Bridge Culvert Inspection														
Bridge File Num	-1 Bridge Culvert				Form Type		CULM							
Year Built 1995						Lot No.			3					
Bridge or Town	Name	BROO	<s< td=""><td colspan="3"></td><td colspan="3">Inspector Name</td><td colspan="4">Jon Davies</td></s<>				Inspector Name			Jon Davies				
Located Over		EID - IF	RRIGATION C,	IGATION C, WATERCRS-IC			Inspector Class			BR CLS B				
Located On		873:02	)2 C1 30.936				Assistant Name							
Water Body Cl./	/Year							int Class						
Navigabil. Cl./Y	ear						Inspection Date			22-Mar-2012				
Legal Land Loc	ation	NW SE	EC 9 TWP 18 RGE 14 W4M					Data Entry By Anne Roberts						
Longitude, Latit	ude	-111:52	:52:60, 50:30:42					ntry Date		16-Apr-2012				
Road Authority Alberta			a Transportation (AIT)					er Name	•	Garry Roberts				
Contract Main. Area CMA23			23					/ Date		24-Mar-2012				
Clear Roadway/Skew 10 / 40			deg. (RHF)				Dept. Reviewer Name			Tim Davies				
AADT/Year 380 / 2			011 (A)				Dept. Review Date			17-Apr-2012				
Road Classifica	ition	RCU-2	08-110				Follow	Up By						
Detour Length (	(km)	30												
Bridge Culvert	Inform	ation												
Number of Culv	rerts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		7600	3800		BP		39.4				RECTANGLE		
Special Feature	s													
Special Feature	es Comr	ment												
Utilities (Located at)														
Utility Attachme	ents													
Telephone	West	ditch												
Power	7-wire	east dit	ich											
Others		Problem (Y/N) No												
Remarks														
						Now	Evolar	Explanation of Condition						
Horizontal Alignment			7	7	Road rise to the N and drops to the S. Intersection North									
Vertical Alignment				6	6									
Roadway Width (m)			9.000			Ū								
Embankment					9	7								
Sideslope (	:1)		4.0											
(Height of Cov	ver(m) ·	0.2)												
Guardrail (Y/N)	<u>vor(iii) :</u>	0.2)	Yes				Bridge rail on headwall & guardrail @ each corner, chain link fence at West.							
							Collisio	n damag	eatin	v guardraii, chi	amink tence a	t west damaged.		
							Bolt pulled through GR @ NW Corner - photo							
Approach Roa	d / Emb	bankme	nt General Rat	ing	6	6								
						Upstre	eam End							
Culvert Component				Last	Now	Explar	Explanation of Condition							
Direction					West	Vest								
End Treatment (Concrete, Steel, CONCRETE														
Headwall			8	6	Headwall is a curb with bridgerail. Wide tranverse cracks inside face of curb to exterior headwall.					acks inside face				
Collar			Х	Х										
Wingwalls					X	Х								
(Shape: )														

Alberta Transportation

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall		X	N						
Royal End			7						
	0	8	1						
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	500								
Scour Protection		8	7						
(Type : <b>RIP RAP</b> )				-					
(Avg. Rock Size(mm) : <b>200</b> )									
Scour/Erosion			7						
Beavers (Y/N)	No								
Upstream End General Rating	1	8	6						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 3800	, Rise (mm): 3800, Type: BP, Cell Sequence: 1)					
Barrel Last Accessible Date	22-Mar-2012			North pipe					
Special Features									
Special Feature									
(Type .)			-						
		_							
Root		1	1	Minor Cracks					
Measured Rise (mm)	3800			-					
Measured At Ring No.				-					
Sag (mm)	Sag (mm) 0			-					
Percent Sag	0		_						
Sidewall		8	7						
Measured Span (mm)	3820								
Measured At Ring No.									
Deflection (mm)	0								
Percent Deflection	0								
Floor		N	N	500 mm water					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		Х	Х						
Separation (mm)	0								
Longitudinal Seams		Х	Х						
Total No. of Cracked Rings				1					
Total No. of Rings with Two									
Cracked Seams									
Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		Х	6	Paint at concrete end treatment. Curbs are sealed.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	No								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 3800	, Rise (mm): 3800, Type: BP, Cell Sequence: 1)							
Ponding (Y/N)	No										
Fish Passage Adequacy		Х	7								
Baffle		Х	X								
(Туре : )											
Waterway Adequacy		9	9								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		8	7								
		Brio	dge Cul	lvert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 3800	, Rise (mm): 3800, Type: BP, Cell Sequence: 2)							
Barrel Last Accessible Date	22-Mar-2012			South pipe							
Special Features											
Special Feature											
(Type : )											
Special Feature											
(Туре : )											
Roof		8	7								
Measured Rise (mm)	3800										
Measured At Ring No.											
Sag (mm)	0										
Percent Sag	0										
Sidewall		8	7								
Measured Span (mm)	3810										
Measured At Ring No.											
Deflection (mm)	0										
Percent Deflection	0										
Floor		Ν	N	500 mm water silt and rock							
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)	No										
Circumferential Seams	-	Х	X								
Separation (mm)	0										
Longitudinal Seams		Х	X								
Total No. of Cracked Rings	0										
Total No. of Rings with Two Cracked Seams											
Min. Remaining Steel Between Cracks (mm)	0										
Proper Lap (Y/N)											
Longitudinal Stagger (Y/N)											
Coating		Х	6	Paint at concrete end treatment. Curbs are sealed.							
Corrosion By Soil (Y/N)	No										
Corrosion By Water (Y/N)	No										
Camber POS/ZERO/NEG	ZERO										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 3800	, Rise (mm): 3800, Type: BP, Cell Sequence: 2)						
Ponding (Y/N)	No									
Fish Passage Adequacy		X	7							
Baffle		Х	Х							
(Туре:)										
Waterway Adequacy		9	9							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		8	7							
		ח	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction				East						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall	1	7	6	headwall is a curb with bridgerail Narrow transverse cracking						
Collar	Collar									
Wingwalls		Х	Х							
(Shape : )										
Cutoff Wall			N							
Bevel End			7	MINOR cracking						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	500		-							
Scour Protection		8	8							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion	1	8	8							
Beavers (Y/N)	No									
Downstream End General Ration	ng	7	6							
		S	Structur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)		-	2							
Alignment	Alignment									
Bank Stability			7							
HWM (m below Top of Culvert)	0.9			No HWM visible						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	or Comments		Department Comments					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	Rapair D and 8 m	Damaged Bridge rail @ NW - of fence	- 4 posts							
OTHER ACTION		2012	Replace post at N	1 - 4 m radius flex beam a IW guardrail.	nd 1 TT							
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		88.9/77.	.8 Sufficiency Rating (Last/ (%)		Now) 8	39.1/80.0 Est. Rep		Repl. Yr	2055	Maint. Re	qd. (Y/N)	Yes
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	Tim Da	vies			Previous	Previous Assistant's Name Diego Alvarez						
Next Inspection Date 22		22-Jun-2015				vious Inspection Date 01-Apr-2009						
Inspection Cycle (Default) (months) 39												
Comment												