Bridge Culvert Inspection													
Bridge File Number 7390		73904 -	3904 -1 Bridge Culvert				Form Type			CULM			
Year Built		1953					Lot No.			2			
Bridge or Town	Name	LINDBE	RGH				Inspector Name		Todd Warshawski				
Located Over		FROG	CREEK, 6.7, W	ATERCR	S-ST		Inspector Class			BR CLS B			
Located On		897:08	C1 8.384			Assistar	Assistant Name						
Water Body Cl./Year							Assistant Class						
Navigabil. CI./Y	'ear					Inspection	on Date		14-Dec-2011				
Legal Land Loc	ation	SW SE	EC 16 TWP 56 RGE 3 W4M				Data Entry By			Theresa Lacusta			
Longitude, Latitude -110:2		-110:24	4:05, 53:50:09				Data En	try Date		14-Jan-2012			
Road Authority Alb		Alberta	Transportation	(AIT)			Reviewe	Reviewer Name		Eric Carcoux			
Contract Main. Area CMA		CMA08					Review	Date		04-Jan-2012			
Clear Roadway	/Skew	9.6/30	deg. (RHF)				Dept. Re	eviewer	Name	Brent Herrick			
AADT/Year		1,280 /	2010 (A)				Dept. Re	eview Da	ate	18-Jan-2012			
Road Classifica	ation	RCU-20	09-110				Follow-L	Јр Ву					
Detour Length	(km)	10											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Гуре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1810		SP		59.7		152X51	3.0.3.0.2.8	ROUND	
2	MAIN		-	1500		SP		56.1		152X51	3.0.3.0.2.8	ROUND	
Special Feature	es												
Special Feature	es Comr	nent											
					Uti	ilities (L	_ocated a	at)					
Utility Attachme	ents												
Telephone	West I	/w.			Gas								
Power	4 wire	s East r/	w.				Municipa	al					
Others	thers Fiber optics East r/w.						Problem	n (Y/N)	No				
Remarks	BF tag	j installe	d on top of Eas	t end roo	f, Nortl	n pipe.							
				A		Now	Explanation of Condition						
Horizontal Alian	ment				Lasi	7			Field	entrance to No	rth Intersection	to South	
Vertical Alignm	ent				6	6							
						0							
Roadway Width	ו (m)		9.600				wide transverse crack			over pipe, -photo.			
Embankment						5	SE ditch erosion $5 \times 1 \times 0.5$ Well vegetated SW ditch ersosion 20×10^{-10}						
Sideslope (:1)		3.0				3 x 2m.	3 x 2m. Well vegetated.					
(Height of Co	ver(m) :	6.8)					1						
Guardrail (Y/N)			No										
Approach Roa	d / Emb	ankme	nt General Rat	ing	6	6							
						Unstre	am End						
Culvert Compo	onent				Last	Now	Explana	ation of	Condit	ion			
(Pipe # : 1, Sp	an Type	: Prima	ry Span)			1							
Direction				F		North cu	ilvert.						
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			X	X									
Collar					X	Х							
Wingwalls					X	Х	1						
(Shape :)													

