					Brida	ie Culve	ert Inspe	ection			
Bridge File Nu	mber	77779 -1	Bridge Culve	ert	Dilidg	je Culvi	Form T		CUL1		
Year Built		1973	Dilago Carro	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Lot No.		1		
Bridge or Town	n Name	10.0					Inspector Name		Dave Halwa		
Located Over		MCCUE	CK, WATERO	CRS-NI				Inspector Class BR CLS A			
Located On		734:10 C)			Assistant Name				
Water Body CI	l /Year	704.100	71 2.000			Assistant Class			Kayd Larsen		
Navigabil. Cl./								tion Date	23-Apr-2010		
Legal Land Lo		NW SEC	5 TWP 31 R	GE 9 W/5N	 Л		Data Entry By		Jill Potts		
Longitude, Lat			02, 51:37:47	OL 3 VVOIV	<u> </u>			ntry Dy	30-Jun-2010		
Road Authority			ransportation	(AIT)				ver Name	John O'Brien		
Contract Main.		CMA28	Tarisportation	(A11)			Review		22-Jun-2010		
Clear Roadwa		8.5 /						Reviewer Name			
AADT/Year	y/OREW		10 (Λ)				Dept. Review Date		22-Jul-2010		
Road Classific	ation		100 / 2009 (A) RLU-208G-90				<u> </u>		22-3ui-2010		
Detour Length		80	l-208G-90				Follow-Up By				
Bridge Culver		1									
Number of Cul		1									
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2	.019	019 2226 SPE		SPE		20.7	152X51		ELLIPSE
Special Features							1.02/10				
Special Features Special Features Comment											
Openial Foatal	00 001111	orik									
					Ut	ilities (L	ocated	at)			
Utility Attachm	ents										
Telephone							Gas				
Power							Municip	oal			
Others							Proble	m (Y/N) No			
Remarks No utilities.											
A							d / Embankment				
					Explanation of Condition						
Horizontal Alignment					4	4	In superelevated curve. Steep hill to South/North on sharp curve. Had to reduce speed.			uce speed.	
Vertical Alignment		40.000		4	4						
Roadway Width (m)		10.000									
Embankment					5	5	Steep	sideslopes. Pipe	too short.		
Sideslope (_	_:1)		1.0				1.0m West side/0.6m East.				
(Height of Co	over(m) :	: 0.6)									
Guardrail (Y/N)		No								
Approach Roa	ad / Eml	bankment	t General Rat	ting	4	4					
						Linetro	am End				
Culvert Comp	onent				Last	Now		ation of Condi	tion		
Direction					W		•		-		
End Treatment Others, None)	t (Concre	ete, Steel,	STEEL								
Headwall					Х	X					
Collar					X	X					
Wingwalls					X	Х					
(Shape :)											
Cutoff Wall					Х	Х					

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		2	2	Torn - photo.
	1000			Tom - photo.
Heaving (mm) Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	600			N c
Scour Protection		N	X	No scour protection.
(Type: NONE)				
(Avg. Rock Size(mm):)			Ι _	
Scour/Erosion		N	5	
Beavers (Y/N)	Yes			
Upstream End General Rating		2	2	
		Bri	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			·
Barrel Last Accessible Date	23-Apr-2010		,	
Special Factures				
Special Feature				
Special Feature				
(Type:)			1	
Special Feature				
(Type:)			1	
Roof	I	2	1	Ring 1 seam collapsed, torn & pushed upward - photos. Remainder of barrel rated '7'. Midspan measured - 2240.
Measured Rise (mm)	2310			R1, R2 badly damaged.
Measured At Ring No.	1			3.7%
Sag (mm)	84			-
Percent Sag	4			
Sidewall		2	2	Remainder of barrel rated '7'.
Measured Span (mm)	1640			Midspan measured - 2060.
Measured At Ring No.	1			·
Deflection (mm)	379			
Percent Deflection	19			
Floor		2	2	Ring 1 & 1.1m of ring 2 torn @ 4 & 6 o'clock - photos. Remainder of
Bulge (mm)	0			barrel rated '7'. Piping under R1 & R2.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		2	1	Torn seam between ring 1 & 2.
Separation (mm)	70			
Longitudinal Seams		2	1	Torn seam in ring 1 & 1.1m of ring 2 both sides. Remainder of barrel
Total No. of Cracked Rings	2	_		rated '8'.
Total No. of Rings with Two Cracked Seams	2			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Floor abrasion.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

77779 -1 Bridge Culvert

		Bric	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SPE)
Fish Passage Adequacy		1	1	D/S perched 1.0m.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		2	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	1	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls			Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm) 1000				
Scour Protection		3	N	Perched bevel. Water/ice.
(Type:)				
(Avg. Rock Size(mm) :)		1	1	
Scour/Erosion		3	3	Scour hole 18m x 10m x 1.5m.
Beavers (Y/N)	No			
Downstream End General Ratin	ng	3	3	
		s	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		1	1	
Alignment		7	4	90 degree bend @ U/S end.
Bank Stability		4	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	4	

Alberta Transportation

77779 -1 Bridge Culvert

		Maintenance R	Naintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Departn	Department Comments	ents		Target Year	Est. Cost	Cat#
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2010	Armour both ends after repairing bevel. (50m3)	evel. (50m3)						
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF	FF								
REPAIR SEAMS									
OTHER ACTION	2010	Replace U/S bevel, 1st ring & ring 2.	-						
OTHER ACTION	2013	Replace pipe.							
OTHER ACTION	2010	Inspect at 12 month cycle until repaired	ired.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	w) 22.2/11.1	Sufficiency Rating (Last/Now) (%)	(Now) 8.3/10.8	ш	Est. Repl. Yr	2013	Maint. Reqd. (Y/N)		Yes
Special AT notified by email Comments for Next Inspection	September 06	AT notified by email September 06, 2005. AT notified April 23, 2010.	Department Comments	nent ints					
Maintenance Reviewed By			Date			1	Estimated Total	0 1	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lam		Previous Assistant's Name	's Name					
Next Inspection Date	23-Jul-2013		Previous Inspection Date	n Date	06-Sep-2005				
Inspection Cycle (Default) (months)	39								
Comment									

		Maintenance F	Recommen	dations				
Inspector Recommendations	Year	Inspector Comments		Department C	Comments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2010	Armour both ends after repairing (50m3)	bevel.	Resotre D/S a	and armour	2012		
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LININ	NG .							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CU	TOFF							
REPAIR SEAMS								
OTHER ACTION	2010	Replace U/S bevel, 1st ring & ring	j 2.	Make repairs - low water				
OTHER ACTION	2013	Replace pipe.		Too early to r	epalce			
OTHER ACTION	2010	Inspect at 12 month cycle until rep	paired.					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last (%)	/Now) 22.2/1	1.1 Sufficiency Rating (Las (%)	st/Now)	8.3/10.8	Est. Repl. Yr 2013	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	ail September 0	6, 2005. AT notified April 23, 2010.		Department Comments	Site likely experiences high vocansider concrete cutoff and	olumes and ve collar	locities; may	/be
Maintenance Reviewed By	Paul Carrier			Date	12-Feb-2011	Estimated Tota	ıl O	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Dave Lam		Previous	Assistant's Nar	me			
Next Inspection Date	23-Jul-2013		Previous	Inspection Date	e 06-Sep-2005			
Inspection Cycle (Default) (months)								
Comment								