					Bridg	e Culve	ert Insp	ection							
Bridge File Nun	nber 7	72350 -	1 Bridge Culve	rt			Form T	уре		CUL1					
Year Built 1995							Lot No.			2					
Bridge or Town Name IRON SPR Located Over LNI - IRRIC			PRINGS				Inspector Name			Jason Rusu					
Located Over	L	LNI - IR	RIGATION C, \	WATERC	RS-IC		Inspector Class			BR CLS A					
Located On	2	25:02 C	1 35.944				Assistant Name								
Water Body Cl.	/Year						Assistant Class								
Navigabil. CI./Year Legal Land Location SW SEC 29 TWP 11 RGE 20							Inspection Date			09-Dec-2011					
Legal Land Location SW SEC 29 TWF			C 29 TWP 11 R					ntry By		Anne Roberts					
Longitude, Latitude -112:42:16, 49			:16, 49:55:53					ntry Date		17-Jan-2012					
Road Authority Alberta Tra							Reviewer Name			Garry Roberts					
Contract Main. Area CMA25						Review Date			26-Dec-2011						
		deg. (LHF)				Dept. F	Reviewer	Name	Tim Davies						
AADT/Year 830 / 201		10 (A)				Dept. Review Date			18-Jan-2012						
		RAU-21	1.8-110				Follow	-Up By							
Detour Length (km) 3															
Bridge Culvert	Informa	ation													
Number of Culv	erts		1	ı											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		3000	2400		PCB		34.2				RECTANGLE			
Special Feature	es														
Special Feature	s Comm	ent													
					1114	::::: /!		-1)							
Utility Attachme	ents				Uti	ilities (L	<u>-ocated</u>	at)							
Telephone	SOUTH	H ROW					Gas								
			TH ROW				Munici	nal							
Power 3 WIRE NORTH Others Supernet fibre N						m (Y/N)	N) No								
Remarks	Сарон						1 100101	(1,11)							
				A	pproa	ch Roac	l / Emb	ankment							
					Last	Now		ation of	Condi	tion					
Horizontal Align	ment				8	8									
Vertical Alignme	ent				8	8									
Roadway Width (m)		11.000													
Embankment					8	8									
Sideslope (	_:1)		2.0												
(Height of Co	ver(m) : <b>(</b>	0.9)													
Guardrail (Y/N)			Yes												
Approach Roa	d / Emba	ankmeı	nt General Rat	ing	8	8									
						Upstre	am End								
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion					
Direction					S										
End Treatment Others, None)	(Concret	te, Stee	el, CONCRETE												
Headwall		X	X												
Collar			Х	Х											
Wingwalls			Х	Х											
(Shape: )															
Cutoff Wall			X	X											

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	Because of skew and length of barrel the box extends into the
Heaving (mm)				channel reducing entrance efficiencies
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection	,	7	N	Snow covered
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>350</b> )				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm	): 3000	), Rise (mm): 2400, Type: PCB)
Barrel Last Accessible Date	09-Dec-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	7	
Measured Rise (mm)	2400			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		N	7	
Measured Span (mm)	3000			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			1
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	Foam added to all circumferential
Separation (mm)	25	14		seams
Longitudinal Seams		X	Х	
Total No. of Cracked Rings		, A		-
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel				
Between Cracks (mm)				-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)			\ \ \\	
Coating		X	X	-
Corrosion By Soil (Y/N)				-
Corrosion By Water (Y/N)	<u> </u>			<u> </u>
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
	1			

		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 3000	, Rise (mm): 2400, Type: PCB)						
Fish Passage Adequacy		Х	Х							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		9	9							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No		_							
Barrel General Rating		N	7							
	I			eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	I	N								
End Treatment (Concrete, Steel, Others, None)	CONCRETE		T							
Headwall		Х	X							
Collar			X							
Wingwalls			X							
(Shape: )										
Cutoff Wall		X	X							
Bevel End		Х	Х	Because of the skew and length of barrel, the box extends into the						
Heaving (mm)	0			channel reducing exit efficiencies and contributing to corner eddy currents.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	500									
Scour Protection		7	N	Snow covered						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 400)		1								
Scour/Erosion		7	N	Snow covered						
Beavers (Y/N)	No									
Downstream End General Ratio	ng	7	N							
Structure Usage										
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		9	9							
Bank Stability		5	3	SW ditch drainage erosion contributing to bank instability						
HWM (m below Top of Culvert)				(HWM 1.4) 27-may-2008						
Orift (Y/N) No										
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	·									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		9	3							

72350 -1 Bridge Culvert

		Maintenance Reco	mmendations					
Inspector Recommendations	Year	Inspector Comments	Department Comm	nents	-	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2012	Place 2.5 m 3 class 2 rip rap at SW ditc drainage outlet.	h					
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) 55.6/77	Sufficiency Rating (Last/Nov. (%)	v) 74.0/78.3	Est. Repl. Yr	2046	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Es	stimated Total	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Jason Rusu	Pr	evious Assistant's Name					
Next Inspection Date	09-Sep-2013	Pr	evious Inspection Date	s Inspection Date 06-Jun-2010				
Inspection Cycle (Default) (months)	21							
Comment								