Bridge Culvert Inspection													
Bridge File Nur	nber	86266 -	1 Bridge Culve				Form 7		CULM				
Year Built		1968					Lot No.		1	1			
Bridge or Town	Name	WATER	COURSE CUL	VERT ON	I HWY	′ 33	Inspec	tor Name	Russel Vanderschaaf				
Located Over		2ND OR	RDER TRIBUT	ARY TO S	WAN		· · ·	tor Class	BR CLS B				
								ant Name					
Located On		33:12 C	1 12.239				Assistant Class						
Water Body Cl.							tion Date	11-Feb-2013					
Navigabil. Cl./Y							ntry By	Theresa Lacu	Theresa Lacusta				
Legal Land Loc		C 9 TWP 67 RGE 9 W5M					ntry Date	10-Apr-2013	10-Apr-2013				
Longitude, Lati		3:10, 54:47:22					ver Name	Eric Carcoux					
Road Authority			Transportation	(AIT)			Reviev	v Date	07-Apr-2013				
Contract Main.		CMA06					Dept. F	Reviewer Name					
Clear Roadway	/Skew	11.4 /					Dept. F	Review Date					
AADT/Year		1,090 / 2	· · · ·				Follow	-Up By					
Road Classifica	ation	RAU-21	2-110				-						
Detour Length	. ,	12											
Bridge Culvert													
Number of Culv			2										
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1220		MP		73	68X13	2.8	ROUND		
2	MAIN		-	810		MP		70	68X13	2.8	ROUND		
Special Feature	es												
Special Feature	es Comi	ment											
					Uti	lities (L	ocated	at)					
Utility Attachme	ents						-						
Telephone							Gas						
Power							Municipal						
Others							Proble	m (Y/N) No					
Remarks													
				Ap				ankment	ition				
Harizantal Alia	mont				Last 7	Now 7	схріаі	nation of Cond					
Horizontal Align						7	•						
Vertical Alignm Roadway Width			11.400		7	1							
Roadway widtr	1 (11)		11.400										
Embankment					N	N	Erosio	n gully @ SW: 4	10m long, 0.5m	deep, 1m wide	. One:20m long,		
Sideslope (.:1)		4.0				0.3m wide, 0.6m deep @ NW:20m long, 0.3m deep, 0.6m wide29- Oct-2010						
(Height of Co	,	9)											
				1			Under	snow					
Guardrail (Y/N)			No										
Approach Roa	d / Eml	bankmer	nt General Rat	ing	7	7							
						Unstre	am End						
Culvert Comp	onent				Last		1	nation of Cond	ition				
(Pipe # : 1, Sp		e: Prima	ry Span)										
Direction	715		/		E		Bevel	end completely	submerged in s	now.			
End Treatment Others, None)	(Concre	ete, Stee	I, NONE		_		Bevel end completely submerged in snow. South pipe						
Headwall					Х	Х							
Collar					Х	X							
Oulai					~	^							

				am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		Х	Х	Snow cover				
Heaving (mm)								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection		N	N					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		N	N					
Beavers (Y/N)	No							
Upstream End General Rating	1	N	N	GR 7 - 29-Oct-2010				
		Brio	dqe Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1220, Type: MP)				
Barrel Last Accessible Date	29-Oct-2010		•	Culvert completely submerged in snow.				
Special Features	1							
Special Feature								
(Type :)								
Special Feature								
(Type :)								
Roof		N	N	near cl-29-Oct-2010				
Measured Rise (mm)	960							
Measured At Ring No.								
Sag (mm)	260							
Percent Sag	21							
Sidewall		N	N	near cl - 29-Oct-2010				
Measured Span (mm)	1410							
Measured At Ring No.								
Deflection (mm)	190							
Percent Deflection	16							
Floor		N	N					
Bulge (mm)				1				
Measured At Ring No.				1				
Abrasion (Y/N)				1				
Circumferential Seams		N	N					
Separation (mm)				1				
Longitudinal Seams		N	N	Rivetted seams - 29-Oct-2010				
Total No. of Cracked Rings				1				
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)				1				
Proper Lap (Y/N)				1				
Longitudinal Stagger (Y/N)				1				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

