					Brido	je Culve	ert Insp	ection					
Bridge File Number 75364 -1 Bridge Culvert					Dilag	, o count	Form Type			CUL1			
Year Built 1961			1 Bridge Culvert				Lot No.		1				
Bridge or Towr				Inspector Name		Jon Davies							
Located Over		ORION ROGERS COULEE, 11.1.1.2.1,					nspector Class BR CLS B						
		WATERCRS-ST						Assistant Name					
Located On		61:06 C1	1 23.386				Assistant Class						
Water Body CI	./Year						Inspection Date		28-Mar-2013				
Navigabil. Cl./Year						Data Entry By		Lauren Korte					
		NW SEC	JIM SEC 6 TIMP 6 PGE 6 MAM					Data Entry Date 08-Apr-20					
		-110·48·47 40·26·51					Reviewer Name Garry Roberts						
		Alberta T	Alberta Transportation (AIT)					/ Date		07-Apr-2013			
Contract Main. Area CMA24		CMA24	A						Tim Davies				
Clear Roadway/Skew 7.3		7.3 / -15	deg. (LHF)					Dept. Review Date 22-Apr-2013					
AADT/Year		160 / 201	12 (A)				Follow-Up By						
Road Classifica	ation	RAU-209	9-110			т опом-ор Бу							
Detour Length	(km)	6											
Bridge Culver		nation											
Number of Cul	verts	1											
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	2	2030	2240		SPE		29.9		152X51	3.5,3.5,3.5	ELLIPSE	
Special Feature	es												
Special Feature	es Comi	ment											
					Ut	ilities (L	ocated	at)					
Utility Attachmo							_						
Telephone		ditch.					Gas						
Power		East - 15			Municipal Problem (Y/N) No								
Others Fibre optic cable at north ROW							Proble	m (Y/N) N	10				
Remarks				Δ.		ah Daar	J / Emb	ankment					
				A				ation of C	ondi	ion			
Horizontal Alig	nment				9	9	LAPIAI		onan				
Vertical Alignm					9	9	-						
Roadway Widt			7.300										
Trodaway Wat	()		1.000										
Embankment			7			7	6:1 directly over pipes.						
Sideslope (_	_:1)		3.0										
(Height of Co	over(m)	: 0.7)											
Guardrail (Y/N))		No										
Approach Roa	ad / Eml	bankmen	t General Rat	ing	9	9							
						Upstre	ı am End						
Culvert Comp	onent				Last			ation of C	ondi	tion			
Direction							East						
End Treatment Others, None)	t (Concre	ete, Steel	STEEL										
Headwall					Х	X							
Collar					Х	X							
Wingwalls			X	X									
(Shape:							1						
Cutoff Wall				Х	X								
		Odton vvan											

75364 -1 Bridge Culvert

			Linetro	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		3	N	(Is hanging slightly - 25mm. corrosion perforations @ floor.)11 June					
Heaving (mm)	150	3	IN	2011					
	130			450 mm water					
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		5	5						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Upstream End General Rating		3	3	GR carried forward					
		Brid	dae Cu	lvert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN. Sna			•					
Barrel Last Accessible Date	28-Mar-2013		.,. <u>2</u> 000	, (). 12 ,,,					
Dairei Last Accessible Date	20-Wai-2013								
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		3	3	Isolated perforations in Rings 2 and 3					
Measured Rise (mm)	2200								
Measured At Ring No.	7								
Sag (mm)	40								
Percent Sag	2								
Sidewall		6	6						
Measured Span (mm)	2035								
Measured At Ring No.	7								
Deflection (mm)	5								
Percent Deflection	1								
Floor		3	N	(Corrosion perforations) 11 June 2011					
Bulge (mm)	0			(@ D/S bevel floor & throughout the pipe) 13- Sep- 2009					
Measured At Ring No.	7			PR 3 450 mm of water througout					
Abrasion (Y/N)	No								
Circumferential Seams	-	6	6						
Separation (mm)	0								
Longitudinal Seams	-	6	6	Alkali staining at isolated seams					
Total No. of Cracked Rings	0		- 5	, man stanning at location souths					
Total No. of Rings with Two	0								
Cracked Seams				1N stagger					
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		3	N	(Corrosion perforations up to 40mm dia @ U/S floor of bevel.) 11					
Corrosion By Soil (Y/N) Yes				June 2-11 Ring 3 has corrosion perforations in 1 isolated area up to 20mm dia.					
Corrosion By Water (Y/N)	Yes			Corrosion with perforations @ ring 2 roof. Staining through bolt holes upper sidewall @ circ seams, soil & water rusting. (Corrosion with some pitting @ floor & perforations on the floor.) 11 June 2011 PR 3					

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2030	, Rise (mm): 2240, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction				West
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)			1	
Cutoff Wall		Х	X	
Bevel End		5	5	Pitting
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)			T _	
Scour/Erosion	T	5	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
				re Usage
01 1/1/2 15/0		Last	Now	Explanation of Condition
Channel (U/S and D/S)		7	7	Challand defined hanks
Alignment		7	7	Shallow defined banks.
Bank Stability		7	5	Minor undercut bank at d/s NW
HWM (m below Top of Culvert)	l			HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No No			
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			
(Fish Compensation Measure 2 :	NONE)	_	T _	
Channel General Rating		7	7	

		Maintenar	nce Recommend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·							
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	2013	Install steel lining							
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 33.3/33	.3 Sufficiency Rating (%)	(Last/Now)	52.0/52.0	Est. Repl. Yr	t. Repl. Yr 2020 M		qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Е	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Jon Davies		Previous	Assistant's Name					
Next Inspection Date	28-Dec-2014		Previous	Inspection Date	15-Jun-2011				
Inspection Cycle (Default) (months)	21								
Comment									