				Br	idae C	Culve	ert Inspection						
Bridge File Nur	mber	73834 -1	Bridge Culve				Form Type		CULM				
Year Built		1995		<u> </u>			Lot No.		2				
Bridge or Towr	n Name		LLY				Inspector Nan	ne	Brian Pientsch				
Located Over			DER TRIBUTA	ARY TO PEA	VINE	CK.	Inspector Class		BR CLS A				
			7.4.3.1, WATE				Assistant Nan		Brian Cote				
Located On		49:08 C	1 48.626				Assistant Class						
Water Body Cl	./Year						Inspection Da		07-Jul-2011				
Navigabil. Cl./\	Year						Data Entry By		Lisa Fairhurst				
Legal Land Loc	cation	SE SEC	2 TWP 78 RG	E 21 W5M			Data Entry Da		12-Aug-2011				
Longitude, Lati	itude	-117:08:	11, 55:43:24				Reviewer Nar						
Road Authority Alberta Transportation (AIT)				(AIT)				ile .	Arnold Assenheimer 13-Jul-2011				
Contract Main. Area CMA03				,			Review Date						
Clear Roadway/Skew 13.7 / -15 deg. (LHF)						·	Dept. Reviewer Name Steve Pasquan						
AADT/Year	<i>y,</i>	2,370 / 2					Dept. Review	Date	21-Nov-2011				
Road Classific	ation	RAU-213					Follow-Up By						
Detour Length		71					-						
Bridge Culver									I				
Number of Cul			<u> </u>										
Pipe #	Barrel		- Span	Rise (or Dia) T	/pe	Lengt	1	Corr. Profile	Pl./Slab	Shape		
i ipe #	Danei		эрап	INISE (OI DIA	., 1)	/pe	Lengu	ı	Con. I folile	Thickness	Shape		
1	MAIN	-		2200	М	Р	33		125X26	2.8	ROUND		
2	MAIN	-		2200	М	P	33		125X26	2.8	ROUND		
Special Feature	es												
Special Feature		ment											
,													
					Utiliti	es (L	ocated at)						
Utility Attachme	ents												
Telephone							Gas						
Power	3 OH	S R/W					Municipal						
Others							Problem (Y/N) No						
Remarks													
				Appr	oach	Road	d / Embankme	nt					
				La	st N	low	Explanation	of Condi	tion				
Horizontal Alig	nment				7	7	Hwy 2 JCT at	out 500r	n E.				
Vertical Alignm	nent				8	8	•						
Roadway Widt	h (m)		13.700										
Noauway Will	.11 (111)		13.700										
Embankment					7	7							
	:1)		5.0		7	7							
Sideslope (_	•	1.5)	5.0		7	7							
Sideslope ((Height of Co	over(m) :	1.5)			7	7	2 broken post	s S. r/w					
Sideslope ((Height of Co	over(m) :	1.5)	5.0 Yes		7	7	2 broken post	s S. r/w					
Sideslope (over(m) :		Yes		7	7 7	2 broken post	s S. r/w					
Sideslope (over(m) :		Yes		7	7		s S. r/w					
Sideslope (over(m) :) ad / Eml		Yes	ing	7 Ur	7 Ostre	am End						
Sideslope (over(m) :) ad / Eml	oankmen	Yes t General Rat		7 Ur	7			tion				
Sideslope (over(m) :) ad / Eml	oankmen	Yes t General Rat	ing La	7 Ur	7 Ostre	am End		tion				
Sideslope (over(m):) ad / Eml conent con Type	oankmen e: Primar	Yes t General Rat y Span)	ing	7 Ur	7 Ostre	am End		tion				
Sideslope (over(m):) ad / Eml conent con Type	oankmen e: Primar	Yes t General Rat y Span)	ing La	7 Ur	7 Ostre	am End Explanation o		tion				
	over(m):) ad / Eml conent con Type	oankmen e: Primar	Yes t General Rat y Span)	ing La	7 Ur	7 Ostre	am End Explanation o		tion				

