Bridge Culvert Inspection														
Bridge File Number 73835 -			35 -1 Bridge Culvert				Form T	уре	CULM					
Year Built 1995			5				Lot No.		4					
Bridge or Town Name RAYMO			IOND				Inspect	or Name	Jon Davies					
Located Over RID - IR			- IRRIGATION C, WATERCRS-IC				Inspect	or Class	BR CLS B	BR CLS B				
Located On 52:02 C			2 C1 11.957				Assista	nt Name						
Water Body Cl./Year							Assista	nt Class						
Navigabil. Cl./Year							Inspecti	on Date	28-Sep-2011					
Legal Land Location SW SEC			C 15 TWP 6 RGE 20 W4M				Data Er	ntry By	Erin Roberts	Erin Roberts				
Longitude, Latitude -112:37:14, 49:27:54							Data Er	ntry Date	01-Nov-2011					
Road Authority Alberta T			a Transportation (AIT)				Review	er Name	Garry Roberts					
Contract Main. Area CMA25							Review	Date	03-Oct-2011					
Clear Roadway/Skew 9 / -30 de			deg. (LHF)				Dept. R	eviewer Name	Tim Davies					
AADT/Year		1,260 /	2010 (A)				Dept. R	Dept. Review Date 17-Nov-2011						
Road Classifica	ition	RAU-20	09-110				Follow-	Uр Ву						
Detour Length (	(km)	3												
Bridge Culvert	Inform	ation												
Number of Culv	verts		2						1					
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		-	1800		MP		36	125X26	3.5	ROUND			
2	MAIN		-	1800		MP		36	125X26	3.5	ROUND			
Special Feature	es													
Special Feature	es Comr	ment												
					1 14:	lition /l	o o o to d	<b>a</b> ()						
Litility Attachmo	nto				Ull	nues (L		at)						
Telephone South row							Gas							
Power	1 wire	North fenceline 100m West					Municin	al						
Others	Fibre	optic cable North ditch.					Problen	n (Y/N) No						
Remarks	Remarke													
				A	oproad	ch Road	d / Emba	nkment						
					Last	Now	Explana	ation of Condi	tion					
Horizontal Align	nment				8	7	Canal access roads at 4 corners. RGG Road 203 600m West							
Vertical Alignme	ent				8	8								
Roadway Width	n (m)		7.100											
Embankment					8	8								
Sideslone (	•1)		6.0			0								
(Height of Co	<u>)</u> ver(m) ·	1)	0.0				-							
Guardrail (Y/N)	vor(iii) :	•)	No											
					0 =									
Approach Roa	d / Em	bankme	nt General Rat	ing	8	1								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explana	ation of Condi	tion					
(Pipe # : 1, Span Type: Primary Span)														
Direction End Treatment (Concrete, Steel, STEEL					West ba	arrel, South end	J.							
Others, None) Headwall					X	X								
Collar			X	×										
Wingwalls			X	X										
(Shape : )														

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)		-	
Cutoff Wall		X	X	
Bevel End		N	6	Crown extend 2.5m from berm
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	7	
(Type : <b>RIP RAP</b> )		i		
(Avg. Rock Size(mm) : 100)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
		Brid	dge <u>Cu</u>	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	06-Dec-2006			West pipe. Not accessible- due to high water depth
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	Ν	(est) 06- Dec-2006
Measured Rise (mm)	1784			Viewed from ends. Roof and sidewall lines appear good
Measured At Ring No.	3			
Sag (mm)	16			
Percent Sag			_	
Sidewall	1	N	N	
Measured Span (mm)	1806			
Measured At Ring No.	3			
Deflection (mm)	6			-
Percent Deflection				
Floor		N	Ν	(Ice Covered) 06- Dec-2006
Bulge (mm)	0			-
Measured At Ring No.	3			-
Abrasion (Y/N)	No		_	
Circumferential Seams	1	N	N	-
Separation (mm)	20		_	
Longitudinal Seams	1	X	X	-
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		7	N	PR 7
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

