation (mm)	105	0	0							
Longitudinal Seams		Х	X							
Total No. of Cracked Rings				1						
Total No. of Rings with Two				1						
Cracked Seams				_						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Coating		5	5	Superficial corrosion mid way on sidewall						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1800, Type: MP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		5	5							
Baffle		N	Х							
(Type : )										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	5							
		D	ownsti	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		E								
End Treatment (Concrete, Steel, Others, None)	NONE									
Headwall		X	X							
Collar		X	X							
Wingwalls		X	X							
(Shape : )										
Cutoff Wall		X	X							
Bevel End		N	5	(Slightly damaged @ construction						
Heaving (mm)	0			(no problem).						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	Above/Below (mm) 100									
Scour Protection			N	Snow covered.						
(Туре : )										
(Avg. Rock Size(mm) : )										
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	6	5							
		s	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		6	6							
Bank Stability		7	7							
HWM (m below Top of Culvert)				No visible HWM						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		6	6							

Maintenance Recommendations												
Inspector Recomm	endations	•	Year	Inspecto	r Comments		Department Comr		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRE	ETE COLLAR/CUTO	DFF										
REPAIR SEAMS												
OTHER ACTION			2011	Dewater	and inspect barrel.							
OTHER ACTION												
OTHER ACTION												_
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			22.2/22.	2	Sufficiency Rating (Last/Now) (%)		41.8/41.8	Est. Repl. Yr	2021	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	nspection Dec2010	n, clean ).	barrel & p	berform Lvl 2 barrel ir	nspection. AT	Department Comments						
Maintenance Revie	ewed By						Date		E	stimated Total	0	
Proposed Long-Term Strategy Possik Rated		Possibly Rated 2	y elimina 2 for defle	ate cattle p ection. Sh	bass in future. Culver hape ok, good arching	rts good until 203 g. RS	0. Landower (Maki) ı	may want bigger s	tructure w	hen replaced fo	or livestock.	Culvert
On 3-Year Progran	n (Y/N)											
Proposed Action												
Previous Inspector's Name Garry		Garry R	Garry Roberts			Previous	Previous Assistant's Name					
Next Inspection Date 28-Fe		28-Feb-					Previous Inspection Date 23-Jan-2009					
Inspection Cycle (Default) (months) 39		39										
Comment												