					Bride	o Culve	ert Insp	action					
Bridge File Nun	nher	78592 -	1 Bridge Culve	rt	Billag	je Guive	Form T			CULM			
Bridge File Number 78592 -1 Bridge Culvert Year Built 1976							Lot No.			4			
Bridge or Town Name GRASSY LAKE							Inspector Name			Tom Carey			
Located Over SMR - IRRIGATION C, WATERO					CPS-I	<u> </u>				BR CLS A			
Located On							Inspector Class Assistant Name		DIX OLO A				
Water Body Cl.	Voor	3.12 01	33.304										
Navigabil. Cl./Y					Assistant Class			11-Nov-2011					
Legal Land Loc		NIM SE	C 13 TWP 10 F	OCE 12 W	/ 4 N //		Inspection Date Data Entry By		Alyssa Boynto				
				GE 13 W	13 774171			Data Entry Date		07-Dec-2011			
									Reviewer Name		Garry Roberts		
Road Authority Alberta Tra Contract Main. Area CMA24			Transportation		Review Date		-						
			•				Dept. Reviewer Name		22-Nov-2011				
Clear Roadway	Skew	13 /	0040 (A)										
AADT/Year	4'		2010 (A)				· ·	Review Da	ate	12-Jan-2012			
Road Classifica		RAU-21	13-130				Follow	ор ву					
Detour Length		5											
Bridge Culvert			2										
Number of Culv				Dica /a-	Dia \	Tuna		Longth		Corr Drofile	DI /Clah	Chons	
Pipe #	Barrel		Span	Rise (or	טומ.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1829	1118		FP		75		68X13	4.2,4.2,4.2	ARCH	
2	MAIN		1829	1118		FP		75		68X13	4.2,4.2,4.2	ARCH	
Special Feature									, ,				
Special Feature		ment											
					Ut	ilities (L	ocated	at)					
Utility Attachme	ents								ı				
Telephone North ditch					Gas								
Power	North lines.	25 m of c.l - 3					Munici	oal					
Others		ontice @	South R/W.				Proble	m (Y/N)	No				
Remarks	1 IDIE	optics @	South Ryvv.										
Remarks				Δι	nnroa	ch Road	l / Emb	ankment					
					Last	Now		ation of		tion			
Horizontal Align	nment				9	9							
Vertical Alignme					9	9	1						
Roadway Width			13.000										
						_							
Embankment					8	8		t D/S end					
Sideslope (_:1)		4.0				Lever	ver culve	it at U	/3			
(Height of Co	ver(m):	1)											
Guardrail (Y/N)			No										
Approach Boo	d / Emb	ankma	nt Conoral Bot	ina	0								
Approach Roa	iu / EMK	Jankinel	iii General Kat	iiig	9	9							
						Upstre	am End						
Culvert Compo	onent				Last			ation of	Condi	tion			
(Pipe # : 1, Sp	an Type	e: Prima	ry Span)										
Direction					S		East pi	pe, south	end.				
End Treatment (Concrete, Steel, Others, None)													
Headwall					7	7							
Collar					X	X	Concrete lined canal.						
Wingwalls					Х	Х							
(Shape:)													

78592 -1 Bridge Culvert

			Unctro	om End
Culvert Component		l act		am End Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Snan)	Last	INOW	Explanation of Condition
Cutoff Wall	у Оран)	N	N	
Odion vvan		'`	'`	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	7	Concrete lined canal and banks. Most cracks foam sealed
(Type : CONCRETE)				- Wide Clacks Idam Sealed
(Avg. Rock Size(mm) :)		1	1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
				Ivert Barrel
Culvert Component	tion Code: MAIN Co			Explanation of Condition
(Pipe # : 1, Primary Span, Loca		an (mr	1): 1829	, Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	19-Apr-2006			
Special Features				
Special Feature				East Pipe
(Type:)				Entered 1/3 way from U/S - 400mm water at D/S half.
Special Feature				
(Type:)				
Roof		N	N	Estimate roof sag.
Measured Rise (mm)	1068			Roof appears slightly flat 1/2 in from d/s Shape appears adequate.
Measured At Ring No.	3			1130 rise at 1/3 length.
Sag (mm)	28			
Percent Sag				
Sidewall		N	N	est
Measured Span (mm)	1860			1850 span at 1/3 length.
Measured At Ring No.				
Deflection (mm)	30			
Percent Deflection				
Floor	I	N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams	00	N	N	TAR CAULKED
Separation (mm)	80	\ \ \/		
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(ASPHALT COATED Asphalt 25% worn OFF ROOF) 2006/04/19
Corrosion By Soil (Y/N)	\			Pitting at side walls.
Corrosion By Water (Y/N)	Yes			

		Brid	dae Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm		
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		_	
Barrel General Rating		N	N	
				ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	<i>i</i> Span)			
Direction		N		East pipe, north end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE		1	
Headwall		7	7	Some vert cracks (minor).
Collar		X	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0	7		
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 250) Scour/Erosion		7	7	
3coul/E10sion			′	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction	1	S		West pipe, south end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		N	N	

78592 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	7	Concrete lined canal
(Type : CONCRETE)				Most cracks foam sealed
(Avg. Rock Size(mm):)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brio	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 18	329, Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	19-Apr-2006			
Special Features				
Special Feature				West Pipe
(Type:)				Enter 1/3 way from U/S - 400mm deep water at D/S half.
Special Feature				
(Type:)				
Roof		N	N	Estimate roof sag.
Measured Rise (mm)	1090			Roof appears slightly flat 1/4 in from d/s
Measured At Ring No.	3			Shape appears adequate. 1100 rise at 1/3 length
Sag (mm)	28			
Percent Sag 4				
Sidewall		N	N	est
Measured Span (mm)	1870			1950 agan at 1/2 langth
Measured At Ring No.	3			1850 soan at 1/3 length.
Deflection (mm)	41			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	(TAR CAULKED) 2006/04/19
Separation (mm)	80			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(Asphalt coated
Corrosion By Soil (Y/N)				Asphalt 25% worn off roof)2006/04/19 Pitting at side walls.
Corrosion By Water (Y/N)	Yes			i itting at side wans.
Camber POS/ZERO/NEG	NEG			

