					Brida	e Culve	ert Insp	ection						
Bridge File Numl	ber	71073 -1	Bridge Culve				Form 7			CUL1				
Year Built		1959					Lot No	• •		1				
Bridge or Town	Vame		COURT					tor Name		Owen Salava				
Located Over			ARY TO CLEA	RWATER	RIVE	-R	· ·	Inspector Class BR CLS A						
2000100 0101		6.159.5,	WATERCRS-	ST		,	Assistant Name			D. COLOT				
Located On		22:22 C1	15.875					Assistant Name Assistant Class						
Water Body CI./	Year													
Navigabil. Cl./Ye	ar						· ·	Inspection Date 19-Oct-2012 Data Entry By Marcia Chavez						
Legal Land Loca	ition	SW SEC	6 TWP 38 RC	3E 6 W5M	1			a Entry Date 15-Nov-2012						
Longitude, Latitu	ıde	-114:51:3	30, 52:14:11					ver Name		John O'Brien				
Road Authority		Alberta T	ransportation	(AIT)						30-Oct-2012				
Contract Main. A	rea	CMA18					Review Date Dept. Reviewer Name				00			
Clear Roadway/S	Skew	9.9 /					Dept. Reviewer Name Dept. Review Date			19-Nov-2012				
AADT/Year		2,380 / 2	011 (A)				Follow		2	19-1100-2012				
Road Classificati	ion	RAU-210					FOIIOW	-ор ву						
Detour Length (k	(m)	10												
Bridge Culvert I	Inform	ation												
Number of Culve	erts	1												
Pipe #	Barrel	S	Span	Rise (or l	Dia.)	Туре		Length		Corr. Profile Pl./Slab Shape Thickness				
1 MAIN 1429 1575					SPE		54.3	152X51 2.8 ELLIPSE						
Special Features VERT TIMBER STRUTS					3									
Special Features Comment														
·														
					Uti	ilities (L	ocated	at)						
Utility Attachmen							I							
Telephone	-	to West.					Gas							
Power	3 wire	30m Eas	t of c/l.				Munici							
Others							Proble	m (Y/N)	10					
Remarks														
				Ap	·			ankment						
								nation of Co						
Horizontal Alignr					7	7		ction 200m		th. ssing. Limited				
Vertical Alignme	nt ———				6	6	sight d	istance.	10 pc					
Roadway Width	(m)		9.900											
Embankment					7	7	Rock r	iprap placed	d on	SE and NW roa	adway ditch.			
Sideslope (:1) 2.5														
(Height of Cov	er(m) :	7.5)												
Guardrail (Y/N)			Yes											
Approach Road	l / Eml	oankmen	General Rat	ing	6	6								
						Unstre	am End							
Culvert Compoi	nent				Last	Now		nation of Co	ondi	tion				
Direction					W				J.1 4 11					
End Treatment (Concre	ete. Steel	STEEL											
Others, None)			J			V								
Headwall					X	X								
Collar					Х	X								
Wingwalls					X	X								
(Shape:)														
Cutoff Wall					Х	X								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	Superficial rust and damage. Beaver protection around bevel not
Heaving (mm)	300			effective.
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		N	3	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	3	Bevel undermined 500mm into barrel - photo.
Beavers (Y/N)	No			Piping throughout both sidewalls.
Upstream End General Rating		3	3	
		Brid	dge Cu	Ivert Barrel
Culvert Component			T	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			·
Barrel Last Accessible Date	19-Oct-2012			Design 1429 x 1575.
Special Features				
Special Feature		5	5	TT struts installed 150mm x 200mm @ 1.20m from R6-R17.
(Type : VERT TIMBER STRUTS))			250
Special Feature				
(Type:)		<u> </u>		
Roof		N	3	R7 - 1420, R13-1360, 8 - 1365, 10 - 1360, 12 - 1365.13.7%.
	1260	IN	J	
Measured Rise (mm)	1360			
Measured At Ring No.	13			13.7%
Sag (mm)	215			
Percent Sag	13		_	
Sidewall	I	N	2	R6-18: sidewall has buckled, no cracks visible.
Measured Span (mm)	1666			Small hole in barrel.
Measured At Ring No.	13			7 - 1602, 13 - 1666, 8 - 1642, 10 - 1645 piping throughout S wall & haunched, 12 - 1652.
Deflection (mm)	237			Sidewall cusping outwards.
Percent Deflection	16			16.6%
Floor		N	4	Construction damage. One area at R11 has large hole in floor
Bulge (mm)	150			probably caused during construction.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	4	(R9-14 are cracked at 12:00 on circ seams. 25/May/2006) - Not
Separation (mm)	0	14	т	visible behind cap - monitor.
<u> </u>	· ·	NI	5	
Longitudinal Seams Total No. of Cracked Bings	0	N	<u> </u>	-
Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams	U			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
	INO			Cuparticial rupting @ halt hales 9 flags
Coating	V	5	5	Superficial rusting @ bolt holes & floor.
Corrosion By Soil (Y/N)	Yes			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			

