					lge (Culve	ert Insp						
Bridge File Nu			-1 Bridge Culve	rt			Form Type		CULM				
Year Built/Line	/ear Built/Lined 1965/2010 sridge or Town Name DONATVILLE						Lot No.		4				
	n Name						Inspector Name			Eric Carcoux			
Located Over			TARY TO PINE RCRS-ST	CREEK, 8.11	.55.5	5.6,	Inspector Class Assistant Name			BR CLS A			
Located On		63:01 C	C1 43.167					ant Class					
Water Body C	I./Year									13-Jan-2012			
Navigabil. Cl./	Year						Inspection Date Data Entry By		Theresa Lacu	eta			
Legal Land Lo	cation	SE SEC	C 3 TWP 67 RG	E 19 W4M			Data Entry Date		17-Jan-2012	Sia			
Longitude, Lat	titude	-112:48	3:10, 54:45:54				Reviewer Name			Arnold Assenheimer			
Road Authority	Road Authority Alberta 7 Contract Main. Area CMA07 Clear Roadway/Skew 11 /			(AIT)			Reviewer Name Review Date			16-Jan-2012	10111101		
			•						Name	Brent Herrick			
Clear Roadway/Skew 11 /							Review Da		18-Jan-2012				
AADT/Year 4,610 / 2010 (A)			2010 (A)					-Up By	210	10 0411 2012			
Road Classification RAU-211			11.8-110					Op Dy					
Detour Length	etour Length (km) 6												
Bridge Culve		ation											
Number of Cu	lverts		3										
Pipe #	Barrel		Span	Rise (or Dia.)	Ту	ype		Length		Corr. Profile	PI./Slab Thickness	Shape	
2	MAIN I	ULL	-	2200	М	Р		37		125X26	3.5	ROUND	
3	MAIN		-	1829	SS	SP		42				ROUND	
4	MAIN -		-	1829		SP		42				ROUND	
Special Featur	Special Features												
Special Featur		ment											
•													
				<u> </u>	Jtiliti	ies (L	ocated	at)					
Utility Attachm							Gas		I				
Telephone	West								30 m	north.			
Power		East r/v						pal	 				
Others	Fibre	optic Ea	st r/w.				Problem (Y/N) No						
Remarks				A		D	l / Emb						
				Appro Las		low		ankment		tion			
Horizontal Alig	nment									. Gradual rise to the north.			
Vertical Alignn				7		7 Slight bump over patche							
Vortioal 7 tilgrill						•							
Roadway Wid	th (m)		11.000										
Embankment				6		6							
Sideslope (_	:1)		4.0				1						
(Height of Co		1.2)					-						
Guardrail (Y/N		,	No										
Approach Ro	ad / Em	oankme	nt General Rat	ing 7		7							
						octro	am Enc						
Culvert Comp	onent			Las				nation of	Condi	tion			
(Pipe # : 2, S		e: Prima	ary Span)	Las			LAPIGI		Jonal				
Direction	<u> </u>		<i>y</i> = p =	E			Old co	ncrete en	d treat	ment still in pla	ce not at end	of pine	
End Treatmen Others, None)	t (Concr	ete, Stee	el, STEEL				1.00		ວαເ		- 5, at ond (F-F '	
Headwall				7		X							
. Iodavvan				1		^							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	y Span)			
Collar		7	Х	
Wingwalls		7	Х	
(Shape:)				
Cutoff Wall		N	Х	
Bevel End		7	7	
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		9	8	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		9	8	
Beavers (Y/N)	Yes			30m u/s.
Upstream End General Rating		7	7	
			T -	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Primary Span, Loca		n (mm) :	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	13-Jan-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	
Measured Rise (mm)	2150			(@ cl - 40 at 2010) ice on floor, - sag est.
Measured At Ring No.				lue off floor, - sag est.
Sag (mm)	50			
Percent Sag	2			
Sidewall		8	8	
Measured Span (mm)	2230			@ cl
Measured At Ring No.				
Deflection (mm)	30			
Percent Deflection	1			
Floor		9	N	Ice covered.
Bulge (mm)		3	IN	ice covered.
Measured At Ring No.				
Abrasion (Y/N)	No			
	INO	N.		
Circumferential Seams	<u> </u>	N	5	Internal couplers covering seams.
Separation (mm)				
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)				

