					Brida	e Culve	ert Insp	ection					
Bridge File Nur	mber	08202 -1	I Bridge Culve	rt			Form 1		CULM				
Year Built		1988	0				Lot No	••	2	2			
Bridge or Town	Name	VILNA					Inspec	tor Name	Wade Nannin	Wade Nanninga			
Located Over		TRIBUT	ARY TO STOP	NY CREE	K, 6.29	9.1.1.2,	Inspector Class		BR CLS A				
		WATER			·		Assistant Name						
Located On		28:10 C	1 11.516				Assistant Class						
Water Body Cl.							Inspection Date		10-Apr-2012	10-Apr-2012			
Navigabil. Cl./Y							Data Entry By		Lisa Fairhurst	:			
Legal Land Loo			27 TWP 59 R	GE 13 W	4M		Data Entry Date		24-Apr-2012				
Longitude, Latitude -111:51:43, 54:07:19							Reviewer Name		Eric Carcoux				
Road Authority Alberta Transportation (AIT)							Reviev	v Date	17-Apr-2012				
Contract Main. Area CMA07							Dept. Reviewer Name						
Clear Roadway/Skew 13.4 /								Review Date	04-May-2012				
AADT/Year		2,720/2					Follow	-Up By					
Road Classifica		RAU-21	3.4-110				_						
Detour Length	<u> </u>	3											
Bridge Culver													
Number of Culv			2										
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN			2400		MP		30	125X26	2.8	ROUND		
2	MAIN			2400		MP		30	125X26	2.8	ROUND		
2 Special Feature				2400		1111		50	123720	2.0	ROOND		
Special Feature		ment											
opeolar r eatait		inont											
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone	North	& South	r/w.				Gas						
Power	3 wire	s North r	/w.				Municipal						
Others	Railwa	ay 50m N	lorth (parallel).				Proble	m (Y/N) No					
Remarks	BF tag	gs on top	of North end c	of primary	pipe.								
				A	pproa			ankment					
					Last	Now	· · ·	nation of Con					
Horizontal Aligi					7	7	Local r	oad access to	south at 30m Ea	ast of east culv	ert. Twp Rd 594.		
Vertical Alignm					9	9							
Roadway Widtl	h (m)		13.400										
Embankment					8	8							
Sideslope (	•1)		3.0		0	0							
(Height of Co		0.8)	5.0										
Guardrail (Y/N)		0.0)	Yes				Some	minor dente	unctional Missir	na holte @ enliv	ce, South rail (4) -		
Suardran (1/N)			100				photo.		anotoriai. 1913311	ig bong & spin			
						_							
Approach Roa	ad / Eml	bankmen	it General Rat	ing	7	7							
						Upstre	am End						
Culvert Comp	onent				Last			nation of Con	lition				
(Pipe # : <b>1, Sp</b>		e: Primar	ry Span)										
Direction					N		West p	ipe.					
End Treatment Others, None)	(Concre	ete, Steel	, STEEL										
Headwall					X	X							
Collar					X	Х							

			Upstre	am End			
Culvert Component		Last		Explanation of Condition			
(Pipe # : 1, Span Type: Primary	/ Span)						
Wingwalls		Х	Х				
(Shape : )							
Cutoff Wall		X	Х				
Bevel End	1	6	5	Minor dent and tear NW.			
Heaving (mm)	50						
Invert Above/Below Stream Bed				-			
Above/Below (mm)	0						
Scour Protection		5	5	Settlement along bevel near streambed.			
(Type : <b>RIP RAP</b> )				-			
(Avg. Rock Size(mm) : <b>250</b> )		1					
Scour/Erosion		5	5				
Beavers (Y/N)	No						
Upstream End General Rating		5	5				
		Brid	dge Cu	Ivert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm	):	, Rise (mm): 2400, Type: MP)			
Barrel Last Accessible Date	10-Apr-2012			Pipes between old bridge abutments 500mm ice/water in pipe			
Special Features							
Special Feature							
(Туре : )							
Special Feature							
(Туре : )							
Roof		7	7	Minor dents in roof due to bouyancy against braces during grouting.			
Measured Rise (mm)				At c/l.			
Measured At Ring No.							
Sag (mm)				Est.			
Percent Sag	2						
Sidewall		7	7	At c/l.			
Measured Span (mm)	2430						
Measured At Ring No.							
Deflection (mm)	30						
Percent Deflection	1						
Floor		7	N	Minor silt accumulation on floor.			
Bulge (mm)	0						
Measured At Ring No.							
Abrasion (Y/N)	No						
Circumferential Seams		7	7				
Separation (mm)	30						
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)							