73835 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	):	, Rise (mm): 1800, Type: MP)				
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							
Fish Passage Adequacy		7	7					
Baffle		X	Х					
(Туре : )								
Waterway Adequacy		6	N	(Ice to within 0.6m of roof) 19- Jan-2010				
Icing (Y/N)	Yes							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	N					
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # 1, Span Type: Primary	/ Span)	Last						
Direction				West barrel North end				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall	1	Х	X					
Collar			Х					
Wingwalls		X	Х					
(Shape : )								
Cutoff Wall		X	X					
Bevel End		N	6	(4 - 1m dia rocks @ SB directly in front of bevel.) 2006/12/06				
Heaving (mm)	0			Crown extends 2m from berm				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	300							
Scour Protection		N	7					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 200)								
Scour/Erosion		N	7					
Beavers (Y/N)	No							
Downstream End General Ration	ng	7	6					
			Upstre	am End				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction	OTE:			East barrel, South end.				
End Treatment (Concrete, Steel, Others, None)	STEEL		1					
Headwall		X	X					
Collar		X	X					
Wingwalls		X	X					
(Shape: )								
Cutoff Wall		X	X					

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Bevel End		N	6	Crown extends 1.5m from berm						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		N	7							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 100)										
Scour/Erosion		N	7							
	1									
Beavers (Y/N)	No									
Unstream End General Rating	<u> </u>	7	6							
		Brie	dge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN	l, Span (r	nm):	, Rise (mm): 1800, Type: MP)						
Barrel Last Accessible Date	15-Jan-2009			East pipe. Not accessible due to high water depth						
Special Features										
				-						
				_						
				-						
(Туре:)										
Roof	1	N	N	(est) Jan-19-2010 Viewed from ands. Roof and sidewall lines appear good						
Measured Rise (mm)	1757									
Measured At Ring No. 3				_						
Sag (mm)	43			_						
Percent Sag	2									
Sidewall		N	N							
Measured Span (mm)	1814			_						
Measured At Ring No.	3			_						
Deflection (mm)	14			_						
Percent Deflection										
Floor		N	N	(200mm of water.						
Bulge (mm)	0			Ice covered) Jan-19-2010						
Measured At Ring No.	3									
Abrasion (Y/N)	No									
Circumferential Seams		N	N							
Separation (mm)	20									
Longitudinal Seams		X	Х							
Total No. of Cracked Rings	0			1						
Total No. of Rings with Two	0			1						
Cracked Seams				-						
Min. Remaining Steel Between Cracks (mm)	0			_						
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Coating		7	N	PR 7						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

73835 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1800, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			7						
Baffle			X						
(Type : )									
Waterway Adequacy		6	6	(Ice to within 0.6m of roof) Jan-19-2010					
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	N						
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction	1			East barrel, North end.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar			Х						
Wingwalls		X	X						
(Shape : )									
Cutoff Wall		X	X						
Bevel End		N	6	Crown extends 3m from berm					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		N	7						
(Type : <b>RIP RAP</b> )				_					
(Avg. Rock Size(mm) : <b>200</b> )									
Scour/Erosion		N	7						
Beavers (Y/N)	No								
Downstream End General Ration	ng	7	6						
		s	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			5	Channel is directly lined up with inlets but must take an approx 20 degree corner due to pipe skew not the same as the channel. turnout gate at NW					
Bank Stability			6						
HWM (m below Top of Culvert)				No visible HWM					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

Maintenance Recommendations												
Inspector Recommendations		Year Inspector Comments			Department Com	ments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	w)	55.6/55.	6 Sufficiency Rating (Last/N (%)	low)	61.7/59.7	Est. Repl. Yr 2050		Maint. Reqd. (Y/N)		No		
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 Garry		Roberts		Previous /	is Assistant's Name							
Next Inspection Date 28-		-2013		Previous	us Inspection Date 19-Jan-2010							
Inspection Cycle (Default) (months) 21												
Comment												