					Drida	o Culv	art Inan	action				
Pridgo Filo Nu	ımbor	77470 1	Bridge Culve	r+	Bridge Culv		ert Inspection Form Type		CUL1			
Bridge File Nu Year Built	imbei	1973	bridge Cuive	r t		Lot No.		•				
Bridge or Town Name NORDEGG								Owen Salava				
				3 RY TO SHUNDA CREEK, 6.166.1,				tor Name	Owen Salava BR CLS A			
Located Over TRIBUTA WATERC				NDA CRE	⊏N, 0.	100.1,		·				
Located On 11:06 C1			13.361				Assistant Name					
Water Body C	I./Year						1.00.00	Assistant Class Inspection Date 06-Feb-2012				
Navigabil. Cl./							· ·	Data Entry By Marcia Chavez				
Legal Land Lo		NW SEC	31 TWP 40 F	RGE 13 W	'5M				Marcia Chavez 02-Mar-2012			
Longitude, Lat		-115:52:1	17, 52:29:38				Data Entry Date Reviewer Name					
Road Authorit	У	Alberta T	ransportation	(AIT)			Review Date		John O'Brien 23-Feb-2012			
Contract Main		CMA18	Tansportation (Arr)									
Clear Roadwa	y/Skew	13.6 / 10	deg. (RHF)				<u> </u>		e Andrew Smiki	es		
AADT/Year 970 / 201						Dept. Review Date 21-Mar-2012						
Road Classification RAU-213						Follow	Follow-Up By					
Detour Length (km) 80												
Bridge Culve		1										
Number of Culverts 1												
Pipe #	Barrel	S	Span	Rise (or Dia.)		Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	2314 2552			SPE		105.5	152X51		ELLIPSE		
Special Features							'					
Special Features Comment												
					Ut	ilities (l	ocated	at)				
Utility Attachm												
Telephone	South	r/w.					Gas					
Power							Munici	pal				
Others	Bench	n mark loc	ated NW 50m	١.			Proble	m (Y/N) No				
Remarks												
				Ap			1	ankment				
Llawina mtal Alia								nation of Cond				
Horizontal Alignment Vertical Alignment			7	7	Inbetw	een two curve	s. in sag.					
Vertical Alignment Roadway Width (m) 13.600				7	7							
Roadway Wid	uri (III)		13.000									
Embankment					4	4	Embar	nkment slumpir	ng D/S East side	- photo.		
Sideslope (_	:1)		2.5									
(Height of C	over(m)	: 13.5)										
Guardrail (Y/N	I)		Yes									
Approach Ro	ad / Emi	bankment	t General Rat	ing	4	7						
						Upstre	am End	<u> </u>				
Culvert Comp	onent				Last	Now		nation of Cond	dition			
Direction					N							
End Treatmen	t (Concr	ete, Steel,	STEEL									
Others, None) Headwall	<u> </u>				X	X						
Collar					X	X						
Wingwalls					X	X						
(Shape :)				^	^						
Cutoff Wall)				Х	Х						

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	Flowing under bevel due to bevel heave (photo).
Heaving (mm)	500			
Invert Above/Below Stream Bed				At streambed.
Above/Below (mm)	0			, a di danisda.
Scour Protection	10	4	4	Bevel edges exposed.
(Type : NONE)				Devel edges exposed.
(Avg. Rock Size(mm):)				
Scour/Erosion		4	1	Minor scour.
Scour/Erosion		4	4	Millor Scour.
Beavers (Y/N)	No			
Harden - Fall Committee - I Bardina				
Upstream End General Rating		4	4	
				lvert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN,	Span (mm): 2314	, Rise (mm): 2552, Type: SPE)
Barrel Last Accessible Date	06-Feb-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				Health to green we have to be
Roof	0.400	N	5	Unable to measure due to ice.
Measured Rise (mm)	2408			
Measured At Ring No.	2			
Sag (mm)	144			
Percent Sag	5			
Sidewall	I	N	3	Cracked sidewall seams.
Measured Span (mm)	2485			
Measured At Ring No.	2			
Deflection (mm)	171			
Percent Deflection	7			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	Where visible; 1 ring cracked - 2nd from d/s.
Separation (mm)	0] , J
Longitudinal Seams		N	3	From inlet R1-6 cracked E side; R2 worst 53mm of steel left - photo
Total No. of Cracked Rings	9			R2,3,5,28-29 remaining.
Total No. of Rings with Two Cracked Seams	0			R27-29 cracked.
Min. Remaining Steel Between Cracks (mm)	53			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	5	Superficial.
	Yes	IN	J	очреннов.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

