Bridge Culvert Inspection														
Bridge File Num	ber 7	73826 -	1 Bridge Culver	rt			Form 7	уре		CUL1				
Bridge File Number 73826 -1 Bridge Culvert Year Built 1989 Bridge or Town Name BROOKS Located Over TRIBUTARY TO LITTLE SANDHILL 3.10.2, WATERCRS-ST Located On 1:18 L1 27.168;1:18 R1 27.153 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location NE SEC 2 TWP 18 RGE 13 W4M Longitude, Latitude -111:40:48, 50:29:47 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA23 Clear Roadway/Skew 25 / 25 deg. (RHF) AADT/Year 6,650 / 2011 (A) Road Classification RFD-412.4-130 Detour Length (km) 1 Bridge Culvert Information							Lot No			4				
Bridge or Town	Name E	BROOK	(S				Inspector Name		Tom Carey					
Located Over	ן	TRIBUT	TARY TO LITTL	E SANDI	HILL C	REEK,	Inspector Class			BR CLS A				
Located On							Assista	ant Name						
		1.10 L1	21.100,1.10 K	1 27.103				Assistant Class						
							Inspection Date 15-Feb-2012							
Navigabil. Cl./Year Legal Land Location NE SEC 2 Longitude, Latitude -111:40:48 Road Authority Alberta Tra Contract Main. Area CMA23 Clear Roadway/Skew 25 / 25 deg AADT/Year 6,650 / 201 Road Classification RFD-412.4 Detour Length (km) 1 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Spa			2 TWD 18 DC	E 13 \\//	N /			ntry By		Lauren Korte				
			IVI		Data Entry Date		26-Mar-2012							
				(ΔΙΤ)				Reviewer Name Garry Roberts						
				Review Date				26-Feb-2012						
								Reviewer						
			Dept. Review Date			29-Mar-2012								
							Follow-Up By							
		-					l			1				
			1											
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 [MAIN		2130	1400	400			78		68X13	4.2	ARCH		
Special Features	 S					'								
Special Features	s Comm	ent												
					Uti	lities (L	ocated	at)						
Utility Attachments														
Telephone	South c	ditch.					Gas							
Power	North s	ide, 5-\	wire, heavy duty	′ .			Munici	pal						
Others	40 m FI	ROM C	C.L.				Proble	m (Y/N)	No					
Remarks F.O. cable North R/W.														
			Approach Road											
					Last		Intersection 300m East.							
Horizontal Aligni					7	7	Interse	ction 300	m East	t.				
Vertical Alignme					9	9								
Roadway Width	(m)		25.000											
Embankment					7	7								
Sideslope (:	·		4.0											
(Height of Cover(m) : 1.8)			_											
Guardrail (Y/N)			Yes											
Approach Road	d / Emba	ankme	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explar	ation of	Condi	tion				
Direction					N		North 6	end.						
End Treatment (Others, None)	(Concret	te, Stee	el, STEEL											
Headwall					X	X								
Collar			Х	Х										
Wingwalls			Х	Х										
Wingwalls (Shape:)														
Cutoff Wall				Х	Х									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection	1_00	7	7	Well ingrown.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	·	5	5	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			· ·
Barrel Last Accessible Date	15-Feb-2012			
Special Features	1			
Special Feature				
(Type:)				
Special Feature				
(Type :)				
Roof		6	7	
Measured Rise (mm)	1400			
Measured At Ring No.	8			
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	7	Measured @ steel @ floor.
Measured Span (mm)	2180			
Measured At Ring No.	8			
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	5090 dirt covered.
Bulge (mm)	50	IV	IN	5090 dirt covered. 50mm dirt bulge isolated @ ring 9 only.
Measured At Ring No.	9			
Abrasion (Y/N)	No			
Circumferential Seams	140			50m Vertical gap @ 2/3 L - foam sealed @ floor.
	50	5	5	_ 50111 vertical gap ₩ 2/3 L - 10a111 Sealed ₩ 1100f.
Separation (mm)	30		V	
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		4	4	CORROSION WITH SOME PITTING along both sidewalls towards
Corrosion By Soil (Y/N)	No			floor.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm): 2130	, Rise (mm): 1400, Type: FP)						
Fish Passage Adequacy		Х	Х							
Baffle		X	X							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		6	7							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		S		South end.						
End Treatment (Concrete, Steel, Others, None)	ete, Steel, STEEL									
Headwall		Х	Х							
Collar		X	X							
Wingwalls		X	X							
(Shape:)										
		Х	Х							
Bevel End		5	5	MINOR SUPERFICIAL CORROSION top of bevel.						
Heaving (mm)	0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm)	200									
Scour Protection		7	7	Well ingrown.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		7	7	Ditch drainage pipe @ SE.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	5	5							
		S	tructur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		6	6	Curves in from North. HEAVY BRUSH IN CHANNEL.						
Bank Stability		7 7								
HWM (m below Top of Culvert)				No HWM visible.						
Drift (Y/N) No										
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)										
Channel General Rating		6	6							

73826 -1 Bridge Culvert

		Maintenar	nce Recommendation	s					
Inspector Recommendations	Year	Inspector Comments		artment Comm	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS			r				J. J		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	ì								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 66.7/77	Sufficiency Rating (%)	(Last/Now) 66.3/7	1.5	Est. Repl. Yr	2028	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Dep	artment nments					
Maintenance Reviewed By			Date)		E	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Jason Rusu		Previous Assist	ant's Name					
Next Inspection Date	15-Nov-2013		Previous Inspec	ction Date	07-Aug-2010				
Inspection Cycle (Default) (months)	21								
Comment									