Bridge Culvert Inspection														
Bridge File Nur	mber	77489	-1 Bridge Culve	rt			Form			CUL1				
Year Built 1977			1 2 1 a go o a 11 o 11				Lot No.			1				
Bridge or Town Name KANANAS			ASKIS				Inspector Name			Garry Roberts				
Located Over		RIPPLI	E ROCK CK, 2.1	13.56.16,			Inspector Class			BR CLS A				
1			RCRS-ST				Assistant Name							
Located On	Δ.	40:12 (	C1 4.232				Assistant Class							
Water Body Cl.							Inspection Date			01-Apr-2013				
Navigabil. Cl./Y		0)4/ 05	:0 4 TMD 04 D	DE 0 14/58			Data E	intry By		Lauren Korte				
				jE 9 ₩5N	/I		Data E	ntry Date		11-Apr-2013				
				(AIT)			Reviev	ver Name		Tom Carey				
1 MAIN - Special Features Special Features Comment			(AII)			Review Date			10-Apr-2013					
Clear Roadway/Skew 11.5 / 10 c		) dog (DUE)				Dept. Reviewer Name			Tim Davies					
AADT/Year 1,690 / 20		•				Dept. Review Date		06-May-2013						
Road Classification RAU							Follow-Up By							
Detour Length (km) 50			09-110		-									
		1												
		iation	1											
			Span	Rise (or	Dia )	Туре		Length		Corr. Profile	PI./Slab	Shape		
т ъс н	Darror		Оран	14130 (01	Dia.,	Турс		Longin		Con. I Tomic	Thickness	Опарс		
1	MAIN		-	4574		SP		61.5		152X51	4.2	ROUND		
Special Feature	es													
Special Feature	es Com	ment												
					l I+i	lities (L	ocated	at)						
Utility Attachme	ents				J.1	) <b>DOI</b>	<u>-ooutoc</u>	ut)						
							Gas							
Utility Attachments  Telephone  Power East ROW.  Others				Munici	nal									
Power East ROW. Others							m (Y/N)	No						
Remarks								( ' )						
				Aj	pproac	ch Road	d / Emb	ankment						
					Last	Now	Explai	nation of	Condi	tion				
Horizontal Alignment				7	7	-								
Vertical Alignment				6	6									
Roadway Width (m)		11.500	11.500											
Embankment					6	1:1 SW corner of pipe.								
Sideslope (	_:1)		2.0				1		• •					
(Height of Co	ver(m)	: 4)												
Guardrail (Y/N)	)		Yes	Yes			Broken post SE corner. Several with minor damage from plows.							
Approach Roa	ad / Em	bankme	ent General Rat	ing	6	6								
						Heatre		1						
Culvert Comp	onent				Last	Upstre Now		nation of	Condi	tion				
Direction	OHEHL				E	INOW	LAPIAI	iation or	Contai	tion				
End Treatment Others, None)	(Concr	ete, Ste	el, STEEL		_		-							
Headwall					Х	X								
Collar			Х	X										
Wingwalls			Х	X										
(Shape: )														
Cutoff Wall			X	X										

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	5	Some damage to sides of bevel - minor.					
Heaving (mm)	100			Large rocks laying in bevel 600mm high.					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : <b>500</b> )									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Upstream End General Rating		5	5						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm		, Rise (mm): 4574, Type: SP)					
Barrel Last Accessible Date	01-Apr-2013			Inlet span 4410, outlet span 4652.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)		<u> </u>							
Roof		5	3	Localized reverse curvature in R13-R14.					
Measured Rise (mm)	4100			Could not confirm vice due to ice					
Measured At Ring No.	13			Could not confirm rise due to ice.					
Sag (mm)	324								
Percent Sag	7								
Sidewall		4	4	@ R-14. diag span 4080-inward from localized bulge.					
Measured Span (mm)	4993			1					
Measured At Ring No.	12			4083 measured at 2011 inspection- no change.					
Deflection (mm)	419			Shape is adequate except for R14 localized bulge.					
Percent Deflection	9								
Floor	U	4	N	(Floor bulge of 150mm @ R13 & R14.					
Bulge (mm)	150	4	IN	Longitudinal floor seam with missing nuts).					
Measured At Ring No.	14			1.7m of ice on floor.					
Abrasion (Y/N)	Yes			37 100 011 11001.					
	1 53	1	Α	Circ coom @ ring 2 with 2 graphs 90mm					
Circumferential Seams		4	4	Circ seam @ ring 3 with 3 cracks 80mm 85mm & 45m longno change at 2013 inspection.					
Separation (mm)	20			Suspect cracking @ cusping seams					
Longitudinal Seams		4	4	Ring 13 North sidewall - 100mm rem steel					
Total No. of Cracked Rings	1			7 bolts cracked (14 nuts missing @ R-13 floor seam).					
Total No. of Rings with Two Cracked Seams	0			No change in crack growth this inspection.					
Min. Remaining Steel Between Cracks (mm)	100								
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		4	4	Corrosion throughout floor and bevels with pitting.					
Corrosion By Soil (Y/N)	No			Soil staining at upper seams.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

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		Bric	ige Cu	lvert Barrel				
		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 4574, Type: SP)				
Fish Passage Adequacy		5	5					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		4	3					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		X	X					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		Х	X					
Bevel End		5	5	Bevel is pushing inward at top of				
Heaving (mm)	200			bevel @ South - 200mm.				
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	300							
Scour Protection		5	5	300mm DP scour of end of bevel.  Rock in scour hole.				
(Type : RIP RAP)				Rock in scoul noie.				
(Avg. Rock Size(mm) : 300)			1					
Scour/Erosion		5	5					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	5	5					
			1	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)			T _					
Alignment		7	7					
Bank Stability		5	5	Steep banks.				
HWM (m below Top of Culvert)	1.0			No visible HWM.				
Drift (Y/N) No								
Channel Bottom Degrading/Aggrading	DEGRADING			At D/S.				
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	·							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		5	7					

		Maintenanc	e Recommendati	tions					
Inspector Recommendations	Year	Inspector Comments		Department Comme	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS				-,			<b>_</b>		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	2025	3000-3500 liner- possibly in D/S	rings only.						
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Replace SE GR Post.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 44.4/33	44.4/33.3 Sufficiency Rating (Lastre)		.7/51.5 E	st. Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Special Cracks appear to hon regular cycle. C	ave stabilized o ontinue 3500 lin	ver last several inspections. Contir er in future,		Department Comments					
Maintenance Reviewed By			Г	Date		E	stimated Tota	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous As	Assistant's Name					
Next Inspection Date	01-Jan-2015		Previous Ins	Previous Inspection Date 26-May-2011					
Inspection Cycle (Default) (months)	21				,				
Comment									