Bridge Culvert Inspection													
Bridge File Nur	nber	70134	-2 Bridge Culve	rt			Form Type		CULE				
Year Built/Line	b	1959/2001				Lot No.				4			
Bridge or Town	Name	BRANT	-				Inspec	tor Name		Tom Carey			
Located Over		TRIBU	TARY TO WES	T ARROV	vwoo	D	Inspector Class		BR CLS A				
		CREE	K, 2.13.18.6, W/	ATERCRS	S-ST		Assistant Name						
Located On	Located On 23:08 C1 2.579					Assistant Class							
Water Body Cl.	/Year						Inspec	tion Date		18-Feb-2013			
Navigabil. CI./Y	'ear						Data E	ntry By		Anne Roberts			
Legal Land Loc	egal Land Location SE SEC 5 TWP 19 RGE 24 W4N				M		Data Entry Date			17-Mar-2013			
Longitude, Latit	tude	-113:17	7:38, 50:34:20				Reviev	Reviewer Name		Garry Roberts			
Road Authority		Alberta	Transportation	(AIT)		Review Date				03-Mar-2013			
Contract Main.	Area	CMA27	·				Dept. F	Reviewer N	Name	Tim Davies			
Clear Roadway	/Skew	12.9/					Dept. F	Review Da	ate	25-Mar-2013			
AAD1/Year		1,040 /	2011 (A)				Follow	-Up By					
Road Classifica	ation	RAU-2	13.4-120				-						
Detour Length	(km)	6											
Bridge Culvert	Inform	ation	0										
Dine #	Perts		2 Shan	Dice (-		T		Lorenth		Corr Drofile		Chana	
Pipe #	Barrei		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Thickness	Snape	
1	MAIN F Lined	Partially	2315	2560		RPE		47.5		152X51		ELLIPSE	
2	MAIN PARTIA LINER	۹L	-	1900		MP		42		125X26	3.5,3.0	ROUND	
Special Feature	es			1									
Special Feature	es Comr	ment											
					Uti	lities (L	ocated	at)					
Utility Attachme	ents												
Telephone	South	ו ditch.					Gae						
_							045						
Power	1 line	North di	tch 20 m from o	c/I.			Munici	pal					
Power Others	1 line	North d	tch 20 m from o	c/I.			Munici Proble	pal m (Y/N)	No				
Power Others Remarks	1 line	North di	tch 20 m from o	c/l.			Munici Proble	pal m (Y/N)	No				
Power Others Remarks	1 line	North di	tch 20 m from o	c/l. A	oproad	ch Road	Munici Proble	pal m (Y/N) ankment	No	ion			
Power Others Remarks	1 line	North di	tch 20 m from o	c/l. A	oproac Last	ch Road Now	Munici Proble	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Align	1 line	North di	tch 20 m from o	D/I. A	oproac Last 9	ch Road Now 9 7	Munici Proble	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width	1 line	North di	12 900	c/l. A	oproad Last 9 7	ch Road Now 9 7	d / Emb	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width	1 line nment ent n (m)	North di	tch 20 m from o	c/l. A	Deprozo Last 9 7	ch Road Now 9 7	Munici Proble	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment	1 line	North di	tch 20 m from o	c/l. A	pproac Last 9 7	ch Road Now 9 7	d / Emble	pal m (Y/N) ankment aation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 line 1 line 1 line 1 (m) 1 line	North di	tch 20 m from o	c/l. A	9 Last 9 7	Ch Road Now 9 7	Munici Proble	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 lin	2.5)	tch 20 m from o	D/I.	9 7 7	ch Road Now 9 7	d / Emble	pal m (Y/N) ankment nation of (No	ion			
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 ment ent n (m) .:1) ver(m) :	2.5)	tch 20 m from o	D/I.	oproad Last 9 7 7	ch Road Now 9 7	d / Emble	pal m (Y/N) ankment nation of (No	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 line	2.5)	tch 20 m from of 12.900 4.0 No nt General Rat	5/I. A	9 7 7 7	Ch Road Now 9 7 7	d / Emble	pal m (Y/N) ankment nation of (No	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 lin	2.5)	tch 20 m from o	c/l. A	9 7 7 7	ch Road 9 7 7 7	d / Emble	pal m (Y/N) ankment nation of (No	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 line	2.5)	tch 20 m from o	c/l.	9 7 7 7 7 Last	Koad Now 9 7 7 Upstre Now	am Enc Explar	pal m (Y/N) ankment nation of (No	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 lin	2.5)	tch 20 m from of a second seco	c/l.	9 7 7 7 7 Last	Ch Road Now 9 7 7 Upstre Now	am End Explar	pal m (Y/N) ankment hation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 line 1 line 1 line 1 line	2.5)	tch 20 m from of a second seco	c/l.	9 Last 9 7 7 7 Last	Ch Road Now 9 7 7 Upstre Now	am Enc	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1	2.5) bankme	tch 20 m from of 12.900 4.0 No nt General Rate ary Span) el, STEEL	c/l.	Performance Last 9 7 7 7 Last	Koad Now 9 7 7 Upstre Now	am End	pal m (Y/N) ankment nation of (No Condit	ion			
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (1 line 1 line	2.5) bankme	tch 20 m from of 12.900 4.0 No nt General Rate ary Span) el, STEEL	c/l.	Performance Last 9 7 7 Last N X	Image: horizon of the second state	am End Explar	pal m (Y/N) ankment nation of (Condit	ion			

