					Brida	e Culve	art Insn	ection						
Bridge File Number 74512 -1 Bridge Culvert					Bridge Cuive		ert Inspection Form Type			CUL1				
Year Built							Lot No.			4				
Bridge or Town Name ELKWATER								tor Name		Tom Carey				
Located Over	i Nume			S CREEK	271	0	· · · · · · · · · · · · · · · · · · ·	tor Class		BR CLS A				
		WATERO	CRS-ST	OREER	, 2.7.1			ant Name						
WATERCRS-ST occated On 515:02 C1 2.915 Vater Body CI./Year lavigabil. Cl./Year egal Land Location SE SEC 2 TWP 10 RGE 3 W4 congitude, Latitude -110:18:11, 49:47:10 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA23 Clear Roadway/Skew 10.4 / ADT/Year 80 / 2011 (A) Road Classification RCU-209-110 Detour Length (km) 6 Stridge Culvert Information 1 Jumber of Culverts 1 Pipe # Barrel Span Rise (o MAIN MAIN 1737 Special Features I Special Features I Special Features I Seedal Features I Special Features I </td <td></td> <td></td> <td></td> <td colspan="2">Assistant Class</td> <td></td> <td></td> <td></td>						Assistant Class								
							Inspec	tion Date		13-Mar-2012				
							· · ·	ntry By		Erin Roberts				
		SE SEC	2 TWP 10 RG	E 3 W4M				ntry Date		08-Apr-2012				
Longitude, Lati	tude	-110:18:1	11, 49:47:10					ver Name		Garry Roberts				
Contract Main. Area CMA23							Reviev	v Date		25-Mar-2012				
							Dept. F	Reviewer N	ame	Tim Davies				
							Dept. Review Date			17-Apr-2012				
AADT/Year 80 / 2011 (A			I (A)	(A)				Follow-Up By						
Road Classifica	Road Classification RCU-209-110													
Detour Length	(km)	6												
Bridge Culvert	t Inform	nation												
Number of Culv	verts	1						1		I	1			
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	737	1920		SPE		28.4		152X51	2.8,2.8,2.8	ELLIPSE		
Special Feature	es													
Special Feature	es Comi	ment												
					Ut	liities (L	ocated	at)						
· · · · · · · · · · · · · · · · · · ·		ditab					Gas							
	-							Municipal						
	1 line	crossing i	road 100m Ea	St.										
							Problem (Y/N) No							
Remarks				٨	oprog	ch Poa	d / Emb	ankmont						
							/ Embankment Explanation of Condition							
Horizontal Alignment			9	9	Poor sight distance to East & road rises to West & East.									
				5	5									
Roadway Width (m)			10.400		0	0								
Embankment					N	7								
	:1)		3.0											
• •		1.5)	0.0		1									
Guardrail (Y/N)			No											
Approach Roa	ad / Eml	bankmen	t General Rat	ing	5	5								
				-			am End							
Culvert Comp	onent				Last			nation of C	ondi	tion				
Direction	enon				S	110 W	South		unun					
End Treatment	(Concre	ete. Steel	STEEL		0									
Others, None)														
Headwall					X	X								
Collar			Х	X										
Wingwalls					X	Х								
(Shape :)														
Cutoff Wall					X	X								

Alberta Transportation

			linstra	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	4	3 bolts missing on floor.
Heaving (mm)	50			Minor rusting on floor.
Invert Above/Below Stream Bed				
Above/Below (mm)	200			
Scour Protection	1	N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	d <u>ge Cu</u>	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 1737	7, Rise (mm): 1920, Type: SPE)
Barrel Last Accessible Date	13-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				_
(Type:)				
Roof		N	7	
Measured Rise (mm)	1845			
Measured At Ring No.	8			-
Sag (mm)	75			
Percent Sag	4			
Sidewall		N	7	5th ring from U/S has rock indent and hole and rust on surface.
Measured Span (mm)	1763			_
Measured At Ring No.	8			-
Deflection (mm)	26			-
Percent Deflection	2			
Floor	1	N	5	-
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No		-	
Circumferential Seams		N	5	Some bolts missing or not tight.
Separation (mm)	0			
Longitudinal Seams		N	5	Some not nestled well, 10mm gap D/S ring.
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams	0			-
Min. Remaining Steel Between Cracks (mm)				-
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes		_	
Coating		N	5	Alkali at bolts. Surface corrosion at floor.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			
Fish Passage Adequacy		X	Х	
Baffle		X	X	
(Type:)			^	
		NI	7	
Waterway Adequacy Icing (Y/N)	No	N	7	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
Barrei General Kating		N	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	1	N		North
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		X	Х	
Wingwalls	Wingwalls			
(Shape :)				
Cutoff Wall			X	
Bevel End		N	7	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1	-	
Scour/Erosion	Scour/Erosion			
Beavers (Y/N)	Beavers (Y/N) No			
Downstream End General Ratin	ng	5	7	
		S	Structu	re Usage
		1	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			8	
Bank Stability			8	
HWM (m below Top of Culvert)				
Drift (Y/N) No				1
Channel Bottom Degrading/Aggrading				
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	1			
(Fish Compensation Measure 2 :				1
Channel General Rating			8	

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Com		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
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/Now) (%)		55.6/55.	6 Sufficiency Rating (Last/N (%)	ow) 7	70.1/65.9	Est. Repl. Yr 2020		Maint. Reqd. (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	Tim Da	Fim Davies			Previous Assistant's Name							
Next Inspection Date 13-J		13-Jun-2015			Previous Inspection Date 12-Mar-2009							
Inspection Cycle (Default) (months) 39												
Comment												