Bridge Culvert Inspection													
Bridge File Number 77397 -1 Bridge Culvert						Form Type		CUL1					
Year Built 1971						Lot No.		4					
Bridge or Town Name CAMROSE							Inspector Name		Owen Salava				
Located Over	NIMAL, OVER SP				Inspector	Class	BR CLS A						
Located On 13:10 C1 28.777							Assistant	Name					
Water Body Cl.						Class							
Navigabil. Cl./Year							Inspection	n Date	27-Jun-2012				
Legal Land Loc	ation	SE SEC					Data Entry	у Ву	Marcia Chavez				
			:04, 53:01:04	Ļ			Data Entry	y Date	15-Jul-2012				
			Transportatio	on (AIT)			Reviewer	Name	John O'Brien				
Contract Main.	Area	CMA16					Review Da	v Date 05-Jul-2012					
Clear Roadway	/Skew	15 /					Dept. Rev	Dept. Reviewer Name Andrew Smikles					
AADT/Year 9,330 / 2			2011 (A)				Dept. Rev	iew Date	19-Jul-2012				
Road Classifica	ation	RAU-21	3.4-120				Follow-Up By						
Detour Length	(km)	6											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		1						1				
Pipe #	Barrel	:	Span	Rise (or	Dia.)	Туре	Le	ength	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2400		MP	29	9.3	68X13	4.0	ROUND		
Special Feature	es												
Special Feature	es Comn	nent											
Posting Information Required Vert. Clearance Posting (m)													
Posted Vertical													
Posted: Lane			, Bridge (m)	In Adv	/ance (`	V/NI)	Land	e SB C	n Bridge (m)		ice (Y/N)		
Remarks		quired.				1/11)	Lan			III/Advar			
Romano	110110	quirou.			l Iti	lities (l	_ocated at)						
Utility Attachme	ents						looutou utj						
Telephone Attached to West side of pipe.							Gas						
Power			orth of c/l.	-			Municipal						
Others							Problem (Y/N) Yes						
Remarks							· · · · · ·						
				Α	pproac	h Road	d / Embank	kment					
					Last	Now	Explanati	on of Condi	tion				
Horizontal Aligr	nment				6	6	Access road 50m West. Curve to West.						
Vertical Alignm	ent			9	9	Lane merges over pipe.							
Roadway Width	ר (m)		14.000										
Embankment					7	7	North end						
Sideslope (	_:1)		3.5										
(Height of Co	ver(m) :	<b>0.8</b> )					1						
Guardrail (Y/N)			Yes										
Approach Road / Embankment General Rating					6	6							
						Upstre	am End						
Culvert Component				Now		Explanation of Condition							
Direction					N								
End Treatment (Concrete, Steel, S Others, None)		I, STEEL											
Headwall					Х	X							
Collar		Collar			Х	Х							

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls		X	X							
(Shape : )										
Cutoff Wall		Х	X							
Bevel End		N N		(Heavy corrosion with pitting. 12Feb2009).						
Heaving (mm)	0			Bevel sides under water.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	1000									
Scour Protection		6	6	Well grassed.						
(Type : <b>NATURAL</b> )										
(Avg. Rock Size(mm) : )										
Scour/Erosion		6	6	No erosion due to no flow.						
Beavers (Y/N)	No									
Upstream End General Rating		4	4	GR carried forward from 12Feb2009.						
		Brid	d <u>ge Cu</u>	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2400, Type: MP)						
Barrel Last Accessible Date	12-Feb-2009			Viewed from ends. water to 0.7m from roof, shape OK.						
Special Features										
Special Feature										
(Type:)				_						
Special Feature										
(Type : )			_							
Roof	1	N	N	(80mm roof sag estimated. 95/05/08). (Roof seam separates @ 2/3 length from South end but fill does not						
Measured Rise (mm)				leak through - photo. 12Feb2009).						
Measured At Ring No.				-						
Sag (mm) 80				-						
Percent Sag										
Sidewall		N	N	(Can only see top half of sidewall. Heavy corrosion with pitting to midpoint of sidewall. 12Feb2009).						
Measured Span (mm)	2370									
<b>v</b>	asured At Ring No. 2			-						
Deflection (mm)	30			1						
Percent Deflection	1									
Floor		N	N	Under water.						
Bulge (mm)				-						
Measured At Ring No.				-						
Abrasion (Y/N)										
Circumferential Seams	70	N	N	(Rusting at 2nd seam from South & East side. 12Feb2009).						
Separation (mm)	70		N N							
Longitudinal Seams		Х	X	-						
Total No. of Cracked Rings				-						
Total No. of Rings with Two Cracked Seams				_						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)				-						
Longitudinal Stagger (Y/N)			_							
Coating		N	N	(Heavy corrosion with pitting to midpoint of sidewall. 30Aug2010).						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77397 -1 Bridge Culvert

		Brid	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	):	, Rise (mm): 2400, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			0.7m water to roof
Fish Passage Adequacy			X	Not a watercourse.
Baffle		X	X	
(Type:)				
Waterway Adequacy		5	5	Not built for drainage.
Icing (Y/N)	Yes		-	
Silting (Y/N)	No			- (Silt 400 mm. 12Feb2009).
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried forward from 12Feb2009.
		D	ownsti	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			Х	
Collar			Х	
Wingwalls			X	
(Shape : )				
Cutoff Wall			Х	
Bevel End		N	N	Bevel cut under water.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		6	6	
(Type : NATURAL)				_
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ration	ng	4	4	GR carried forward from 12Feb2009.
		S	tructu	re Usage
			Now	Explanation of Condition
Grade Separation				
Road Alignment			5	
Roadway Surface			N	
(Type:)				
Icing (Y/N) Yes				
Traffic Safety Features		Х	Х	
Туре				1
		X	Х	
Lighting				

## Bridge Inspection & Maintenance System (Web 2005)

Structure Usage									
		Last	Now	Explanation of Condition					
Drainage			3	Poor drainage - pipe is set too low.					
Structure In Use (Y/N) No				Pipe is below surrounding land. Cattlepass has been abandoned as water ponding in barrel & at both ends up to 1.7m deep.					
Grade Separation General Rating			3						

Maintenance Recommendations											
Inspector Recommendation	Year	Inspecto	or Comments		Department Cor	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP	RAP										
REMOVE DRIFT ACCUM	ULATION										
INSTALL CONCRETE/ST	EEL LINING										
INSTALL STRUTS											
INSTALL CONCRETE CO											
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rat (%)	ting (Last/Now)	44.4/44.	4	Sufficiency Rating (Last/ (%)	Now)	41.3/41.3	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	No
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed B	у					Date	Estimated Total 0				
Proposed Long-Term Strategy		2004.09.24 Culvert appears to handle some drainage. Monitor at next BIM. Estimated Replacement year 2020. Remove with next road work & install culvert for drainage as required assuming no longer used.									ork &
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name		Owen Salava			Previous	Previous Assistant's Name					
Next Inspection Date		27-Mar-2014			Previous	us Inspection Date 30-Aug-2010					
Inspection Cycle (Default) (months)											
Comment											