		Brid	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2200, Type: MP)
Coating		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	Heaving/inlet above S.B.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Span Type: Primary	Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		9	8	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		9	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	9	8	
			Up <u>stre</u>	am End
Culvert Component				Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		Е		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		9	N	Ice covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		9	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		9	N	
Beavers (Y/N)	Yes			30m u/s
Upstream End General Rating		9	9	GR carried fwd from 04-Oct-2010
		Brid	dge Cu	ilvert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	ocation Code: MAIN, S	span (r	nm):	, Rise (mm): 1829, Type: SSP)
Barrel Last Accessible Date	04-Oct-2010			Ice to crown 400mm Shape looks good from ends.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	
Measured Rise (mm)	1800			Cl
Measured At Ring No.				
Sag (mm)	29			
Percent Sag	2			
Sidewall		9	N	
Measured Span (mm)	1820			cl
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		9	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	
Separation (mm)				
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two				1
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1829, Type: SSP)
Coating		7	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	N	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	110	8	N	GR was 8 on 04-Oct-2010
Barrer General Rating				GIX was 6 011 04-001-2010
		D		ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	ary Span)			
Direction		W		Ice over
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		9	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	9	9	GR carried over from 04-Oct-2010
			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 4, Span Type: Second	ary Span)			
Direction		Е		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Unctro	om End
Culvert Component				eam End Explanation of Condition
	lony Spon\	Last	INOW	Explanation of Condition
(Pipe # : 4, Span Type: Second	iary Span)			
Wingwalls		X	X	_
(Shape:)				
Cutoff Wall		X	X	
Bevel End		9	N	Ice over
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		9	N	Ice over
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				-
Scour/Erosion		9	N	
COGUITETOSION			'`	
Beavers (Y/N)	Yes			30m u/s.
Upstream End General Rating		9	9	GR carried over from 04-Oct-2010
		Bri	dge Cu	ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	cation Code: MAIN	I, Span (ı	mm):	, Rise (mm): 1829, Type: SSP)
Barrel Last Accessible Date	04-Oct-2010			Ice to crown 400mm Shape looks good from ends.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	cl
Measured Rise (mm)	1800		111	
Measured At Ring No.	1000			_
Sag (mm)	29			_
Percent Sag	2			_
Sidewall		9	N	
Measured Span (mm)	1920	9	IN	-
• • • • • • • • • • • • • • • • • • • •	1820			- cl
Measured At Ring No.				-
Deflection (mm) Percent Deflection				-
Floor		9	N	-
Bulge (mm)				-
Measured At Ring No.	NI -			-
Abrasion (Y/N)	No			
Circumferential Seams		8	N	_
Separation (mm)				<u> </u>
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)				

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 4, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1829, Type: SSP)
Coating		7	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	N	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	GR was 8 on 04-Oct-2010
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Second	lary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		9	N	Ice over
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	N	Ice over
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	N	Iced over
Beavers (Y/N)	No			
Downstream End General Ratio	ng	9	9	GR carried over from 04-Oct-2010
		S	tructu	re Usage
				Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Meanders both directions.
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading				Dams u/s & d/s.					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 : NONE)									
Channel General Rating			6						

		Maintenance	Recommend	ations					
Inspector Recommendations	Year	Inspector Comments	- Rossillione	Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							J		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 88.9/88	.9 Sufficiency Rating (La (%)	st/Now)	78.3/77.1	Est. Repl. Yr	2060	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date			Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Wade Nanning	a	Previous /	Assistant's Name					
Next Inspection Date	13-Oct-2013		Previous I	nspection Date	18-Oct-2010				
Inspection Cycle (Default) (months)	21								
Comment									