					Brido	ae Culve	ert Insp	ection						
Bridge File Number 80587 -1 Bridge Culvert					Bilag	jo Gaiv	Form							
Year Built		1986			Lot N				1	CUL1				
Bridge or Town	n Name	SUNDRI	 E					tor Name	Owen Salava					
Located Over			ARY TO JACK	(SON CR	EEK, 3	3.96.1,	Inspector Class		BR CLS A					
		WATER	CRS-ST			,	Assistant Name			DI GLO II				
Located On		22:20 C	1 9.562				Assistant Class							
Water Body Cl	./Year						Inspection Date		19-Oct-2012	19-Oct-2012				
Navigabil. Cl./	Year						· ·	Intry By	Marcia Chave	Marcia Chavez				
Legal Land Lo	cation	NW SEC	33 TWP 33 F	RGE 5 W	5M			Intry Date		09-Nov-2012				
Longitude, Lat	itude	-114:39:	47, 51:52:51					ver Name	John O'Brien					
Road Authority	/	Alberta 7	Fransportation	(AIT)			Review			30-Oct-2012				
Contract Main.	Area	CMA29					Dept. I	Reviewer Nan	ne Andrew Smik	les				
Clear Roadwa	y/Skew	14.5 / -1	5 deg. (LHF)					Review Date	19-Nov-2012					
AADT/Year		2,270 / 2	2011 (A)					-Up By						
Road Classific	ation	RAU-210	D-110					- 1 7						
Detour Length	(km)	3												
Bridge Culver														
Number of Cul	verts	1												
Pipe #	Barrel	Span Rise (or l			Dia.)	Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN	-		SP		61	152X51	3.0	ROUND					
1 MAIN - 2134 Special Features										·	·			
Special Featur		ment												
					Ut	ilities (L	Located	at)						
Utility Attachm	ents													
Telephone	West	r/w.					Gas							
Power							Munici							
Others							Proble	m (Y/N) No						
Remarks														
				Α				ankment						
								nation of Cor						
Horizontal Alig					7	7	Climbi	ng lane North ed North of BF	oound. No passir 80586.	ig. Intersection	150m North.			
Vertical Alignm			1		6	6								
Roadway Widt	th (m)		14.500											
Embankment					6	6	4:1 the	en to 2.5:1 Wi	de transverse cra	ack S of nine in	reviously sealed.			
Sideslope (_:1) 2.5			J	J J	1.1 1110	to 2.0.1. VVI	as nanovoise oi	acit o oi pipe, p	. Oviously scaled.					
(Height of Co		: 5.5)												
Guardrail (Y/N		. 0.0)	Yes											
Approach Roa	ad / Fml	bankmen	t General Rat	tina	6	6								
Approudit NO	/ EIIII	- withing i	. Conoral Na	9										
							am End		1141					
Culvert Comp	onent				Last	Now	Explai	nation of Cor	aition					
Direction	+ /O =	-1- 0: 1	CTEE		W									
End Treatment Others, None)	t (Concr	ete, Steel	, STEEL											
Headwall					Х	X								
Collar					Х	Х								
Wingwalls					X	Х								
(Shape:)													
Cutoff Wall					Х	X								
							1							

80587 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	6	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm) :	, Rise (mm): 2134, Type: SP)
Barrel Last Accessible Date	19-Oct-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	3	Slight roof seam flattening.
Measured Rise (mm)	1900			
Measured At Ring No.	2			
Sag (mm)	234			
Percent Sag	11			
Sidewall		N	4	
Measured Span (mm)	2300			
Measured At Ring No.	2			7.8%
Deflection (mm)	166			1.076
Percent Deflection	8		,	
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No		,	
Circumferential Seams		N	6	Water coming through bevel seam @ North haunch.
Separation (mm)	0		_	
Longitudinal Seams		N	6	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	6	Minor superficial corrosion along floor and at seams.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

			dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 2134, Type: SP)					
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		5	5	(Ice within 700mm of crown. 03Feb2011).					
Icing (Y/N)	Yes			1					
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		E							
End Treatment (Concrete, Steel, Others, None)	STEEL		_						
Headwall		Х	Х						
Collar		X	X						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm) 500									
Scour Protection		N	5						
(Type: RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		N	5						
Beavers (Y/N) No									
Downstream End General Ratin	ng	5	5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		5	5						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

		Maintenance Recommendations	ecommendatio	suc					
Inspector Recommendations	Year	Inspector Comments	De	Department Comments	nents	Ĕ	Target Year	Est. Cost	Cat#
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF									
REPAIR SEAMS									
OTHER ACTION	2012	Assess if strut needed; consider Lvl 2 to measure plate curvature, i.e. chord offsets.	2 to offsets.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)) 33.3/33.3	3 Sufficiency Rating (Last/Now) (%)		44.0/44.9	Est. Repl. Yr	2018	Maint. Reqd. (Y/N)		o _N
Special Comments for Next Inspection			Co	Department Comments					
Maintenance Reviewed By			Date	ite		Esti	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name O	Owen Salava		Previous Assistant's Name	stant's Name					
Next Inspection Date	19-Jul-2014		Previous Inspection Date	ection Date	03-Feb-2011				
Inspection Cycle (Default) (months) 21	_								
Comment									

				Maintenance	Recommen	dations						
Inspector Recommendations		Year	Inspecto	or Comments		Department C	commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LININ	G											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUT	OFF											
REPAIR SEAMS												
OTHER ACTION		2012	Assess if strut needed; consider Lvl 2 to measure plate curvature, i.e. chord offsets.			Continue to m	onitor c	on regular BIM				
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No. (%)		33.3/33.3 Sufficiency Rating (L (%)		ast/Now)	44.0/44.9	44.0/44.9 Est. Repl. Yr		2018	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection						Department Comments	Curren	t regional nee	ed year is	2018		
Maintenance Reviewed By	Andrev	w Smikle	s			Date	07-Jan	-2013		Estimated Tota	1 0	
Proposed Long-Term Strategy			-			1200	, , , , , ,					
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name		Salava			Previous	Assistant's Nan	ne					
Next Inspection Date	19-Jul-	-2014			Previous	s Inspection Date 03-Feb-2011						
Inspection Cycle (Default) (months)	21											
Comment												