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
	cation Code: MAIN, S			329, Rise (mm): 1118, Type: FP)
Ponding (Y/N)	No		Í	(Corrosion with pitting at sidewalls.) 2006/04/19
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
		D	ownstr	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		North end, west pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Minor spall at top of headwall at west.
Collar		Х	X	
Wingwalls		Х	Х	
(Shape:)		l	I	
Cutoff Wall		N	N	
Bevel End		Х	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			Year of the	ra Una va
			Now	re Usage Explanation of Condition
Channel (U/S and D/S)		Lasi	INOW	Explanation of Condition
Alignment		9	9	
Bank Stability		8	8	
HWM (m below Top of Culvert)	0.0			Water to the crown D/S at last inspection.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		9	9	

78592 -1 Bridge Culvert

SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP REMOYE DRIFT ACCUMULATION INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION Structural Condition Rating (Last/Now) Structural Condition Rating (Last/Now) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Tom Carey Next Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 21			Maintenance	Recommendations						
PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OT	Inspector Recommendations	Year			nments	Target	t Year Est. Cos	t Cat #		
REMOVE DRIFT ACCUMULATION INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION O	SHOTCRETE REPAIRS			·						
INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION Structural Condition Rating (Last/Now) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspection Date Next Inspection Date Tom Carey Previous Inspection Date 11-Aug-2013 Previous Inspection Date Previous Inspection Date 11-Aug-2013 Previous Inspection Date Previous Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 12	PLACE ADDITIONAL RIP RAP									
INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date 11-Aug-2013 Previous Inspection Date 11-Aug-2013 Previous Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 21	REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION Structural Condition Rating (Last/Now) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date 11-Aug-2013 Previous Inspection Date 11-Aug-2013 Previous Inspection Date 12-Aug-2013 Previous Inspection Date 25-Jun-2010 OTHER ACTION OTHER	INSTALL CONCRETE/STEEL LINING									
REPAIR SEAMS OTHER ACTION Structural Condition Rating (Last/Now) (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date Tom Carey Previous Inspection Date 11-Aug-2013 Previous Inspection Date DEBATTMENT Department Comments Date Estimated Total O Previous Assistant's Name Next Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 21	INSTALL STRUTS									
OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION Structural Condition Rating (Last/Now) (%) Special Comments for Next Inspection Next Inspection On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date Inspection Cycle (Default) (months) Inspection Cycle (Default) (months) Inspection OTHER ACTION Structural Condition Rating (Last/Now) (%) Sufficiency Rating (Last/Now) (58.3/58.2	INSTALL CONCRETE COLLAR/CUTO	FF								
OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION Structural Condition Rating (Last/Now) (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspection Date 11-Aug-2013 Inspection Cycle (Default) (months) Despartment Comments Department Comments Department Comments Department Comments Previous Assistant's Name Previous Inspection Date 25-Jun-2010 Department Comments Previous Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010	REPAIR SEAMS									
OTHER ACTION OTHER A	OTHER ACTION									
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) 58.3/58.2 Est. Repl. Yr 2020 Maint. Reqd. (Y/N) No (%) Department Comments for Next Inspection Maintenance Reviewed By Date Estimated Total 0 Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Tom Carey Previous Assistant's Name Next Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 21	OTHER ACTION									
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) 58.3/58.2 Est. Repl. Yr 2020 Maint. Reqd. (Y/N) No Special Comments for Next Inspection Department Comments Maintenance Reviewed By Date Estimated Total 0 Proposed Long-Term Strategy Proposed Action Previous Inspector's Name Tom Carey Previous Assistant's Name Next Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 21	OTHER ACTION									
Comments for Next Inspection	OTHER ACTION									
Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date 11-Aug-2013 Inspection Cycle (Default) (months) Date Estimated Total 0 Pate Stimated Total 0 Previous Assistant's Name Previous Assistant's Name 25-Jun-2010 25-Jun-2010	Structural Condition Rating (Last/No (%)	ow) 55.6/55	.6 Sufficiency Rating (La (%)	st/Now) 58.3/58.2	Est. Repl. Yr	2020 Ma	aint. Reqd. (Y/N)	No		
Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date Inspection Cycle (Default) (months) Inspection Cycle (Default) (months)	Comments for									
On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date 11-Aug-2013 Inspection Cycle (Default) (months) Tom Carey Previous Assistant's Name Previous Inspection Date 25-Jun-2010	Maintenance Reviewed By			Date		Estimate	ed Total 0			
Proposed Action Previous Inspector's Name Tom Carey Next Inspection Date Inspection Cycle (Default) (months) Previous Assistant's Name Previous Inspection Date 25-Jun-2010 21	Proposed Long-Term Strategy									
Previous Inspector's Name Tom Carey Previous Assistant's Name Next Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months)	On 3-Year Program (Y/N)									
Next Inspection Date 11-Aug-2013 Previous Inspection Date 25-Jun-2010 Inspection Cycle (Default) (months) 21	Proposed Action									
Inspection Cycle (Default) (months) 21	Previous Inspector's Name	Tom Carey		Previous Assistant's Name						
Inspection Cycle (Default) (months) 21	Next Inspection Date	11-Aug-2013		Previous Inspection Date	vious Inspection Date 25-Jun-2010					
				•	1					
COMPONE	Comment									