Bridge Culvert Inspection															
Bridge File Number 76428 -1			-1 Bridge Culvert				Form Type			CUL1					
Year Built 1966							Lot No.			4					
Bridge or Town Name ERSKINE			NE				Inspector Name			Owen Salava					
Located Over TRAIL-AN			-ANIMAL, OVER SP				Inspector Class			BR CLS A					
Located On 12:12 C1			21 38.327				Assista	nt Name	;						
Water Body Cl.	/Year						Assista	Assistant Class							
Navigabil. CI./Y	'ear						Inspect	Inspection Date 31-Aug-2012							
Legal Land Loc	ation	SW SE	C 5 TWP 3	39 RGI	E 20 W4	łM		Data E	ta Entry By Marcia Chavez						
Longitude, Latit	tude	-112:51	2:51:18, 52:19:14					Data Entry Date			04-Oct-2012				
Road Authority Alberta		Alberta	erta Transportation (AIT)					Review	er Name	)	John O'Brien				
Contract Main.	Area	CMA20	A20					Review Date			06-Sep-2012				
Clear Roadway	/Skew	13.4 /						Dept. Reviewer Name			Andrew Smikles				
AADT/Year		4,530 /	2011 (A)					Dept. Review Date			16-Oct-2012				
Road Classifica	ation	RAU-21	13.4-120					Follow-Up By							
Detour Length	(km)	18													
Bridge Culvert	Inform	ation													
Number of Culv	/erts		1												
Pipe #	Barrel		Span	F	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1778	2	2311		RPP		26.2		152X51	3.5	PIPE ARCH		
Special Feature	es		CONC FL	OOR											
Special Feature	es Comr	nent													
								_							
	Clearer	aa Daati	in a. (ma)			Po	sting li	nformati	on						
Required Vert.	Clearan		ing (m)												
Posted Vertical Clearance (Y/N)				ابه ۸ مار		<b>V</b> /NI)	Lano SB On Pridge (m) In Advance (V/N)								
Osteu     Lane     NB     On Bridge (m)     In Advance (Y/N)     Lane     SB     On Bridge (m)     In Advance (Y/N)       Remarka     Net required     Net req     Net req     Net req															
Kemarks Not required.   Utilities (Located at)															
Utility Attachme	ents														
Telephone							Gas								
Power	Crosses 100m West.							Municip	bal						
Others								Probler	n (Y/N)	No	lo				
Remarks															
1					A	pproad	ch Roa	d / Emba	ankment	ł					
						Last	Now	Explan	ation of	Condi	tion				
Horizontal Aligr	nment					5	5	In a cui	In a curve. Superelevated with crest curve to West limited sight distance						
Vertical Alignm	ent					7	7	Supersievated with erest duve to vvest, inflited sight distance.							
Roadway Width	ה (m)		13.400				-	Transverse crack over pipe.							
Embankment					6	6									
Sideslope (	_:1)		3.5					_							
(Height of Co	ver(m) :	<b>0.5</b> )													
Guardrail (Y/N)			Yes												
Approach Roa	d / Emb	bankme	nt Genera	l Ratir	ng	5	5								
Upstream End															
Culvert Component				L		Last Now		ation of	Condi	tion					
Direction						Ν									
End Treatment (Concrete, Steel, NON Others, None)			el, NONE												
Headwall						Х	Х								
Collar						X	Х								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls			X							
(Shape : )										
Cutoff Wall		Х	X							
Bevel End		Х	X	Square end. Gate across barrel.						
Heaving (mm)				Mower damage to roof.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection		5	5							
(Type : <b>NATURAL</b> )										
(Avg. Rock Size(mm) : )										
Scour/Erosion		5	5							
Beavers (Y/N)	No									
Upstream End General Rating	1	5	5							
		Brid		Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 1778	B Rise (mm): 2311, Type: RPP)						
Barrel Last Accessible Date	31-Aug-2012		<u>,</u>							
Special Features										
Special Feature			N	Concrete floor. Covered by dirt.						
(Type : CONC FLOOR)			-	_						
Special Feature										
(Туре : )										
Roof		N	4	Construction damage with localized bulge and tears in roof both ends						
Measured Rise (mm)				- minor.						
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidewall		N	6	Bent at South end in approx 150mm (photo).						
Measured Span (mm)	1760									
Measured At Ring No.	6			Inward.						
Deflection (mm)	18									
Percent Deflection	1									
Floor		N	N	Covered by concrete floor & dirt. No sign of problems.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	5							
Separation (mm)	0									
Longitudinal Seams		N	5							
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)	No									
Coating		N	5	Calcium staining on top seam both ends under sideslope.						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76428 -1 Bridge Culvert

		Brid	dge Cul	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1778	, Rise (mm): 2311, Type: RPP)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N) Yes				Low point collecting ditch run-off.					
Fish Passage Adequacy	-	Х	X						
Baffle		Х	X						
(Туре : )									
Waterway Adequacy		X	Х						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No		_						
Barrel General Rating		4	4						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	NONE	S							
Others, None)	NONE		1						
Headwall		X	X						
Collar		Х	X						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall		Х	Х						
Bevel End		Х	Х	Square end bent at W side.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		5	5						
(Type : <b>NATURAL</b> )									
(Avg. Rock Size(mm) : )									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	5						
		s	Structur	e Usage					
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment		5	5	South end has been bent restricting the opening by 150mm.					
Roadway Surface			7						
(Type : CONCRETE)									
Icing (Y/N) No									
Traffic Safety Features		X	Х						
Type None									
Lighting			Х						
Barrel Leakage (Y/N)	No		1						

Structure Usage										
		Last	Now	Explanation of Condition						
Drainage			4	Collecting point for surface drainage.						
Structure In Use (Y/N) Yes										
Grade Separation General Rating			4							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comr		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	44.4/44.	4 Sufficiency Rating (Last/N (%)	low) t	<b>57.5/57.5</b> Est. Repl. Yr 2028		2028	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)	Ν											
Proposed Action	2006.1	0.25 Rev	view site again in 2 years for continued									
Previous Inspector's Name Ow		Salava		Previous Assistant's Name								
Next Inspection Date 37		31-May-2014			Previous Inspection Date 26-Aug-2010							
Inspection Cycle (Default) (months) 2												
Comment												