					Brida	e Culve	ert Insp	ection				
Bridge File Num	her					e cuive	ert Inspection Form Type		CUL1			
Year Built							Lot No.		4			
Bridge or Town Name PINE LAKE						Inspector Name		Owen Salava				
Located Over TRAIL-ANIMAL, OVER SP							· ·		BR CLS A			
Located Over TRAIL-ANIMAL, OVER SF Located On 42:08 C1 24.899							Inspector Class Assistant Name		BR CL3 A			
Water Body Cl./Year												
							Assistant Class					
Navigabil. Cl./Ye							Inspection Date		26-Nov-2012			
Legal Land Location NW SEC 28 TWP 36 RGE 25 W4					41/1		Data Entry By		Marcia Chavez			
Longitude, Latitude -113:31:14, 52:07:27							Data Entry Date Reviewer Name		13-Dec-2012			
Road Authority Alberta Transportation (AIT)				(AIT))				John O'Brien			
Contract Main. A		CMA19					Review Date		04-Dec-2012			
Clear Roadway/	Skew	10.8 /					· ·		Andrew Smikle	es		
AADT/Year		2,020 /	2011 (A)					Review Date	17-Dec-2012			
Road Classificat	tion	RAU-21	1.8-110				Follow-	-Uр Ву				
Detour Length (k	km)	15										
Bridge Culvert	Inform	ation										
Number of Culve	erts		1									
· .	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1724	1901		SPE		30.3	152X51	3.0	ELLIPSE	
Special Features	S											
Posted Vertical (, i i i i i i i i i i i i i i i i i i i										
Posted: Lane Remarks Utility Attachmer Telephone	NB nts South	On E	Bridge (m)	In Adv			_ocated Gas	at)	Dn Bridge (m)	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power	NB nts South	On E	Bridge (m)	In Adv			_ocated Gas Municip	at)	Dn Bridge (m)	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others	NB nts South	On E	Bridge (m)	In Adv			_ocated Gas Municip	at)	on Bridge (m)	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power	NB nts South	On E	Bridge (m)		Uti	lities (L	Gas Municiț Probler	at) pal m (Y/N) No	Dn Bridge (m)	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others	NB nts South	On E	Bridge (m)		Uti	lities (L	Gas Municip Probler	at) Dal m (Y/N) No ankment		In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks	NB nts South N side	On E	Bridge (m)		Uti oproad Last	lities (L	Gas Municip Probler d / Emba	at) Dal m (Y/N) No ankment nation of Condi		In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others	NB nts South N side	On E	Bridge (m)		Uti	lities (L	Gas Municip Probler d / Emba Explan No pas Hill W s Road o	at) Dal m (Y/N) No ankment	tion	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks	NB nts South N side ment ent	On E	Bridge (m)		Uti oproac Last 9	lities (L ch Road Now 9	Gas Municip Probler d / Emba Explan No pas Hill W s	at) pal m (Y/N) No ankment mation of Condi using WB. side. Limited sig	tion	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignme	NB nts South N side ment ent	On E	20m c/l.		Uti oproac Last 9	lities (L ch Road Now 9	Gas Municip Probler d / Emba Explan No pas Hill W s Road o	at) pal m (Y/N) No ankment mation of Condi using WB. side. Limited sig	tion	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignr Vertical Alignme Roadway Width Embankment	NB South N side ment (m)	On E	20m c/l.		Uti oproad Last 9 6	lities (L ch Road Now 9 6	Gas Municip Probler d / Emba Explan No pas Hill W s Road o	at) pal m (Y/N) No ankment mation of Condi using WB. side. Limited sig	tion	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Vertical Alignme Roadway Width Embankment Sideslope (:	NB Ints South N side ment (m) :1)	On E r/w. e 3 wire 2	Bridge (m) 20m c/l. 10.800		Uti oproad Last 9 6	lities (L ch Road Now 9 6	Gas Municip Probler d / Emba Explan No pas Hill W s Road o	at) pal m (Y/N) No ankment mation of Condi using WB. side. Limited sig	tion	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Vertical Alignme Roadway Width Embankment Sideslope (: (Height of Cov	NB Ints South N side ment (m) :1)	On E r/w. e 3 wire 2	Bridge (m) 20m c/l. 10.800 3.0		Uti oproad Last 9 6	lities (L ch Road Now 9 6	Gas Municip Probler d / Emba Explan No pas Hill W s Road o	at) pal m (Y/N) No ankment mation of Condi using WB. side. Limited sig	tion	In Advar		
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Vertical Alignme Roadway Width Embankment Sideslope (: (Height of Cov Guardrail (Y/N)	NB South N side ment ent (m) :1) ver(m) :	On E	Bridge (m) 20m c/l. 10.800 3.0 Yes		Uti oproad Last 9 6	lities (L ch Road Now 9 6	Gas Municip Probler d / Emba Explan No pas Hill W s Road o	at) pal m (Y/N) No ankment mation of Condi using WB. side. Limited sig	tion	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Vertical Alignme Roadway Width Embankment Sideslope (: (Height of Cov	NB South N side ment ent (m) :1) ver(m) :	On E	Bridge (m) 20m c/l. 10.800 3.0 Yes		Uti pproac Last 9 6 7 7 6	lities (L h Road Now 9 6 7 6	Gas Municip Probler d / Emba Explan No pas Hill W s Road o West.	at) pal m (Y/N) No ankment pation of Condi ising WB. side. Limited sig iver pipe is on u	tion	In Advar		
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignme Roadway Width Embankment Sideslope (: (Height of Cov Guardrail (Y/N)	NB South N side ment (m) (m) (m) (m) (m) (m) (m) (m)	On E	Bridge (m) 20m c/l. 10.800 3.0 Yes		Uti oproad Last 9 6 7 6	lities (L Now 9 6 7	Gas Municip Probler d / Emba Explan No pas Hill W s Road c West.	at) bal m (Y/N) No ankment bation of Condi using WB. side. Limited sig over pipe is on u	tion ht distance. phill grade to	In Advar		
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Roadway Width Embankment Sideslope (: (Height of Cov Guardrail (Y/N) Approach Roac	NB South N side ment (m) (m) (m) (m) (m) (m) (m) (m)	On E	Bridge (m) 20m c/l. 10.800 3.0 Yes		Uti pproad Last 9 6 7 7 6 Last	lities (L h Road Now 9 6 7 6	Gas Municip Probler d / Emba Explan No pas Hill W s Road c West.	at) pal m (Y/N) No ankment pation of Condi ising WB. side. Limited sig iver pipe is on u	tion ht distance. phill grade to	In Advar	nce (Y/N)	
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Vertical Alignme Roadway Width Embankment Sideslope (: (Height of Cov Guardrail (Y/N) Approach Roac Culvert Compor Direction End Treatment (NB South N side ment ent (m) :1) /er(m) : d / Emb	On E	20m c/l. 20m c/l. 10.800 3.0 Yes nt General Rat		Uti oproad Last 9 6 7 6	lities (L Now 9 6 7	Gas Municip Probler d / Emba Explan No pas Hill W s Road c West.	at) bal m (Y/N) No ankment bation of Condi using WB. side. Limited sig over pipe is on u	tion ht distance. phill grade to	In Advar		
Posted: Lane Remarks Utility Attachmer Telephone Power Others Remarks Horizontal Alignre Roadway Width Embankment Sideslope (: (Height of Cov Guardrail (Y/N) Approach Roac	NB South N side ment ent (m) :1) /er(m) : d / Emb	On E	20m c/l. 20m c/l. 10.800 3.0 Yes nt General Rat		Uti pproad Last 9 6 7 7 6 Last	lities (L Now 9 6 7	Gas Municip Probler d / Emba Explan No pas Hill W s Road c West.	at) bal m (Y/N) No ankment bation of Condi using WB. side. Limited sig over pipe is on u	tion ht distance. phill grade to	In Advar	nce (Y/N)	

