Bridge Culvert Inspection													
Bridge File Nun	nber	06684 ·	-1 Bridge Culver	rt			Form Type			CULM			
Year Built/Lineo	d	1952/19	990				Lot No			3			
Bridge or Town	Name	SHAUG	GHNESSY				Inspec	or Name	•	Jason Rusu			
Located Over		PIYAM	I COULEE, 2.12	2.16, WAT	16, WATERCRS-ST			or Class		BR CLS A			
Located On		25:02 C	C1 19.040				Assistant Name						
Water Body Cl.	/Year						Assistant Class						
Navigabil. Cl./Year			1					tion Date		09-Dec-2011			
Legal Land Location NW SEC			EC 31 TWP 10 RGE 21 W4M					ntry By		Anne Roberts			
Longitude, Latitude -112:50			50:46, 49:52:01					ntry Date	•	17-Jan-2012			
Road Authority Alberta			a Transportation (AIT)					er Name	•	Garry Roberts			
Contract Main. Area CMA25			;				Review Date			26-Dec-2011			
Clear Roadway	//Skew	12.5 /					Dept. F	Reviewer	Name	Tim Davies			
AADT/Year		3,100 /	2010 (A)				Dept. F	Review D	ate	18-Jan-2012			
Road Classifica	ation	RAU-2	11.8-110				Follow	Up By					
Detour Length	(km)	3					-						
Bridge Culvert	t Informa	ation								1			
Number of Culv	verts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
2	MAIN F LINER	ULL	-	1600		MP		60		68X13	3.5	ROUND	
3	MAIN F LINER	ULL	-	1600		MP		60		68X13	3.5	ROUND	
Special Feature	es												
Special Feature	es Comm	nent											
-													
					Uti	lities (L	ocated	at)					
Utility Attachme	ents								1				
Telephone	West a	and eas	t r/w			Gas							
Power	East d	ditch 3-wire 15m from c.l					Munici	bal					
Others	Fibre c	optics at	t east r/w				Proble	Problem (Y/N) NO					
Remarks													
				Ар		Now	Explor	ankment	Condi	tion			
Horizontal Alian	amont				Last	NOW	Curve to north superelevated no						
Vortical Alignm	ont				5	5	passing	passing s/b, limited sight distance.					
venical Alignmo	ent				5	5		· -					
	- ()		44 500										
Roadway Width	n (m)		11.500										
Embankment					7	7	2.1 0/	r nine					
Sideslope (_:1)		3.0				Bench at 6:1-3 m wide at west						
(Height of Co	ver(m):	7)					embankment.						
Guardrail (Y/N) Yes					-	W. side only - delineators E. side. Accident damage 7 sections from South							
Approach Roa	Approach Road / Embankment General Rating			ing	5	5							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion			
(Pipe # : 2, Sp	an Type	: Seco	ndary Span)										
Direction	Direction				W		South pipe						
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL										
Headwall			Х	X									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)		_	
Collar		X	X	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	Corrosion on the floor with pitting
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	-
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating	1	5	5	
		Det	dao Cu	Vort Barrol
Culvert Component		l ast	Now	Explanation of Condition
(Pipe # : 2 Secondary Span Lo	cation Code: MAIN	Span (_110W	Pice (mm): 1600, Type: MP)
Parrel Lest Assessible Date		, Span (i	<u></u>	Deg leg in both pince to parth
	09-Dec-2011			
Special Features				
Special Feature				S pipe
(Type :)			-	-
Special Feature				-
(Type :)				
Roof		6	6	_
Measured Rise (mm)	1560			-
Measured At Ring No.	4			_
Sag (mm)	40			-
Percent Sag	3			
Sidewall		6	6	_
Measured Span (mm)	1620			
Measured At Ring No.	4			_
Deflection (mm)	20			-
Percent Deflection	1			
Floor		5	4	Extensive corrosion w/pitting and scaling.
Bulge (mm)	0			-
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)				
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)				1
Longitudinal Stagger (Y/N)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1600, Type: MP)				
Coating		5	4	Corrosion with some pitting/scaling along floor and haunches				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	POS							
Ponding (Y/N)	No							
Fish Passage Adequacy	·	5	5					
Baffle		Х	Х					
(Туре :)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		6	6					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		E		South Culvert - east end				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		X	Х					
Bevel End		6	5	Corrosion on floor				
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		5	5	Rock at sides of bevel. None @ S/B & banks				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		5	5					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	5	5					
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 3, Span Type: Secondary Span)								
Direction				North pipe				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	Х					
Collar		X	Х					

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Wingwalls		X	X	
(Shape :)				
Cutoff Wall			X	
Bevel End		6	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	5	
		Brid	dge Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	09-Dec-2011			
Special Features				
Special Feature				N pipe
(Type:)				
Special Feature				
(Type :)				
Roof		6	6	Inward
Measured Rise (mm)	1620			
Measured At Ring No.	4			
Sag (mm)				
Percent Sag				
Sidewall		6	6	
Measured Span (mm)	1560			
Measured At Ring No.	4			
Deflection (mm)				
Percent Deflection				
Floor		5	4	Extensive corrosion and pitting
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	10			
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	ipan (n	nm):	, Rise (mm): 1600, Type: MP)					
Coating		5	4	Extensive corrosion with some pitting along floor					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								
Fish Passage Adequacy		5	5	fast flow steep grade					
Baffle		Х	Х						
(Type :)			1						
Waterway Adequacy		8	8						
Icing (Y/N)	No			-					
Silting (Y/N)	No			-					
Drift (Y/N)	No		1						
Barrel General Rating		6	6						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 3, Span Type: Second	ary Span)								
Direction		E		North East					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		6	5						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		6	6						
Beavers (Y/N)	No		1						
Downstream End General Ratir	ng	6	5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	90 deg cut bank at south u/s. West					
				Channel meanders through valley with 1.2 m high banks. drift @ u/s					
Bank Stability		5	5						
HWM (m below Top of Culvert)	0.4			Grass on banks and on fence					
Drift (Y/N)	No			ט.א וו שפוטש טוטשוו מו טעוופו, ט.א ווו שפוטש מו וווופו.					

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading	AGGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		5	5					

			Maintenance Recomm	mendat	tions					
Inspector Recommendations	Ye	'ear	Inspector Comments	C	Department Corr	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	20	012	Replace 2 guard rail sections (3.7 m x2) @	9 SW						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	ow) 66	66.7/66.7 Sufficiency Rating (Last/N (%)		67.	57.5/67.5 Est. Repl. Yr 2041		2041	Maint. Reqd. (Y/N) Yes		Yes
Special Comments for Next Inspection				C	Department Comments					
Maintenance Reviewed By				C	Date		E	Estimated Total	0	
Proposed Long-Term Strategy				İ						
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Jason Rusu Previo				us Assistant's Name					
Next Inspection Date 09-Se		2013	Previ	Previous Inspection Date 06-Jun-2010						
Inspection Cycle (Default) (months)	21									
Comment										