					Bridg	je Culve	ert Insp	ection							
Bridge File Num	ber	72605	-1 Bridge Culver	t			Form Type			CUL1					
Year Built 1954 Bridge or Town Name STONY PLAIN							Lot No			4					
Bridge or Town	Name	STONY	Y PLAIN	PLAIN				pector Name Wade Nanninga							
Located Over		TRIBU	TARY TO KILINI	ARY TO KILINI CREEK, 6.65.19.3, CRS-ST				Inspector Class BR CLS A							
Located On			_1 49.493;16:12	R1 49 47	'4			ant Name ant Class							
Water Body Cl./	Year	10.12	21 40.400,10.12												
Navigabil. Cl./Ye								tion Date		07-Aug-2012					
		SE SE	C 17 TWP 53 R	3F 2 W5I	\ <u>/</u>			ntry By		Theresa Lacusta					
Legal Land Location SE SEC 17 TWP 53 RGE 2 Longitude, Latitude -114:15:09, 53:34:13				JL Z 1101	VI			ntry Date		26-Aug-2012					
Road Authority Alberta Tra Contract Main. Area CMA11					Reviewer Name Eric Carcoux										
Contract Main. Area CMA11		·			Review Date 21-Aug-2012										
Clear Roadway/Skew 22.8 /					Dept. Reviewer Name Brent Herrick										
AADT/Year 13,120 / 2 Road Classification RAD-412.		/ 2011 (A)			Review Da	ate	30-Aug-2012								
· ·				Follow	-Up By										
Detour Length (I	km)	1													
Bridge Culvert		ation													
Number of Culve	erts		1												
Pipe #	Barrel		Span	Rise (or Dia		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape			
1 [MAIN		-	1520		MP		59.7		68X13	2.8	ROUND			
Special Features	S		VERT TIMBER	STRUTS	3			<u> </u>			<u>'</u>				
Special Features	s Comr	nent													
								- 4)							
Little Attackmen	-1-				Ut	ilities (L	<u>-ocated</u>	at)							
Utility Attachmer	South	m/s.,					Gas								
Telephone			m/s.,					nal							
Power 7 wires North r/w. Others					Munici	pai m (Y/N)	No								
Remarks	-						FIODIE	III (171 N)	INO						
Remarks				Δι	nnroa	ch Road	l / Emb	ankment							
					Last			ation of	Condi	tion					
Horizontal Aligni	ment				7	7		ach NE o							
Vertical Alignme					7	7	1								
Roadway Width (m)		22.800				EBL 10	EBL 10.9m, WBL 11.9m.								
Embankment 22.800			7	7											
		4.0		-											
(Height of Cov	/er(m) :	3.9)													
Guardrail (Y/N)	, ,	,	No												
Approach Road	d / Emb	oankme	ent General Rati	ing	7	7									
						Upstre	am End								
Culvert Compo	nent				Last	Now		nation of	Condi	tion					
Direction					N	111011			-						
End Treatment (Others, None)	(Concre	ete, Ste	el, STEEL												
Headwall					Х	Х									
Collar					Х	Х									
Wingwalls					Х	Х									
(Shape:)															
Cutoff Wall			Х	X											

			Llactro	om End
Culvert Component			Now	Explanation of Condition
Bevel End		Last 7	7	Explanation of Condition
Heaving (mm)	100	/		
	ABOVE			
Above/Below (mm)	100	-	-	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)		1		
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 1520, Type: MP)
Barrel Last Accessible Date	07-Aug-2012			
Special Features				
Special Feature		7	7	6" x 6" & 4" x 6" average 1.5m spacing.
(Type: VERT TIMBER STRUTS)				
Special Feature				
(Type:)		'		
Roof		5	5	
Measured Rise (mm)	1410			
Measured At Ring No.				@ CL
Sag (mm)	110			
Percent Sag	7			-
Sidewall	,	5	5	
	1580	3	3	
Measured Span (mm)	1360			@ CL
Measured At Ring No.	60			
Deflection (mm)	60			
Percent Deflection	4			
Floor		5	5	Minor superficial rust. Some scaling & pitting.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		3	5	80mm separation on roof between coupler and 2nd last barrel
Separation (mm)	130			section. Steel plate installed.
Longitudinal Seams		7	7	Riveted connections. Heavy corrosion on some riveted connections.
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		4	4	500mm strip along floor has scaling rust with pitting.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Inspection & Maintenance System (Web 2005)

72605 -1 Bridge Culvert

		Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1520, Type: MP)			
Fish Passage Adequacy		5	5				
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		7	7				
Icing (Y/N)	No			Few sticks @ U/S end of struts.			
Silting (Y/N)	No						
Drift (Y/N)	Yes						
Barrel General Rating		5	5				
		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	X				
Wingwalls		Х	Х				
(Shape:)							
Cutoff Wall		Х	X				
Bevel End		5	5	Protruding from fill 300mm. Settlement SE.			
Heaving (mm)	0						
Invert Above/Below Stream Bed							
Above/Below (mm)	0						
Scour Protection		4	4	D/S scour hole. Bevel unsupported for 200mm.			
(Type : NONE)							
(Avg. Rock Size(mm):)							
Scour/Erosion		4	4	Scour hole at downstream end .6 m x 4 m x 6 m.			
Beavers (Y/N)	No						
Downstream End General Ratin	ng	4	4				
		Structu		re Usage			
			Now	Explanation of Condition			
Channel (U/S and D/S)							
Alignment		5	5	Stream makes sharp bend West D/S from D/S bevel.			
Bank Stability		5	5	Vertical banks.			
HWM (m below Top of Culvert)				HWM not visible.			
Drift (Y/N)	No						
Channel Bottom Degrading/Aggrading	NONE						
Beavers (Y/N)	No						
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating		5	5				

		Maintenanc	e Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Cor	mments	-	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	3							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	low) 55.6/55	Sufficiency Rating (L. (%)	ast/Now) 60.6/60.6	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	No
Special Monitor scour and Comments for Next Inspection	circum. seams.		Department Comments					
Maintenance Reviewed By			Date		Es	stimated Tota	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
D 1.4.4								
Proposed Action								
Previous Inspector's Name	Kris Bosters		Previous Assistant's Name					
	Kris Bosters 07-May-2014		Previous Assistant's Name Previous Inspection Date	07-Oct-2010				
Previous Inspector's Name								