Alberta Transportation

	1		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		9	N	
Bevel End		9	9	3m of original SP with concrete floor.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		9	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Upstream End General Rating	1	9	9	GR carried forward.
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 2315	5, Rise (mm): 2560, Type: RPE)
Barrel Last Accessible Date	18-Feb-2013			CSP liner 1900mm diameter
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	50 mm ice on floor.
Measured Rise (mm)	1910			
Measured At Ring No.	1			
Sag (mm)	10			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	1930			
Measured At Ring No.	1			
Deflection (mm)	30			
Percent Deflection	1			
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			1
Circumferential Seams		7	7	
Separation (mm)	20			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

70134 -2 Bridge Culvert

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>): 2315	, Rise (mm): 2560, Type: RPE)
Coating		8	6	Superficial corrosion on length of floor - only haunches seen.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy			X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1. Span Type: Primary	/ Span)			1 P
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		Х	X	
Collar		Х	X	
Wingwalls		x	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		Х	Х	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		X	X	
Beavers (Y/N)				
Downstream End General Ration	ng	N	N	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		Ν		
End Treatment (Concrete, Steel, Others, None)				
Headwall		Х	Х	
Collar		Х	Х	
				·

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Wingwalls		X	X	_
(Shape :)				
Cutoff Wall			X	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		Х	Х	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		Х	Х	
Beavers (Y/N)	No			
Upstream End General Rating		N	N	
		Brie	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1900, Type: MP)
Barrel Last Accessible Date				
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Туре :)				
Roof		Х	Х	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		Х	Х	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		Х	Х	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		Х	Х	
Separation (mm)				
Longitudinal Seams		Х	Х	
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)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel							
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1900, Type: MP)				
Coating		X	X					
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)								
Camber POS/ZERO/NEG								
Ponding (Y/N)	No							
Fish Passage Adequacy		Х	Х					
Baffle		X	Х					
(Type :)								
Waterway Adequacy		X	Х					
lcing (Y/N)								
Silting (Y/N)								
Barrel General Rating		N	N					
Barrer General Kating								
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Direction		S						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		Х	Х					
Wingwalls		X	X					
(Shape:)		1						
Cutoff Wall		9	9					
Bevel End		9	9	3m of original SP with concrete floor.				
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	200							
Scour Protection		9	9					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 350)								
Scour/Erosion		9	9					
	1							
Beavers (Y/N)	No							
Downstream End General Ratin	ng	9	9					
		S	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		1	1					
Alignment		7	7	Drop structure 60 m North. Dugout 30 m North.				
Bank Stability		7	7					
HWM (m below Top of Culvert)			1	None visible				
Drift (Y/N)	No							
	UNU							

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

			Maintenance Reco	ommenda	ations					
Inspector Recommendations		Year	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTC	DFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow)	77.8/77.	8 Sufficiency Rating (Last/No (%)	Now) 79.7/79.7		Est. Repl. Yr	st. Repl. Yr 2048		qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tom C	arey	F	Previous A	us Assistant's Name					
Next Inspection Date	18-Nov	/-2014	F	Previous Inspection Date 18-May-2011						
Inspection Cycle (Default) (months)	21									
Comment										