Culvert Component		Leat	Now	all and
(Pipe # : 1 Span Type: Primary	(Span)	Last	NOW	
Cutoff Woll		V	V	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	vert Above/Below Stream Bed BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	Well vegetated.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
			<u> </u>	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 1810, Type: SP)
Barrel Last Accessible Date	10-Aug-2008			Not accessible. Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature				
Special Feature				
(Type :)				
Roof		6	N	
Measured Rise (mm)	1760	0	IN	
Measured At Ring No	1700			
Sag (mm)	50			
Percent Sag	3			
Sidewall	0	5	N	
Measured Span (mm)	1885	5	IN	
Measured At Ring No				
Deflection (mm)	75			
Percent Deflection	4			
Floor	•	N	N	1m og water/ice
Bulge (mm)	0	14	14	
Measured At Ring No	-			
Abrasion (Y/N)	No			
Circumferential Seams		4	N	Many loose holts on several seams -Aug 2008
Separation (mm)	0	7	14	
Longitudinal Seams		Δ	N	Loose holts on some seams. Portions of lower seam under
Total No. of Cracked Rings	0		11	silt/waterAug, 2008
Total No. of Rings with Two	V			
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	N	Superficial rust lower 1/2AUg, 2008
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last Now		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1810, Type: SP)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N) Yes									
Fish Passage Adequacy			5						
Baffle			Х						
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	No			Remnants of dam in barrel at d/s bevel.					
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		4	4	GEneral rating carried fwd from Aug, 2008					
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	v Span)								
Direction	0	W		North culvert.					
End Treatment (Concrete, Steel, Others, None)	STEEL		N						
Headwall		X	X						
Collar			X						
Wingwalls		X	X						
(Shape :)			1						
Cutoff Wall		X	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	250		1						
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion	1	/	/						
Beavers (Y/N)	Yes								
Downstream End General Ratin	ng	7	7						
			Upstre	am End					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)	1							
Direction		E		South culvert.					
End Treatment (Concrete, Steel, STEEL Others, None)									
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	X						
(Shape :)			1						
Cutoff Wall			X						

Bridge Inspection & Maintenance System (Web 2005)

73904 -1 Bridge Culvert

	1		Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Bevel End		6	6	Couple dents and tear 30mm.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE			Bevel section rotated 10 degrees.				
Above/Below (mm)	1050							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Unstream End General Rating		6	6					
	1	Bri	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (mm):	, Rise (mm): 1500, Type: SP)				
Barrel Last Accessible Date	14-Dec-2011							
On a sial Fasture -								
Special Features								
				-				
				-				
(Type:)								
Roof		6	6	Measured near c/L pipe is elipsed at ends				
Measured Rise (mm)	1450							
Measured At Ring No.	9			-				
Sag (mm)	50			-				
Percent Sag	2							
Sidewall	1	6	6	-				
Measured Span (mm)	1530			_				
Measured At Ring No.	9			_				
Deflection (mm)	30			_				
Percent Deflection	2							
Floor		N	N	0.3m silt on floor.				
Bulge (mm)	0			_				
Measured At Ring No.				_				
Abrasion (Y/N)	No							
Circumferential Seams		6	6					
Separation (mm)	0							
Longitudinal Seams		6	6					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No							
Coating		5	5	Superficial rust lower 1/2.				
Corrosion By Soil (Y/N)				1				
Corrosion By Water (Y/N)	Yes			1				
Camber POS/ZERO/NEG	NEG							

Bridge Inspection & Maintenance System (Web 2005)

73904 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1500, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			X	Overflow pipe					
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		6	6						
			ownet	zoom End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # 2, Span Type: Second	lary Span)	Last	NOW						
Direction		W/		South culvert					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar			Х						
Wingwalls		Х	Х	_					
(Shape :)									
Cutoff Wall		X	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	900		-						
Scour Protection		7	7						
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 300)		1	-						
Scour/Erosion		7	7						
Beavers (Y/N)	Yes								
Downstream End General Ratio	ng	7	7						
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		Last	140 W						
Alignment			7	Channel skewed 30 degree RHF to both U/S and D/S ends.					
Bank Stability			8						
HW/M (m below Top of Culuert)				HW/M pot visible					
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	Yes			1					

Structure Usage										
	Last	Now	Explanation of Condition							
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)										
Channel General Rating 7 7										

			Maintenance Re	commend	ations						
Inspector Recommendations		Year	Inspector Comments		Department Cor	mments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION		2012	Remove drift from outlet on N pipe.								
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										_
REPAIR SEAMS											_
OTHER ACTION											_
OTHER ACTION											
OTHER ACTION											_
OTHER ACTION											
Structural Condition Rating (Last/No.	w)	44.4/44.4 Sufficiency Rating (%)		low) 5	52.1/52.2	Est. Repl. Yr 2025		2025	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date			E	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Dave		Dave Lam			Previous Assistant's Name						
Next Inspection Date	14-Mar-2015			Previous Inspection Date 10-Aug-2008							
Inspection Cycle (Default) (months)	39										
Comment											