86266 -1 Bridge Culvert

		Brid	ae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN	, Span (mm)		, Rise (mm): 1220, Type: MP)
Coating		N	N	Superficial rust 5-7 o'clock.
Corrosion By Soil (Y/N)	Yes			Superficial rust noted on exterior @ u/s end29-Oct-2010
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		N	N	Hanging outlet 29-Oct-2010
Baffle		X	Х	
(Type :)				
Waterway Adequacy		N	N	D/S scour 29-Oct-2010
Icing (Y/N)	No			
Silting (Y/N)	No			1
Drift (Y/N)	No			1
Barrel General Rating		2	2	GR carried fwd.
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primar	y Span)			
Direction		W		North pipe
End Treatment (Concrete, Steel Others, None)	,			
Headwall			Х	
Collar			Х	
Wingwalls			Х	
(Shape :)				
Cutoff Wall			Х	
Bevel End	-		Ν	Snow covered
Heaving (mm)				
Invert Above/Below Stream Bed				Snow covered
Above/Below (mm)				
Scour Protection			Ν	
(Type : NONE)				-
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	Snow covered
Beavers (Y/N)	No			
Downstream End General Rat	ing		N	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secon	dary Span)			
Direction		E		North pipe
End Treatment (Concrete, Steel Others, None)	3			Snow covered
Headwall			X	
Collar			Х	

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Wingwalls			Х						
(Shape :)									
Cutoff Wall			Х						
Bevel End			N	Snow covered					
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection			N	Snow covered					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion			N	Snow covered					
Beavers (Y/N)	No								
Upstream End General Rating			N						
Orderent Or				Ivert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	span (r	nm):	, Rise (mm): 810, Type: MP)					
Barrel Last Accessible Date				Viewed from ends, shape looks adequate29-Oct-2010 Culvert completely submerged in snow.					
Special Features									
Special Feature									
(Type :)									
Special Feature									
(Туре :)									
Roof		N	N						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)									
Percent Deflection			1						
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)			1						
Circumferential Seams		N	N						
Separation (mm)									
Longitudinal Seams		N	N						
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)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 810, Type: MP)					
Coating		N	N						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG									
Ponding (Y/N)									
Fish Passage Adequacy		4	4	Hanging outlet-29-Oct-2009					
Baffle		Х	Х	-					
(Type :)									
Waterway Adequacy		N	N	D/S scour - 29-Oct-2010					
Icing (Y/N)									
Silting (Y/N)									
Drift (Y/N)									
Barrel General Rating		N	N						
		D	ownstr	ream 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			D/S ends completely submerged in snow.					
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		N	N						
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection		N	N						
(Type : NONE)				1					
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	N	4x4 scour hole29-Oct-2010					
Beavers (Y/N)	No								
Downstream End General Rati	ng	3	3	GR carried fwd.					
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		4	4	Flow inpinges on banks d/s.					
Bank Stability		5	5						
HWM (m below Top of Culvert)									
Drift (Y/N)	No								
				1					

Bridge Inspection & Maintenance System (Web 2005)

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading	DEGRADING			Couldn't tell due to snow.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

					Maintenance Re	commend	ations					
Inspector Recomme	endations		Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT A	CCUMULATION											
INSTALL CONCRE	TE/STEEL LINING											
INSTALL STRUTS												
INSTALL CONCRE	TE COLLAR/CUTC	OFF										
REPAIR SEAMS												
OTHER ACTION			2014	Replace								
OTHER ACTION			2013	Level 2								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION					1			1				
Structural Condition Rating (Last/Now) (%)			22.2/22.2 Sufficiency Rating (Last/ (%)			Now) 4	42.6/41.8 Est. Repl. Yr 2014			Maint. Reqd. (Y/N) Yes		
Special Comments for Next InspectionAssessment being completed in Low Rating Advisory sent to Ala 				aunders 06	6-Mar-2013. should be completed if pipe	isn't	Department Comments					
Maintenance Revie	wed By						Date		I	Estimated Total	0	
Proposed Long-Term Strategy							· · · · · ·					
On 3-Year Program	n (Y/N)											
Proposed Action												
Previous Inspector's Name Brian			Brian Pientsch				Previous Assistant's Name Lisbeth Medi					
Next Inspection Dat	te	11-No\	11-Nov-2014				Previous Inspection Date 05-Apr-2011					
Inspection Cycle (D		21										
Comment												