					Brida	ie Culve	ert Insp	ection					
Bridge File Number 74421 -1 Bridge Culvert				71165		Culvert Inspection Form Type		CUL1					
Year Built 1960						Lot No	•	4					
Bridge or Town Name PARKLAND BE			ND BEA	D BEA			1	tor Name	Jon Davies				
Located Over		TRIBUTARY TO MOSQUITO CREEK,						tor Class	BR CLS B				
		2.12.12.1	2.12.12.12.3, WATERCRS-ST					Assistant Name					
Located On	17.003;2:10 L	7.003;2:10 L1 16.951			Assistant Class								
Water Body Cl./Year							Inspection Date 18-Oct-2011						
Navigabil. Cl./Year						Data Entry By		Erin Roberts					
		SE SEC	SEC 36 TMD 15 DGE 28 M/4M					intry Date		21-Nov-2011			
Longitude, Latitude -11		-113:43:0	-113.43.08 50.18.00					ver Name	Garry Roberts				
·		Alberta T	Ilberta Transportation (AIT)					v Date	08-Nov-2011	,			
Contract Main. Area CMA26		CMA26	ne -					Reviewer Nam	e Tim Davies	-			
Clear Roadwa	y/Skew	26 / -30 d	deg. (LHF)				Dept. Review Date		25-Nov-2011				
AADT/Year		8,630 / 2	010 (A)				Follow-Up By			20 1107 2011			
Road Classific	ation	RAD-412	412.4-120				. Silott Op Dy						
Detour Length	(km)	1											
Bridge Culver		nation											
Number of Cu	lverts	1											
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	2	610	2880		SPE	93.9		152X51	3.0	ELLIPSE		
Special Featur	res												
Special Featur		ment											
•													
					Ut	ilities (L	ocated	at)					
Utility Attachm	ents												
Telephone East r/w.							Gas						
Power							Municipal						
Others Fibre optics @ West and East r/w							Proble	m (Y/N) No					
Remarks													
				Aŗ	_			ankment					
							Explanation of Condition						
Horizontal Alignment			6	6	CURVE 100 m SOUTH								
Vertical Alignment			9	8									
Roadway Widt	in (m)		26.000										
Embankment				7	7	At Wes	East old R/R						
Sideslope (_	_:1)		1.0				embankment						
(Height of Co	· ·	: 5.1)					1						
Guardrail (Y/N		,	Yes					West side only					
Approach Ro	ad / Eml	bankmen	t General Rat	ing	6	6							
						linctro	am Eng						
Culvert Comp	onont				Last	Upstre Now		nation of Con	dition				
Culvert Component Direction			W	140W	WEST		uitiOii						
End Treatment (Concrete, Steel, STEEL		VV		VVLST									
Others, None) Headwall					X	X							
Collar			X	X									
			X										
Wingwalls (Shape :)			Χ	X	-								
(Shape:)			V	V									
Cutoff Wall				X	X								

74421 -1 Bridge Culvert

			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	5						
Heaving (mm)	200								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		5	5	Avg 300 mm rock settled up to 300 mm below top of bevel.					
(Type : RIP RAP)		'	_	Gabions at SW corner extending up along ditch					
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		5	5						
	ı								
Beavers (Y/N)	No								
Unatroom End Conoral Pating		5	5						
Upstream End General Rating		3	3						
		Bri	dge Cu	livert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN,	Span (mm	n): 2610), Rise (mm): 2880, Type: SPE)					
Barrel Last Accessible Date	18-Oct-2011								
Special Features									
Special Feature				Only able to enter pipe to 3/4 l. Due to high water level					
(Type:)				- Due to high water level					
Special Feature									
(Type:)			_						
Roof		5	5	R20 Rise = 2750mm					
Measured Rise (mm)	2727								
Measured At Ring No.	7								
Sag (mm)	153								
Percent Sag	5								
Sidewall		5	5	R20 Span= 2765mm					
Measured Span (mm)	2780								
Measured At Ring No.	7								
Deflection (mm)	170								
Percent Deflection	7								
Floor		N	N	(Ice to 1.8 of roof) 26-Jan-2010					
Bulge (mm)									
Measured At Ring No.				⊣ High water level │P.R. N					
Abrasion (Y/N)									
Circumferential Seams		7	7						
Separation (mm)	0			-					
Longitudinal Seams	-	6	6	Lower seams under water					
Total No. of Cracked Rings	0	0	J						
Total No. of Rings with Two Cracked Seams	0			(ring #7 has improper lap - only.) 26-Jan-2010 ALL RINGS HAVE STAGGER EXCEPT #1 TO #6					
Min. Remaining Steel Between Cracks (mm)	0			792.12.13.11.10.00.00					
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		5	5	Soil staining at upper seams and plates					
Corrosion By Soil (Y/N)	Yes	J		SUPERFICÍAL CÓRROSION @ WATERLINE, AND @ D/S LOWER					
Corrosion By Water (Y/N)	Yes			CIRCUMFERENTIAL SEAMS AND ISOLATED AREAS OF SIDEWALL))					
Camber POS/ZERO/NEG	ZERO			//					
Camber 1 CO/ZERO/NEG	ZLINO								
Ponding (Y/N)	Yes			d/s empties into dugout					

		Brid	dge Cu	Ivert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2610, Rise (mm): 2880, Type: SPE)									
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		5	5	(@ d/s 1/3 ice within 1m of roof) 26-Jan-2010					
Icing (Y/N)	Yes			(Ice is within 800mm of roof @ d/s end) 26-Jan-2010					
Silting (Y/N)	No			- (ide is within 600mm of 1001 @ 0/3 end) 20-3411-2010					
Drift (Y/N)	No								
Barrel General Rating		5 5							
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	Direction			East d/s end butts against concrete					
End Treatment (Concrete, Steel, Others, None)	CONCRETE			arch culvert for CPR tracks. Drainage between tracks and NBL through a riser opening					
Headwall		5	5						
Collar		Х	X						
Wingwalls		5	5	D/S end is now the East end of the CPR arch structure					
(Shape:)									
(Shape:) Cutoff Wall Bevel End		X	X						
Bevel End		Х	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			Unable to determine new d/s invert height due to water level					
Above/Below (mm)	300								
Scour Protection		5	5						
(Type : RIP RAP)									
(Avg. Rock Size(mm): 300)									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	5	5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	5	Inlet dammed u/s for dugout 30 m u/s. Outlet at CPR structure into dugout Dam and dugout at d/s end.					
Bank Stability		5	5						
HWM (m below Top of Culvert) 1.0				(Grass on bolts @ 1:00 position) 26-Jan-2010					
Drift (Y/N)	No			No HWM visible					
Channel Bottom Degrading/Aggrading AGGRADING									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	5						

			Mainten	ance Recommer	dations					
Inspector Recommendations	Yea	ar Insp	ector Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 55.	6/55.6	Sufficiency Ratin (%)	g (Last/Now)	54.8/54.1	Est. Repl. Yr	2031	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Stimated Tota	I 0	-
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Robe	erts		Previous	Assistant's Name					
Next Inspection Date	18-Jul-201	3		Previous	Inspection Date	26-Jan-2010				
Inspection Cycle (Default) (months)	21									
Comment										