77479 -1 Bridge Culvert

		Brio	lge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2314	, Rise (mm): 2552, Type: SPE)
Fish Passage Adequacy		3	3	Perched outlet - photo.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	Yes			
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		S		
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	Superficial rust. Perched outlet - photo.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1500			
Scour Protection		3	3	Rock is not providing enough protection. Some rock, natural - photo.
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		3	3	Scour hole 1.5m x 8m x 8m.
Beavers (Y/N)	No			End cantilevered for 1.5m.
Downstream End General Ratin	ng	3	3	
		s	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		5	5	Minor sluffing of banks @ D/S.
HWM (m below Top of Culvert)	0.3			Drift above barrel on sideslope.
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		5	6	

			Maintenance Recommendations	scommenda	ıtions					
Inspector Recommendations	Year	Inspecto	Inspector Comments		Department Comments	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP	2012	Class II	Class II 40m3 at d/s.							
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	2012	Concrete	Concrete beams @ cracked seams.							
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION	2012	Consider instaembankment.	Consider installing weeping tile @ D/S embankment.	S/						
OTHER ACTION	2012	30m3 pit D/S.	30m3 pit run under bevel & in scour hole D/S.	hole @						
OTHER ACTION	2012	Restore	Restore embankment at D/S end.							
OTHER ACTION	2012	Install U	Install U/S concrete end treatment.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	33.3/33.3	3.3	Sufficiency Rating (Last/Now) (%)		20.7/30.8	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		Es	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name O	Owen Salava			Previous A	Previous Assistant's Name					
Next Inspection Date 06	06-Nov-2013			Previous Ir	Previous Inspection Date	03-May-2010				
Inspection Cycle (Default) (months) 21										
Comment										

			Maintenance Red	commen	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department C	Comments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP	2012	Class II	40m3 at d/s.		Class II after Bevel Prograi	backfill is complete of mmed	U/S	2013		
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	2012	Concrete	e beams @ cracked seams.		Defer					
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF	=									
REPAIR SEAMS										
OTHER ACTION	2012	Conside embankı	r installing weeping tile @ D ment.)/S	Defer, D/S lov undermining/	v priorrity for piping				
OTHER ACTION	2012	30m3 pit run under bevel & in scour hole @ D/S.		hole @	Defer, D/S lov undermining/	v priorrity for piping				
OTHER ACTION	2012	Restore embankment at D/S end.			Defer, D/S low priorrity for undermining/piping					
OTHER ACTION	2012	Install U/S concrete end treatment.			Clay Seal & F	Reset Bevel Programn	ned	2013		
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now (%)) 33.3/33	3.3	Sufficiency Rating (Last/I	Now)	20.7/30.8	Est. Repl. Yr	2015	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments	Currently programme	ed to be	replaced in 201	19.	
Maintenance Reviewed By And	drew Smikle	es			Date	31-Oct-2012		Estimated Tota	al O	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Ow	en Salava			Previous	Assistant's Nar	me				

Alberta Transportation Bridge Inspection & Maintenance System (Web 2005)

77479 -1 Bridge Culvert

Next Inspection Date	06-Nov-2013	Previous Inspection Date	03-May-2010
Inspection Cycle (Default) (months)	21		
Comment			