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Wingwalls		Х	N	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	29-Oct-2009		<i>,</i>	Not accessible due to depth of water.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	Viewed from ends.
Measured Rise (mm)	2196			at cl
Measured At Ring No.				
Sag (mm)	4			est.
Percent Sag	0			
Sidewall		8	8	
Measured Span (mm)	2207			@cl
Measured At Ring No.				
Deflection (mm)	7			est.
Percent Deflection	0			
Floor		8	N	Water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	40			
Longitudinal Seams		Х	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)				

		Bric	lge Cu	lvert Barrel
Culvert Component		Last Now		Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2200, Type: MP)
Coating		4	4	Pitting below spring line.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Direction		S		W. pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			Inetro	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	_450		
Direction	,	N		E. pipe.
End Treatment (Concrete, Steel,	STEEL	1 4		PIPO.
Others, None)	OTELL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	29-Oct-2009			Not accessible due to depth of water.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Viewed form ends.
Measured Rise (mm)	2287			at cl
Measured At Ring No.				
Sag (mm)	87			upward deflection
Percent Sag	4			
Sidewall		8	8	
Measured Span (mm)	2197			at cl
Measured At Ring No.				
Deflection (mm)	3			inward deflectin
Percent Deflection	0			
Floor		7	N	Water.
Bulge (mm)				- Water
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	N	
Separation (mm)	20	'	I.V.	
Longitudinal Seams	_~	Х	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)				

		Brid	Bridge Culvert Barrel					
Culvert Component			Now	Explanation of Condition				
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2200, Type: MP)				
Coating		4	4	Pitting visable just below spring line				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		8	8					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
2 1 2 1 1 1 1 1 1 1				ream End				
Culvert Component	lama Caram)	Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)			F :				
Direction		S		E. pipe.				
End Treatment (Concrete, Steel, Others, None)	NONE							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		Х	Х					
Bevel End		7	5	Damaged by construction equipment.				
Heaving (mm)	0			Jamagod by concertation equipment				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500							
Scour Protection	000	7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 350)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	5					
			i Structu	re Usage				
			Now	Explanation of Condition				
Channel (U/S and D/S)	1							
Alignment		8	8					
Bank Stability		8	4	Scour hole 30 m/s u/s of inlet. Approx 3 x 3 x 1m.				
HWM (m below Top of Culvert)				HWM not visible.				
HWM (m below Top of Culvert) Drift (Y/N)	No			I IVVIVI HOL VISIDIE.				
Sint (1714)	1.10			4				

Structure Usage							
		Last	Now	Explanation of Condition			
Channel Bottom Degrading/Aggrading	NONE						
Beavers (Y/N)	No						
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating		8	4				

		M	aintananaa Baaamma	ndations					
Inspector Recommendations	Year	Inspector Comments	aintenance Recomme	Department Com	monts	Та	arget Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	I eai	Inspector Comments		Department Com	IIIIEIIIS	10	arget rear	ESI. COSI	Cal f
PLACE ADDITIONAL RIP RAP									+
REMOVE DRIFT ACCUMULATION									+
INSTALL CONCRETE/STEEL LINING									+
INSTALL STRUTS									+
INSTALL CONCRETE COLLAR/CUTO	OFF								+
REPAIR SEAMS									+
OTHER ACTION	2011	Repair GR posts							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	.8 Sufficiency (%)	Rating (Last/Now)	79.0/73.8	Est. Repl. Yr	2043	Maint. Red	qd. (Y/N)	Yes	
Special Monitor u/s scour he Comments for Next Inspection	ole.			Department Comments					
Maintenance Reviewed By				Date		Esti	mated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Shane Hall		Previou	ıs Assistant's Name					
Next Inspection Date	07-Apr-2013		Previou	s Inspection Date	29-Oct-2009				
Inspection Cycle (Default) (months)	21		<u> </u>						
Comment									