				Brida	e Culve	ert Insp	ection							
Bridge File Number 71685 -1 Bridge Culvert						Form Type			CUL1					
Year Built	1953					Lot No.			1					
Bridge or Town Name						Inspector Name			Owen Salava					
Located Over						Inspector Class Assistant Name			BR CLS A					
Located On	13:16 C1 0.456					Assistant Class								
Water Body Cl./Year						Inspection Date			28 km 2012					
Navigabil. Cl./Year								28-Jun-2012 Marcia Chavez						
Legal Land Location	SW SEC	16 TWP 44 R	RGE 13 W4	M		Data Entry Date			15-Jul-2012					
Longitude, Latitude -111:50:07, 52:47:31						Reviewer Name			John O'Brien					
Road Authority Alberta Transportation (AIT)						Review Date			05-Jul-2012					
Contract Main. Area CMA16									Andrew Smikles					
Clear Roadway/Skew	10.5 / -30	deg. (LHF)				Dept. Review Date			19-Jul-2012					
AADT/Year	2,110 / 20	011 (A)				· ·		19-501-2012						
Road Classification	RAU-211	.8-110				Follow-Up By								
Detour Length (km) 2														
Bridge Culvert Inform	nation													
Number of Culverts 1														
Pipe # Barrel	S	pan	Rise (or D)ia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1 MAIN	-		1524		MP		31.7		68X13		ROUND			
Special Features														
Special Features Com	ment													
				Uti	ilities (L	ocated	at)							
Utility Attachments		1.0				•								
Telephone In r/w to North and South.						Gas								
Power							Municipal							
Others							Problem (Y/N) No							
Remarks														
			T	<u>oroa</u> Last			ankment	ndi	tion					
Harizantal Alianmont		2 ast 8	NOW 8	Explanation of Condition Farm access @ 50m West.										
Horizontal Alignment				8	8									
Vertical Alignment Roadway Width (m)	10.500		0	0										
Embankment				6	6	Wide t	Wide transverse crack over pipe - previously se							
Sideslope (:1) 2.5						South end measured.								
(Height of Cover(m)														
Guardrail (Y/N)		Yes				N shoulder only.								
Approach Road / Eml	bankment	General Rat	ing	8	8									
					Upstre	am End								
Culvert Component				Last	Now	1	ation of Co	ondi	tion					
Direction				S										
End Treatment (Concre Others, None)	STEEL													
Headwall				Х	X									
Collar				Х	Х									
Wingwalls				Х	Х									
(Shape :)														
Cutoff Wall				Х	Х									

Alberta Transportation

	j.		Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	100			
Scour Protection		6	6	Well grassed.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			, Rise (mm): 1524, Type: MP)
Barrel Last Accessible Date	24-Jan-2009	<u> </u>	<u>,-</u>	Middle 1/2 not viewed, water to 0.6m from roof, some flattening visible.
Special Features				
Special Feature				
(Type:)				
Special Feature				-
(Type:)				
Roof		N	N	(Roof estimated sag is 90 mm. 24Jan2009).
Measured Rise (mm)			1	
Measured At Ring No.				– (Beginning to flatten @ 2/3 L. (6% roof sag.) 95/05/08.)
Sag (mm)	90			
Percent Sag	6			-
Sidewall	0	N	N	(Localized perforations & infiltration - photo. 24Jan2009).
Measured Span (mm)	1600			
Measured At Ring No.	3			-
Deflection (mm)	100			-
Percent Deflection	7			(8.9% deflection. 24Jan2009).
	1		N	
Floor		N	N	
Bulge (mm)				-
Measured At Ring No.	No			-
Abrasion (Y/N)	No	N I	N.I.	(Macourod at ring 6/7 with fill complex in where (shots) 0.4 In 0000)
Circumferential Seams	100	N	N	(Measured at ring 6/7 with fill coming in - minor (photo). 24Jan2009).
Separation (mm)	190	-		Directorial
Longitudinal Seams	0	5	N	Riveted.
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)				
Longitudinal Stagger (Y/N)				
Coating		3	N	(Rusting along sidewall from soil. Waterline is 700mm above invert.
Corrosion By Soil (Y/N)	Yes			Localized perforations. 31Aug2010).
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

71685 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca t	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 1524, Type: MP)					
Ponding (Y/N)	Yes								
Fish Passage Adequacy		5	5						
Baffle		X	Х	_					
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating			3	GR carried forward from 24Jan2009 probably due to flattened roof.					
		D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	Х						
Wingwalls		Х	X						
(Shape:)				1					
Cutoff Wall		X	X						
Bevel End		5	5						
Heaving (mm)	300								
Invert Above/Below Stream Bed	ABOVE			-					
Above/Below (mm)	300								
Scour Protection		5	5	_					
(Type : NATURAL)				-					
(Avg. Rock Size(mm) :)			_						
Scour/Erosion	1	5	5						
Beavers (Y/N)	No								
Downstream End General Ratir	ng	5	5						
				re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			-						
Alignment		6	6						
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading				Unknown.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Alberta Transportation

71685 -1 Bridge Culvert

Maintenance Recommendations													
Inspector Recommendations			Year	Inspecto	r Comments		Department Cor	nts		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCR	ETE/STEEL LINING												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTOFF		DFF											
REPAIR SEAMS			2012	12 Repair separated circumferential seam at 2/3 (if not done).									
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)) 33.3/33.3		Sufficiency Rating (Last/Now) (%)		44.7/44.8 Est. Repl. Yr		2020	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection						Department Comments							
Maintenance Reviewed By					Date			E	Estimated Total	0			
Proposed Long-Term Strategy 2004.05.30 Culvert should be ok until 2023.													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Owe		Owen S	Owen Salava Previous				Assistant's Name						
		28-Mar-2014 Previou					Inspection Date 31-Aug-2010						
Inspection Cycle (Default) (months) 21		21											
Comment													