Bridge Culvert Inspection														
Bridge File Number 77		77336 -	77336 -1 Bridge Culvert					уре		CUL1				
Year Built 1971			71				Lot No.			2				
Bridge or Town	Name	AMBER	IBER VALLEY				Inspector Name			Eric Carcoux				
Located Over		FLAT C	CREEK, 8.11.55.5.8, WATERCRS-ST				Inspector Class			BR CLS A				
Located On		55:10 C	1 26.257				Assistant Name							
Water Body Cl./	/Year						Assistant Class							
Navigabil. Cl./Y	ear						Inspection Date			12-Apr-2012				
Legal Land Location SE SEC		C 25 TWP 66 RGE 20 W4M				Data Entry By			Theresa Lacusta					
Longitude, Latitude -112:53		-112:53	:53:10, 54:43:58					ntry Date	•	30-Apr-2012				
Road Authority Alberta		Alberta	ta Transportation (AIT)				Reviewer Name			Arnold Assenheimer				
Contract Main. Area CMA10		10					Date		30-Apr-2012					
Clear Roadway/Skew 12 /							Reviewer	Name	Brent Herrick					
AADT/Year		2,440/2	/ 2011 (A)					Review Da	ate	04-May-2012				
Road Classifica	ation	RAU-21	3.4-120				Follow-Up By							
Detour Length ((km)	29												
Bridge Culvert	Inform	nation												
Number of Culv	/erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		4390	4841		SPE		47.5		152X51	4.0,5.0	ELLIPSE		
Special Feature	es													
Special Feature	Special Features Comment													
					1 14	litios (l	ocated	at)						
Litility Attachme	Utilities (Located at)													
Telephone	South	r/w												
Power	1 OH 20m North Rower line merges v					with r/w 40m		Municipal						
West.					Problem (Y/N) No									
Others							TTODIEI							
Remarks	Remarks BF tag @ top of South roof.													
	Approach Road / Embankment													
					Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	Slight sag curve. No passing EB.									
Vertical Alignment				7	7									
Roadway Width (m) 12.000														
Embankment					5	Gullving in NW ditch that has removed rock from channel 20 m D/S								
Sideslone (1)			4.0			0								
(Height of Co	ver(m)	. 3)					- Grassed in.							
Guardrail (Y/N) Yes														
Approach Roa	d / Eml	bankmer	nt General Rat	ing	7	7								
Culvert Come	Upstream End													
Direction			C	INOW	схріан		Conun							
End Treatment (Concrete, Steel, CONCRETE			5											
Headwall			Х	Х										
Collar			5	5										
Wingwalls			X	X										
(Shape :)	(Shape :)													

Alberta Transportation

	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
Cutoff Wall		N	N								
Bevel End		6	6								
Heaving (mm)	100										
Invert Above/Below Stream Bed	wert Above/Below Stream Bed BELOW										
Above/Below (mm)	100										
Scour Protection	100	6	6								
		0	U								
$(Avg Rock Size(mm) \cdot 400)$											
Scour/Erosion		6	6								
Beavers (Y/N)	Yes			Beaver dam 2m high directly U/S of bevel.							
Upstream End General Rating		6	6								
		Brid		Ivert Barrel							
Culvert Component		Last		Explanation of Condition							
(Pipe # : 1 Primary Span Local	tion Code: MAIN Sna	n (mm	110W								
Rarrol Last Accessible Date			ij. 4 330								
Darrei Last Accessible Date	01-3011-2010			Ice and water 1.5m deep, shape looks good.							
Special Features											
Special Feature											
(Type :)											
Special Feature											
(Туре :)											
Roof		7	N								
Measured Rise (mm)	4840										
Measured At Ring No.	6										
Sag (mm)											
Percent Sag											
Sidewall		4	N	Too high to measure from floor-deflection(inward) estimated.							
Measured Span (mm)	4235			Insufficient thread projection on several bolts01-Jun-2010							
Measured At Ring No.	6										
Deflection (mm)	155										
Percent Deflection											
Floor		5	N								
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)	Yes										
Circumferential Seams		7	N								
Separation (mm)	0										
Longitudinal Seams		4	N	Also missing 2 bolts in 7 o'clock seam. Insufficient thread projection							
Total No. of Cracked Rings	0			on several bolts01-Jun-2010							
Total No. of Rings with Two Cracked Seams				1N Stagger							
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N)	Yes			1							
Longitudinal Stagger (Y/N)	Yes										
Coating		4	N	Some corrosion in sidewall & roof joints around holts from soil							
Corrosion By Soil (Y/N) Ves			14	Pitting and scaling 5-7 o'clock01-Jun-2010							
Corrosion By Water (Y/N)	Yes										
	ZERO										
Camber FOS/ZERO/NEG	LLNU										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77336 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 4390		, Rise (mm): 4841, Type: SPE)					
Ponding (Y/N)	No								
Fish Passage Adequacy		4	4	Hanging @ outlet.					
Baffle		4	N	Anchors for rock have corroded away01-Jun-2010					
(Type : LARGE BOULDER)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	GR carried fwd.					
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		6	6						
Heaving (mm)	50								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	300		1						
Scour Protection		5	5	East bank 8 m D/S has lost rock protection. Old precast placed at					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)			1						
Scour/Erosion			5						
Beavers (Y/N) No									
Downstream End General Rating			5						
		S	tructur	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)	Channel (U/S and D/S)								
Alignment			7						
Bank Stability			7	Gabion baskets 40 m D/S & rock slope protection.					
HWM (m below Top of Culvert)				HWM not visible. Pipe has flowed half full in the past.					
Drift (Y/N) No									
Channel Bottom DEGRADING Degrading/Aggrading				D/S only. Dam @ u/s end.					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

Alberta Transportation

77336 -1 Bridge Culvert

Maintenance Recommendations											
Inspector Recommendations	Ye	ear	Inspector Comments		Department Con	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION	20)12	Remove beaver dam @ U/S end.								
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) 44	4.4/44.4	4 Sufficiency Rating (Last/Now) (%)	') 5 ⁻	1.6/51.5	Est. Repl. Yr	Est. Repl. Yr 2025		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	Eric Carco	Eric Carcoux F			Previous Assistant's Name						
Next Inspection Date 12		12-Jan-2014			nspection Date	10-Jun-2010					
Inspection Cycle (Default) (months) 21											
Comment											