Bridge Culvert Inspection													
Bridge File Number 72284 -1 Bridge Culvert				t			Form Type		CUL1				
Year Built 1998						Lot No.		2					
Bridge or Town Name IRON RIVER						Inspector Name			Wade Nanninga				
Located Over MANATOKAN CREEK, 7.10, V				, 7.10, W	ATERC	CRS-	Inspector Class			BR CLS A			
51 Located On 55:16 C1 24 944								Assistant Name					
Water Body CL/	Year	5.10 01	24.044				Assistant Class						
Navigabil CL/Ye	ar						Inspection Date		09-Apr-2012				
Legal Land Loca	ation SF	E SEC	14 TWP 63 RGE 7 W4M				Data Entry By		Lisa Fairhurst				
Longitude Latitude -110:56:39			6:39 54:26:33					Data Entry Date		24-Apr-2012			
Road Authority Alberta Tr			a Transportation (AIT)					Reviewer Name		Eric Carcoux			
Contract Main. Area CMA08			8					Review Date		17-Apr-2012			
Clear Roadway/Skew 12.3 /								Dept. Reviewer Name		Brent Herrick			
AADT/Year	1,	590 / 20	2011 (A)				Dept. Review Date		04-May-2012				
Road Classificat	ion R/	AU-209	09-110				Follow-U	эр ву					
Detour Length (k	(m) 40	0											
Bridge Culvert	Informati	ion											
Number of Culve	erts	1											
Pipe # E	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	7	054	3013		SCA		13.716		380X140	6.2,3.4,4.2	ARCH	
Special Features	5												
Special Features	s Comme	ent											
					Uti	lities (L	_ocated a	at)					
Utility Attachments													
Power	3 wires (	along South ditch & in South curb.					Gas	al					
FOWEI	West.					y 45m	Problem (Y/N) No						
Others Bronze BF tag casted in @ SW & NE wings.							TTODICT	· ( · / · <b>·</b> )					
Remarks													
				A	oproac	h Road	d / Emba	nkment					
					Last	Now	Explana	ation of (	Condi	tion			
Horizontal Alignr	ment				7	7	Intergration 100m W						
Vertical Alignment				9	9								
Roadway Width	(m)		8.500										
Embankment			-		4	4	Water hitting embankment @ NE -has been rebuilt but no riprap						
Sideslope (:	1)		3.0				present - photo						
(Height of Cov	er(m) : <b>0.</b>	.4)											
Guardrail (Y/N)		Yes	95			Guardrail is wider @ bridge. 23m @ SW corner due to road allowance. 46m @ all other corners. Radius length should be longer - photo.							
Approach Road	l / Embar	nkment	General Rat	ing	7	7							
				-		Unstre	am Fnd						
Culvert Compo	nent				Last	Now	Explana	ation of	Condi	tion			
Direction					N		· ·						
End Treatment (Concrete, Steel, CONCRET Others, None)		CONCRETE											
Headwall			8	8									
Collar			9	9									

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls		8	8							
(Shape : )										
Cutoff Wall			N	Culvert wall and concrete footing act as cutoff walls along length of culvert.						
Bevel End		Х	Х							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	1000									
Scour Protection		8	8							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		8	8	No evident problems.						
Beavers (Y/N)	Beavers (Y/N) Yes			bEAVER DAM 15M U/S.						
Upstream End General Rating		8	8							
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 7054	, Rise (mm): 3013, Type: SCA)						
Barrel Last Accessible Date	16-Nov-2006			Not accessible due to deep water. Viewed from ends.						
Special Features		,								
Special Feature				Concrete curb both sides.						
(Type : )			-							
Special Feature				Bridge tube AND RAIL attached to approach guardrail, all corners.						
(Туре : )		,	_	Naleu 0.						
Roof		9	N	Endine de						
Measured Rise (mm)				Estimate.						
Measured At Ring No.										
Sag (mm)	Sag (mm) 100			-						
Percent Sag										
Sidewall		9	N	(Not sure if where measured is the widest point due to high ice.						
Measured Span (mm)	6940			Near c/l. 16/NoV/2006)						
Measured At Ring No.										
Deflection (mm)	Deflection (mm) 0			-						
Percent Deflection			-							
Floor		N	N	Water 1.6m clear to crown.						
Bulge (mm)				spread footing12-Aug-2008)						
Measured At Ring No.										
Abrasion (Y/N)	No		1							
Circumferential Seams		N	N	-						
Separation (mm)	0									
Longitudinal Seams		7	N							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N) Yes										
Longitudinal Stagger (Y/N)	Yes									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 7054	
		6	N	(Rust stains coming from between plates. 2002/12/09)
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG				
Ponding (Y/N)	No			
Fish Passage Adequacy		9	9	
Baffle		Х	X	
(Туре : )		,		
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	Previous rating "9".
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction	·	S		Water to crown 1.6m
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall	1	9	9	
Collar		9	9	
			0	
(Shope : )		0	0	
			N	Sidewall and concrete facting act as sutoff wall along longth of
				barrel.
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rati	ng	8	8	
			tructur	
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		Lasi	NOW	
Alignment			4	
Donk Stability		7	7	Meandering channel affecting NE embankment
Darik Stadility		/		
HWM (m below Top of Culvert)				
Drift (Y/N)	No			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

Alberta Transportation

72284 -1 Bridge Culvert

Maintenance Recommendations												
Inspector Recommendations	Ye	ear	Inspector Comments	Department Cor	Target Year	Est. Cost	Cat #					
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP	20	12	At NE embankment approx 10m3									
REMOVE DRIFT ACCUMULATION	20	12	Beaverdam u/s									
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF									_		
REPAIR SEAMS										_		
OTHER ACTION										_		
OTHER ACTION										_		
OTHER ACTION										_		
OTHER ACTION					_		_					
Structural Condition Rating (Last/No.	ow) 55	.6/55.6	S Sufficiency Rating (Last/Now) (%)	72.3/72.3	72.3/72.3 Est. Repl. Yr		2052	Maint. Re	qd. (Y/N)	Yes		
Special Comments for Next Inspection				Department Comments								
Maintenance Reviewed By				Date			E	Estimated Tota	I 0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Shar		ll	Prev	Previous Assistant's Name								
Next Inspection Date 09-		)14	Prev	vious Inspection Date								
Inspection Cycle (Default) (months)	21											
Comment												