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cui	lvert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN. Spa			, Rise (mm): 2400, Type: MP)
Coating		7	7	Minor superficial rust on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
-				
Fish Passage Adequacy		7	7	
Baffle		X	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)			
Direction		S		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape : )		1	1	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		5	5	Settlement (200) & deterioration of fillcrete between pipes.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	
Beavers (Y/N)	No		1	
Downstream End General Ratir	ng	5	5	
			U <u>pstre</u>	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		Х	Х	
Bevel End	1	4	4	Invert of hovel bont up @ NW corpor
Heaving (mm)	50			Invert of bevel bent up @ NW corner
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm) 100				
Scour Protection		5	5	Up to 300mm settlement along bevel.
(Type : <b>RIP RAP</b> )				_
(Avg. Rock Size(mm) : 250)		1		
Scour/Erosion		5	5	
Beavers (Y/N)	No			
i				
Upstream End General Rating		4	4	
		Brie	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): 2400, Type: MP)
Barrel Last Accessible Date	10-Apr-2012			500mm ice/water in barrel
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	6	
Measured Rise (mm)			-	Minor domogo @ u/o roof donted
Measured At Ring No.				Minor damage @ u/s, roof dented
Sag (mm)				Est.
Percent Sag	1			
Sidewall		7	7	At c/l.
Measured Span (mm)	2430			1
Measured At Ring No.				1
Deflection (mm)	30			1
Percent Deflection	1			1
Floor		7	N	
Bulge (mm)	0			1
Measured At Ring No.				1
Abrasion (Y/N)	No			1
Circumferential Seams		7	7	
Separation (mm)	30			
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)				
Longitudinal Stagger (Y/N)				

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r		, Rise (mm): 2400, Type: MP)
Coating		6	6	Minor superficial rust along waterline
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	6	
	1	D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape : )		1	-	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		5	5	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	Minor deterioration & settlement of fillcrete between bevels.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		s	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Smooth bend @ outlet.
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

	re 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	

			Maintenance Re	commend	lations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		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	2012	Intstall r connect	missing bolts in guardrail splic tion (4).	e						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow) 77.8/6	6.7	Sufficiency Rating (Last/N (%)	low)	73.6/68.1	Est. Repl. Yr	2048	Maint. Red	qd. (Y/N)	Yes
			(**)							
Special Comments for Next Inspection					Department Comments					
Special Comments for					Department Comments Date		E	Estimated Total	0	
Special Comments for Next Inspection					Comments		 E	Estimated Total	0	
Special Comments for Next Inspection Maintenance Reviewed By					Comments		  E	Estimated Total	0	
Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy					Comments		 	Estimated Total	0	
Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N)	Shane Hall			Previous /	Comments		 E	Estimated Total	0	
Special Comments for Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy         On 3-Year Program (Y/N)         Proposed Action	Shane Hall 10-Jan-2014				Comments       Date	21-Jul-2010	Е	Estimated Total	0	
Special Comments for Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy         On 3-Year Program (Y/N)         Proposed Action         Previous Inspector's Name					Comments Date Assistant's Name	21-Jul-2010	E	Estimated Total	0	