Bridge Culvert Inspection														
Bridge File Number 01748 -1 Bridge Culvert							Form Type		CULE					
Year Built	r Built 1954						Lot No.		2					
Bridge or Town Name CALMAR							Inspector Name		Todd Warshawski					
Located Over 2ND ORDER TRIBUTARY TO							Inspector Class		BR CLS B					
WATERCRS-ST				K, 6.112.	4.2,		Assistant Name							
Located On 622:02 C1 15 511							Assistant Class							
Water Body Cl	/Year						Inspection Date		16-Mar-2012					
Navigabil CL/Y	/ rour						Data Entry By		Lisa Fairhurst					
Legal Land Location NW SEC 29 TWP 49 RGE 1 W5M					5M		Data Entry Date			20-Apr-2012				
Longitude Latitude -114:07:06 53:15:54							Reviewer Name		Eric Carcoux					
Road Authority Alberta Transportation (AIT)							Review Date		09-Apr-2012					
Contract Main	Area	CMA11		(/)			Dept. Reviewer Name		Brent Herrick					
Clear Roadway	/Skew	91/					Dept. Review Date		04-May-2012					
AADT/Year		650/2	011 (A)				Follow-Up By							
Road Classifica	ation	RAU-2	09-110											
Detour Length	(km)	5												
Bridge Culver	t Inform	ation					<u> </u>			1				
Number of Culv	/erts		1											
Pipe #	Barrel		Span	n Rise (or D		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	U/S		1724	1901	SPE			38.4		152X51	3.0	ELLIPSE		
1	MAIN		2000	2000	BP			49				SQUARE		
1	D/S		-	1800		MP		20		125X26	2.8	ROUND		
Special Feature	es		BARREL ELBO	DW, VER⁻		TIMBER STRUTS								
Special Feature	es Comi	ment												
-														
					Uti	lities (L	ocated	at)						
Utility Attachme	iments						-							
Telephone	South	uth ditch					Gas							
Power	1 wire 25m North.						Munici	bal						
Others							Proble	m (Y/N)	No					
Remarks	BF ta	g on sou	ith bevel											
				A	oproac	ch Road	l / Emba	ankment	0	1				
Horizontal Alian	mont							ation of	d to the	tion				
Nortical Alignm	ont				0	0								
Roadway Width	n (m)		9.100		0	0								
Embookmont					N	7	Cullus are well vegitated and tread							
	•1)		2.0		ÍN	1	- Sunys are wer vegitated and treed.							
(Height of Co	1)	20)	3.0				1							
	ver(m).	. 20)	Voo											
			Tes											
Approach Road / Embankment General Rating				7	7									
						Upstream End								
Culvert Comp	onent				Last	Now	Explan	ation of	Condi	tion				
Direction					S									
End Treatment Others, None)	End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall					V	V	1							

		am End						
Culvert Component		Last	Now	Explanation of Condition				
Wingwalls		Х	Х	-				
(Shape :)								
Cutoff Wall		Х	X					
Bevel End		N	6					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection		N	N	(Grassed in, not much rock visible. 22/Sept/2005) Snow covered.				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		N	N	Snow covered.				
Beavers (Y/N)	No							
Upstream End General Rating		6	6					
			1					
Culvert Component		Brid		Explanation of Condition				
(Pipe # : 1 Primary Span Local	tion Codo: U/S. Snan		1724 E	Explanation of Condition				
Rarrol Lost Accessible Date	16 Mar 2012	(1111):	1724,1	(1001, 1901, 1906, SFE)				
Barrel Last Accessible Date	10-Mar-2012							
Special Features	·							
Special Feature			7					
(Type : BARREL ELBOW)								
Special Feature								
(Туре :)								
Roof		N	Х					
Measured Rise (mm)	1882							
Measured At Ring No.	5							
Sag (mm)	19							
Percent Sag	0							
Sidewall		N	8					
Measured Span (mm)	1777							
Measured At Ring No.	11							
Deflection (mm)	53			-				
Percent Deflection	3							
Floor	1	N	7					
Bulge (mm)	0			-				
Measured At Ring No.	5							
Abrasion (Y/N)	No		_					
Circumferential Seams		N	7					
Separation (mm) 0								
Longitudinal Seams		Х	7					
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)	No		_					
Coating	1	N	6					
Corrosion By Soil (Y/N)	No			-				
Corrosion By Water (Y/N)	Yes							

