					Brido	ae Culve	ert Inspe	ection						
Bridge File Nu	Bridge File Number 76367 -1 Bridge Culvert					jo Guive		Form Type CUL1						
Year Built		1967						Lot No. 2						
Bridge or Town	n Name		GG				Inspector Name			Owen Salava				
Located Over			ARY TO NORT	TH SASK	ATCH					BR CLS A				
			6.177.1, WATE			Assistant Name				-				
Located On		11:04 C1	1 9.172				Assista	nt Class						
Water Body Cl	l./Year							ion Date		07-Feb-2012				
Navigabil. Cl./	Year						Data E			Marcia Chave	 Z			
Legal Land Lo	cation	NE SEC	1 TWP 38 RG	E 18 W5I	M			ntry Date		06-Mar-2012				
Longitude, Lat	itude	-116:26:	23, 52:14:37					er Name		John O'Brien				
Road Authority	/	Alberta 7	Transportation	(AIT)			Review	Date		22-Feb-2012				
Contract Main.	. Area	CMA18					Dept. F	Reviewer Na	ame	Andrew Smikl	es			
Clear Roadwa	y/Skew	13.3 / 30	deg. (RHF)					Review Date		09-Mar-2012				
AADT/Year		840 / 20	10 (A)				Follow-							
Road Classific	ation	RAU-213	.4-120					1 - 7						
Detour Length		300												
Bridge Culver														
Number of Cul	1	1												
Pipe #	Barrel	8	Span Rise (or D			Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	2	RP		54.3			152X51	3.5	PIPE ARCH				
1 MAIN 2489 1752 Special Features CONC FLOOR									'					
Special Features Comment														
Operation Francis														
					Ut	ilities (L	ocated	at)						
Utility Attachm	ents													
Telephone	East r	/w.					Gas							
Power							Municip	oal						
Others							Probler	n (Y/N) N	lo					
Remarks														
Ap							d / Embankment Explanation of Condition							
Horizontal Alignment				6	6	In-between two curves limiting sight distance.								
Vertical Alignm			10.000		7	7								
Roadway Widt	th (m)		13.300											
Embankment					7	7								
Sideslope (_	:1)		2.5											
(Height of Co		: 4)												
Guardrail (Y/N		· •/	Yes				South s	side only.						
Approach Road / Embankment General Rating			6	6										
Approacti Ko	au / EIIII	van Niileli	C General Rat	y	6									
							am End							
Culvert Comp	onent				Last	Now	Explan	ation of Co	ondit	ion				
Direction		_			W									
End Treatment Others, None)	t (Concr	ete, Steel	, CONCRETE											
Headwall					6	6								
Collar					7	7								
Wingwalls					X	X								
(Shape:)													
Cutoff Wall					Х	X								

76367 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Minor superficial rust.
Heaving (mm)	0			' '
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	4	(Concrete being undermined & wide 10mm cracks. 05May2010).
(Type : CONCRETE)				(consists some grandsmines a mass remained some, 25 re).
(Avg. Rock Size(mm):)				
Scour/Erosion		4	4	
		'	<u> </u>	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Bri	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			·
Barrel Last Accessible Date	07-Feb-2012			
Special Features				
Special Feature		3	3	Sections of concrete floor missing.
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	1735			
Measured At Ring No.	4			
Sag (mm)	17			
Percent Sag	0			
Sidewall		7	7	Damage to corrugation, minor abrasion. Superficial rust.
Measured Span (mm)	2510			_ = amage as earlagamen, amas amas an earpanaism as a
Measured At Ring No.	4			
Deflection (mm)	21			
Percent Deflection	0			
Floor	J	5	5	Approx 60% of concrete floor gone exposing culvert floor, surface
Bulge (mm)	0	3	<u> </u>	corrosion.
Measured At Ring No.				
Abrasion (Y/N)	Yes			
	1 53	7	7	
Circumferential Seams	0	7	7	
Separation (mm)	0	_	_	
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			Stagger 1N roof & upper walls only.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Superficial rust.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Bric	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 2489		9, Rise (mm): 1752, Type: RP)					
Fish Passage Adequacy		3	3	Very steep with large turbulance weirs; perched.					
Baffle		7	7	H-pile installed across bottom @ 2.5m intervals. Does not protect					
(Type: WEIR)				floor, spaced too far apart - photo.					
Waterway Adequacy		5	5	Built up behind HP baffles.					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	Yes								
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		Х	Х						
Bevel End		5	5	Minor superficial rust, minor damage from abrasion.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	1500								
Scour Protection		3	3	Bed is degrading taking away streambed at outlet. 2.0m x 4m x 5m					
Heaving (mm) 0 Invert Above/Below Stream Bed ABOVE Above/Below (mm) 1500				scour hole - photo.					
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		3	3						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	3	3						
		s	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		5	5	Some vertical banks D/S of culvert.					
HWM (m below Top of Culvert)				HWM not visible. Small drift 100mm diameter.					
Drift (Y/N) Yes									
Channel Bottom Degrading/Aggrading DEGRADING									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)	_	_						
Channel General Rating		7	7						

Alberta Transportation

		Maintenance Recommendations	nmendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	ients	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	Class 3, 30m3 @ D/S.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF	OFF						
REPAIR SEAMS							
OTHER ACTION	2012	Replace concrete floor.					
OTHER ACTION	2012	Repair concrete slope protection @ U/S	U/S, 5m3.				
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	ow) 77.8/77.8	Sufficiency Rating (Last/Now) (%)	() 53.1/53.1	Est. Repl. Yr 2030	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	P	Previous Assistant's Name				
Next Inspection Date	07-Nov-2013	ā	Previous Inspection Date	05-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							

				Maintenance Re	commen	dations						
Inspector Recommendations		Year	Inspecto	or Comments		Department C	omme	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP		2012	Class 3	, 30m3 @ D/S.		Programmed	and co	2012				
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LININ	G											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CU	ΓOFF											
REPAIR SEAMS												
OTHER ACTION		2012				Programmed	and co	ompleted	2012			
OTHER ACTION		2012	Repair of 5m3.	concrete slope protection @	U/S,					2012		
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No. (%)		77.8/77	Sufficiency Rating (Las		/Now)	53.1/53.1 Est. Repl. Yr		st. Repl. Yr	2030	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection						Department Comments	DA					
Maintenance Reviewed By Darro		Ahlsted	t			Date	05-N	ov-2012		Estimated Tot	al 0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name		Salava			Previous	Assistant's Nar	ne					
Next Inspection Date	07-Nov	/-2013			Previous	us Inspection Date 05-May-2010						
Inspection Cycle (Default) (months)	21											
Comment Comment												