					Brida	e Culve	ert Insp	ection					
Bridge File Nur	nber	08354 -	1 Bridge Culve		110.0				CULM				
Year Built		1998					Lot No			4			
Bridge or Town	Name		NATION				Inspector Name		Jason Saly				
Located Over			ARY TO NELS	SON CREI	EK. 5.	18.2.	·		BR CLS A				
		WATER	RCRS-ST				Assistant Name						
Located On		872:04	C1 10.948				Assistant Class						
Water Body Cl.	/Year							tion Date		09-Jun-2011			
Navigabil. Cl./Y	'ear							ntry By		Marcia Chave	 Z		
Legal Land Loc	cation	NW SE	C 18 TWP 37 F	RGE 10 W	4M			Intry Date		27-Jun-2011			
	Longitude, Latitude -111:26:00, 52:10:59  Road Authority Alberta Transportation (AIT)							ver Name		John O'Brien			
					Reviev	v Date		17-Jun-2011					
Contract Main.	Contract Main. Area CMA21					Dept. I	Reviewer I	Name	Chris Black				
Clear Roadway/Skew 9 /						Review Da		30-Jun-2011					
AADT/Year		520 / 20					Follow	-Up By					
Road Classifica		RCU-20	08-110				-	. ,					
	Detour Length (km) 3												
Bridge Culver													
Number of Cul			3	I		I_		1.				1	
Pipe #	Barrel		Span	Rise (or I	Dia.)	Type		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		_	2700		MP		34		125X26	2.8	ROUND	
2	MAIN			2700		MP		34		125X26	2.8	ROUND	
3	MAIN		- 2700			MP		34		125X26	2.8	ROUND	
Special Features					1411		01		120/120		TROONE		
Special Feature		mont			Uti	ilities (L	ocated	l at)					
Utility Attachme													
Telephone		side road	-				Gas						
Power	3 line	East side	e					Municipal  Problem (Y/N) No.					
Others							Problem (Y/N) No						
Remarks				۸۰	nrood	oh Boos	l / Emb	ankmant					
					Last	Now	/ Embankment Explanation of Condition						
Horizontal Aligi	nment				9	8	Explanation of Condition						
Vertical Alignm					8	8	1						
Roadway Widtl			8.100										
Embankment					8	8							
Sideslope (	_:1)		5.0				1						
(Height of Co	· ·	: 0.3)					1						
Guardrail (Y/N)	, ,		No										
Approach Roa	d / Eml	bankmeı	nt General Rat	ing	8	8							
						Upstre	am Enc	i					
Culvert Comp	onent				Last			nation of (	Condi	tion			
(Pipe # : <b>1, Sp</b>	an Typ	e: Prima	ry Span)										
Direction					Е		South	culvert.					
End Treatment Others, None)	(Concre	ete, Stee	I, NONE										
Headwall					Х	X							
Collar					Х	Х							

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	8	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 300)			_	
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
		Brid	dae Cu	Ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	26-Mar-2008		<u>'</u>	1.2m deep water & silt. Viewed from ends; no problems visible.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	Minor corrosion on top of exposed pipe.
Measured Rise (mm)				1
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	
Measured Span (mm)	2660			
Measured At Ring No.	2			
Deflection (mm)	40			(1.5%. 26Mar2008).
Percent Deflection	1			(1.570. 20Wa12000).
Floor		N	N	Deep water.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)	0			
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)				
Longitudinal Stagger (Y/N)				

		Bric	Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2700, Type: MP)			
Coating		6	6	Superficial corrosion on soil side.			
Corrosion By Soil (Y/N)	Yes						
Corrosion By Water (Y/N)	No						
Camber POS/ZERO/NEG	ZERO						
Ponding (Y/N)	Yes						
Fish Passage Adequacy		7	7				
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		9	8				
Icing (Y/N)	No						
Silting (Y/N)	Yes						
Drift (Y/N)	No						
Barrel General Rating		8	8	GR carried forward from 26Mar2008.			
		D	ownstr	ream End			
Culvert Component				Explanation of Condition			
(Pipe #: 1, Span Type: Primary	(Span)						
Direction		W		South barrel.			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		Х	Х				
Collar		Х	Х				
Wingwalls		X	X				
(Shape: )							
Cutoff Wall		Х	Х				
Bevel End		9	8				
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	400						
Scour Protection		9	8				
(Type : RIP RAP)							
(Avg. Rock Size(mm): 300)							
Scour/Erosion		9	8				
Beavers (Y/N)	No						
Downstream End General Ratio	ng	9	8				
			Upstre	am End			
Culvert Component				Explanation of Condition			
(Pipe # : 2, Span Type: Second	ary Span)						
Direction		Е		Middle culvert.			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		Х	Х				
Collar		Х	Х				

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	8	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
Culvert Component				Ivert Barrel
Culvert Component (Pipe # : 2, Secondary Span, Lo	vaction Code: MAIN S	Last	Now	Explanation of Condition , Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	26-Mar-2008	ppair (i		
Barrer Last Accessible Date	26-War-2006			Water 1.2m deep. Viewed from ends; no problems visible.
Special Features			1	
Special Feature				
(Type:)				
Special Feature				
(Type:)			_	
Roof		8	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	
Measured Span (mm)	2660			
Measured At Ring No.	2			
Deflection (mm)	40			(1.5%. 26Mar2008).
Percent Deflection	1			
Floor		N	N	Deep water.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)	0			
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)	1			

		Bric	lge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	pan (n	nm):	, Rise (mm): 2700, Type: MP)
Coating		6	6	Superficial corrosion on soil side.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	8	GR carried forward from 26Mar2008.
		D	ownstr	ream End
Culvert Component			_	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		Middle barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	8	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	9	8	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	ary Span)			
Direction		E		North barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	ary Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
		Brid	dae Cu	Ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN. S			, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	26-Mar-2008			1.2m deep water. Viewed from ends; no problems visible.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	
Measured Span (mm)	2665			
Measured At Ring No.	1			
Deflection (mm)	35			(1.3%. 26Mar2008).
Percent Deflection	1			
Floor		N	N	Deep water.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)	0			
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)				
Longitudinal Stagger (Y/N)				

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	pan (n	nm):	, Rise (mm): 2700, Type: MP)
Coating		6	6	Superficial corrosion on soil side.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	8	GR carried forward from 26Mar2008.
			1	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		W		North barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		X	Х	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	8	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	9	8	
		s	tructur	re Usage
		1	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

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

		Ma	intenance Recomme	ndations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 88.9/8	Sufficiency (%)	Rating (Last/Now)	92.9/87.4	Est. Repl. Yr	2049	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Bryan Wai		Previou	ıs Assistant's Name					
Next Inspection Date	09-Sep-2014		Previou	s Inspection Date	26-Mar-2008				
Inspection Cycle (Default) (months)	39								
Comment									