					Brida	e Culve	ert Insne	ection						
Bridge File Number 00559 -1 Bridge Culvert					Direg	o ourve	vert Inspection Form Type			CUL1				
Year Built 1963				igo calvert			Lot No.		2					
Bridge or Town Name FORT SASK			ASK				Inspector Name		Wade Nanninga					
Located Over TF		TRIBUTARY TO NORTH SASKATCHEWAN				Inspector Class			BR CLS B	<u>gu</u>				
Located Over		RIVER, 6.69, WATERCRS-ST					Assistant Name		DI OLO D					
Located On 825:02 C1			21 3.194				Assistant Class							
Water Body Cl./Year									19-May-2011					
Navigabil. Cl./Year							Inspection Date		Theresa Lacu	eta				
Legal Land Location SE SEC			8 TWP 55 RG	E 22 W4	М		Data Entry By Data Entry Date				Sia			
Longitude, Latitude -11		-113:13:47 53:44:10					Reviewer Name			08-Jun-2011 Arnold Assenheimer				
Road Authority Alb		Alberta 7	Alberta Transportation (AIT)					Review Date		1	neimei			
Contract Main. Area CMA09									30-May-2011					
		9.8 / 40 (deg. (RHF)				Dept. Reviewer Name Dept. Review Date							
AADT/Year	•	3,500 / 2					· ·		ate	14-Jun-2011				
Road Classific	ation	RCU-209					Follow-Up By							
Detour Length		3												
Bridge Culver		-												
Number of Cul		1												
Pipe #	Barrel	5	Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	-		1500		SP		37.8		152X51	3.0	ROUND		
Special Features							01.0				-			
Special Featur		ment												
					Uti	ilities (L	ocated	at)						
Utility Attachm	ents													
Telephone West r/w.							Gas							
Power	7 lines	7 lines along east r/w.						Municipal						
Others							Problem (Y/N) No							
Remarks	BF tag	g installed	d at u/s end.											
				A				ankment						
				Last	Now	Explanation of Condition								
Horizontal Alignment				7	7	Stratotech park entrance & road ~20m south. No passing both directions.					ssing both			
Vertical Alignn	nent				8	8	unectic	113.						
Roadway Width (m) 9.		9.800												
Embankment				2	3	Slide on SE corner of pipe, 4m from to road was noted @ 1998								
Sideslope (:1)			1.5				inspection photo. Est height of cover.							
(Height of Co	over(m) :	3)					Latilei	9111 01 001	VOI.					
Guardrail (Y/N) Yes														
Approach Road / Embankment General Rating					2	3								
						Upstre	am End							
Culvert Comp	onent				Last	Now		ation of	Condi	tion				
Direction			W		Culverts from industrial park drain into u/s end.									
End Treatmen Others, None)	t (Concre	ete, Steel	, STEEL								,			
Headwall					Х	X								
Collar				Х	Х									
Wingwalls				Х	X									
(Shape:)														
Cutoff Wall	,				Х	X								
Outon vvan														

00559 -1 Bridge Culvert

			11:	ow End
				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	I	5	5	
Heaving (mm)	200			
Invert Above/Below Stream Bed				
Above/Below (mm)	100			
Scour Protection		N	4	Bevel unsupported fro 0.5m.
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	4	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			, Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	14-May-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	
Measured Rise (mm)	1530			
Measured At Ring No.	7			
Sag (mm)	30			
Percent Sag	2			
		6	6	
Sidewall Magazinad Span (mm)	1480	0	6	
Measured Span (mm)	7			_ 1.3%
Measured At Ring No.	-			1.376
Deflection (mm)	20			
Percent Deflection	1		_	
Floor	1_	N	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Pitting rust on floor & @ bolt holes.
Corrosion By Soil (Y/N)	Yes	,	<u>'</u>	
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Culvert Component Last (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm)		Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm)	:	D' (() () 4500 T () (D)					
		, Rise (mm): 1500, Type: SP)					
Fish Passage Adequacy 4	4	Hanging outlet.					
Baffle X	Х						
(Type:)							
Waterway Adequacy 5	5						
Icing (Y/N) No							
Silting (Y/N) No							
Drift (Y/N) No							
Barrel General Rating 6	6						
Do	wnstr	eam End					
Culvert Component Last	Now	Explanation of Condition					
Direction							
End Treatment (Concrete, Steel, Others, None)							
Headwall X	Х						
Collar	Χ						
Wingwalls	Χ						
(Shape:)							
Cutoff Wall X	Χ						
Bevel End 4	4	Bevel is cantilevered 1.5 m - photo.					
Heaving (mm) 0							
Invert Above/Below Stream Bed ABOVE							
Above/Below (mm) 1000							
Scour Protection N	3	Large scour hole @ outlet. Approx 2m deep x 8m wide. Outlet					
(Type : NONE)		hanging.					
(Avg. Rock Size(mm):)							
Scour/Erosion N	3						
Beavers (Y/N) No							
Downstream End General Rating 3	3						
St	ructur	re Usage					
Last	Now	Explanation of Condition					
Channel (U/S and D/S)							
Alignment 4	4	Meandering with signs of bank sloughing.					
Bank Stability 2	3	Vertical banks d/s and @ SE.					
HWM (m below Top of Culvert)		HWM not visible.					
Drift (Y/N) Yes							
Channel Bottom Degrading/Aggrading DEGRADING							
Beavers (Y/N) No							
(Fish Compensation Measure 1 : NONE)							
(Fish Compensation Measure 2 : NONE)							
Channel General Rating 2	3						

			Maintenance I	Recommen	dations					
Inspector Recommendations	Year	Inspector	Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION		Repair sl	ide at SE corner.							
OTHER ACTION		Place ad	ditional rock riprap, 10m3	outlet						
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 66.7/6	66.7/66.7 Sufficiency Rating (Last/		t/Now)	33.7/36.1	Est. Repl. Yr	2021	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection Site is scheduled for	cycle to 12 mc or extension in	onths until sic next 3 years	leslope is repaired.		Department Comments					
Maintenance Reviewed By					Date		Е	stimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam	Dave Lam Previ				us Assistant's Name				
				Drovious	Inspection Date	12-Mar-2008				
Next Inspection Date	19-Aug-2014	•		Frevious	inspection bate	12-Iviai-2000				
Next Inspection Date Inspection Cycle (Default) (months)	19-Aug-2014 39	·		Fievious	inspection bate	12-10101-2000				