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loo	cation Code: U/S, Sp	oan (mm):	1724, I	Rise (mm): 1901, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type :)				
Waterway Adequacy		5	5	Rocks in barrel
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel Extension General Ra	ting	4	7	
		Brid	dqe Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loc	cation Code: MAIN,	Span (mm): 2000), Rise (mm): 2000, Type: BP)
Barrel Last Accessible Date	16-Mar-2012			
Special Features				
Special Feature			4	Wide vertical crack at elbow #3 - photo
(Type : BARREL ELBOW)			-	1
Special Feature				1
(Type:)				
Roof		N	7	
Measured Rise (mm)	2000			
Measured At Ring No.				1
Sag (mm)	0			
Percent Sag				
Sidewall		N	7	
Measured Span (mm)	2000		-	
Measured At Ring No.				
Deflection (mm)	0			1
Percent Deflection				1
Floor		N	N	Ice /silt covered.
Bulge (mm)	0			
Measured At Ring No.	-			1
Abrasion (Y/N)	No			1
Circumferential Seams		N	5	Upper seam at elbow #3 not seated. Does not appear to be any
Separation (mm)	50			infiltration.
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			1
Total No. of Rings with Two				1
Cracked Seams				-
Between Cracks (mm)				_
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				
Coating		N	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Inspection & Maintenance System (Web 2005)

01748 -1 Bridge Culvert

		Brie	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Lo	cation Code: MA	IN, Span (mm): 2000	, Rise (mm): 2000, Type: BP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	Х	
(Type :)			_	
Waterway Adequacy		5	5	Silt in box sections.
Icing (Y/N)	No			Debris/drift caught at box/csp connection.
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		4	7	
Ū				
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Lo	cation Code: D/S	5, Span (mm):	,	Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	16-Mar-2012			
Special Features			-	
Special Feature		N	6	(Struts not standard dimension. 3" x 12" struts & caps-sills.
(Type : VERT TIMBER STRU	TS)			-
Special Feature				
(Type :)			_	
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	3	
Measured Span (mm)	2007			10m from d/s
Measured At Ring No.	20			
Deflection (mm)				
Percent Deflection	11			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	
Separation (mm)	130		-	1
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0		~	
Total No. of Rings with Two				
Cracked Seams				
Between Cracks (mm)				-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				
Coating		N	5	(Superficial rust throughout. 22/Sept/2005)
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

01748 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: D/S, Span	(mm):	, F	Rise (mm): 1800, Type: MP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		5	5						
Baffle		Х	Х						
(Type :)		1	1						
Waterway Adequacy	1	5	5	(Drift collecting at first strut.					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel Extension General Ratin	g	4	4	G.R. increased by 1 due to struts.					
		م	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		X	X						
Bevel End	1	6	6	Erosion under bevel end for 0.5m. Bevel protruding 1.0m from fill.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE			-					
Above/Below (mm)	600		1						
Scour Protection		3	4	Most of riprap gone.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		3	4	Large scour hole 10 x 10 x 1.0m.					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	3	4						
		S	structu	ire Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment		6	5						
Bank Stability			5	Under snow.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading	Channel Bottom DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	5						

01748 -1 Bridge Culvert

				Maintenance Re	commend	ations					
Inspector Recommendations		Y	′ear	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT	ACCUMULATION	2	012	Remove drift from box/csp connection	n.						
INSTALL CONCR	ETE/STEEL LINING										
INSTALL STRUT	8										_
INSTALL CONCR	ETE COLLAR/CUTC	DFF									_
REPAIR SEAMS											_
OTHER ACTION											_
OTHER ACTION											
OTHER ACTION											_
OTHER ACTION								_			
Structural Condition Rating (Last/Now) (%)			44.4/44.4 Sufficiency Rating (Last/I (%)		low) 5	50.4/50.2	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	Yes
Special Monitor cracks in concrete box section. Comments for Monitor d/s erosion Next Inspection Monitor d/s erosion						Department Comments					
Maintenance Rev	iewed By					Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Jacob			Jacob Oresile Previo			s Assistant's Name					
Next Inspection Date 16-Jui		16-Jun-2	2015		Previous I	us Inspection Date 03-Feb-2009					
Inspection Cycle	Default) (months)	39									
Comment											