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		X	Х	Sidewall bent on W side.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	250			
Scour Protection		6	N	Takes some drainage.
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Upstream End General Rating	·	6	6	GR carried forward from 12Apr2011.
		Brid	d <u>ge Cu</u>	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			
Barrel Last Accessible Date	26-Nov-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Туре :)				
Roof		7	7	Unable to measured due to concrete floor.
Measured Rise (mm)				_
Measured At Ring No.				
Sag (mm)				_
Percent Sag	0			
Sidewall		6	5	Minor deformation at NW end (photo).
Measured Span (mm)	1735			See longit. seams.
Measured At Ring No.	8			
Deflection (mm)	11			
Percent Deflection	0			
Floor		N	N	Concrete & silt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		5	5	Two seams at 5 o'clock have loose
Total No. of Cracked Rings	0			bolts with no ill affects.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm						
Coating		7	7					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	No							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		Х	Х					
Baffle		Х	Х					
(Type :)								
Waterway Adequacy		5	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		5	5					
		П	ownstr	eam End				
Culvert Component		1	Now	Explanation of Condition				
Direction		S	non					
End Treatment (Concrete, Steel, Others, None)	NONE							
Headwall		Х	X					
Collar		Х	X					
Wingwalls		Х	X					
(Shape :)		1						
Cutoff Wall		X	X					
Bevel End		Х	X					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	350							
Scour Protection		6	6	Takes some drainage.				
(Type : NATURAL)			Ŭ					
(Avg. Rock Size(mm) :)								
Scour/Erosion		6	6					
Beavers (Y/N)	No							
Downstream End General Ratir	ng	6	6					
		\$	Str <u>uctur</u>	e Usage				
		Last		Explanation of Condition				
Grade Separation								
Road Alignment		5	5	Floor is 350 mm above path but does				
Roadway Surface		7	7	not appear to have affected passage.				
(Type : CONCRETE)								
Icing (Y/N)	No							
Traffic Safety Features	<u></u>	Х	Х					
Туре	None							
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1				

Structure Usage								
		Last	Now	Explanation of Condition				
Lighting		X	X					
Barrel Leakage (Y/N)	No							
Drainage		8	8					
Structure In Use (Y/N)	No			Fence removed, N side. Lease site to S.				
Grade Separation General Rating			5					

			Maintenance Rec	commend	lations					
Inspector Recommendations		Year	Inspector Comments		Department Comments				Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	FF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		55.6/55.	6 Sufficiency Rating (Last/N (%)	ow)	52.8/56.2	Est. Repl. Yr 2031		Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen S	Salava		Previous .	Previous Assistant's Name					
Next Inspection Date 26-A		-2014		Previous	revious Inspection Date 12-Apr-2011					
Inspection Cycle (Default) (months)	21									
Comment										