71073 -1 Bridge Culvert

		Bric	lge Cul	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1429	, Rise (mm): 1575, Type: SPE)					
Fish Passage Adequacy		3	3	(High velocities. 25/May/2006). Outlet perched.					
Baffle		Х	X						
(Type:)									
Waterway Adequacy		4	4	(Scour @ D/S end & has flowed with					
Icing (Y/N)	No			2.0m of head. 25/May/2006).					
Silting (Y/N)	No								
Drift (Y/N)	Yes			Some drift caught on fence @ U/S end; drift on struts. Beaver debris at outlet.					
Barrel General Rating		3	3	G.R. inc 1 pt due to struts.					
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		Е							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	X						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		Х	X						
Bevel End		5	5						
Heaving (mm)	100								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	600								
Scour Protection		N	4						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		N	4	Vertical bank cut @ SE corner into sandstone.					
Beavers (Y/N) No									
Downstream End General Rating			4						
			truotus	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)			INOW	Explanation of Condition					
Alignment			4	Sharp bends at both ends - monitor.					
Bank Stability			4	Vertical banks D/S - monitor.					
HWM (m below Top of Culvert)	-2.0								
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

Alberta Transportation

				Maintenance Recommendations	Recommend	ations					
Inspector Recommendations	ndations	Ye	Year	Inspector Comments		Department Comments	ıments	•	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	IRS										
PLACE ADDITIONAL RIP RAP	L RIP RAP	20	2013	Class 1, 15m3 @ U/S, restore clay seal, fill d/s scour hole.	y seal, fill d/s						
REMOVE DRIFT ACCUMULATION	CUMULATION										
INSTALL CONCRETE/STEEL LINING	TE/STEEL LINING										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF	TE COLLAR/CUTOF										
REPAIR SEAMS											
OTHER ACTION		20	2015 F	Replace pipe if opportunity presents itself.	its itself.						
OTHER ACTION		20	2013 F	Repair floor.							
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now)	n Rating (Last/No		33.3/33.3	Sufficiency Rating (Last/Now)		26.9/26.8	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)		Yes
Special Cu Comments for he Next Inspection LF	Culvert appears to be head. LRA notificatin sent t	e undersiz o Donald	zed bas Saunde	Culvert appears to be undersized based on scour, ice level in culvert & 2.0m of head. LRA notificatin sent to Donald Saunders with AT on 01Nov2012.	2.0m of	Department Comments					
Maintenance Reviewed By	ved By					Date		Es	Estimated Total	0	
Proposed Long-Term Strategy	n Strategy										
On 3-Year Program (Y/N)		\									
Proposed Action		2007.10.1	o on sp	2007.10.10 on spot program for 2012.							
Previous Inspector's Name		Owen Salava	ava		Previous /	Previous Assistant's Name					
Next Inspection Date		19-Jul-2014	14		Previous I	Previous Inspection Date	03-Feb-2011				
Inspection Cycle (Default) (months)		21									
Comment											

				Maintenance Re	commend	dations						
Inspector Recom	mendations		Year	Inspector Comments		Department C	Commer	its		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS											
PLACE ADDITIO	NAL RIP RAP		2013	Class 1, 15m3 @ U/S, restore clay d/s scour hole.	seal, fill	To operations	}					
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCE	RETE/STEEL LINING	G										
INSTALL STRUT	S											
INSTALL CONCE	RETE COLLAR/CUT	OFF										
REPAIR SEAMS												
OTHER ACTION			2015	Replace pipe if opportunity presents	itself. Programmed					2014		
OTHER ACTION			2013	Repair floor.		Defer until replaceme				2014		
OTHER ACTION												
OTHER ACTION												
Structural Cond (%)	ition Rating (Last/N	low)	33.3/33	.3 Sufficiency Rating (Last/	Now)	26.9/26.8	Est	. Repl. Yr	2015	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	head.			pased on scour, ice level in culvert & nders with AT on 01Nov2012.	2.0m of	Department Comments	Culver	t is programm	ned to be	replaced in 20	14	
Maintenance Rev	viewed By	Andrev	w Smikle	es		Date	07-Jan	-2013		Estimated Tota	ıl O	
Proposed Long-Term Strategy .									·			
On 3-Year Program (Y/N)		Υ										
• • • • • • • • • • • • • • • • • • • •		2007.1	10.10 on	spot program for 2012.								
Previous Inspecto	or's Name	Owen	Salava		Previous	s Assistant's Name						
Next Inspection D	Date	19-Jul-	-2014		Previous	Inspection Date	е	03-Feb-2011				
Inspection Cycle	(Default) (months)	21										
Comment	, , , , , ,											