					Brida	e Culve	ert Inspe	ection					
Bridge File Number 72741 -1 Bridge Culvert				Direc	C Gaive	Form Type			CUL1				
Year Built 1954						Lot No.			1				
Bridge or Town	Name		IITBURN				or Name		Brian Pientsch				
Located Over		TRIBUTARY TO KSITUAN RIVER,					Inspector Class BR CLS A						
		8.10.82.	4, WATERCRS	S-ST				Assistant Name Brian Co					
Located On		49:02 C	C1 48.539				Assistant Class						
Water Body Cl	./Year						Inspection Date		06-Jul-2011				
Navigabil. Cl./\	ear_						Data Entry By		Lisa Fairhurst				
Legal Land Location SV		SW SEC	SW SEC 12 TWD 70 DGE 0 W6M					Data Entry Date		12-Aug-2011			
Longitude, Latitude		1-110·16·04 55·50·23				Reviewer Name		Arnold Assenheimer					
Road Authority		Alberta Transportation (AIT)					Review Date			13-Jul-2011			
Contract Main.	Area	CMA05	MA05				Dept. Reviewer Name						
Clear Roadway	//Skew	11.8 /					Dept. Review Date		18-Nov-2011				
AADT/Year		1,140 / 2	2010 (A)				Follow-Up By						
Road Classifica	ation	RAU-21	0-110				1 ollow-op by						
Detour Length	· ,	6											
Bridge Culver		nation											
Number of Cul	verts		1	1						I			
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		_	1829		SP		71.8		152X51	3.0,3.0,2.8	ROUND	
Special Feature		(CONC FLOOR			01		71.0		102/101	0.0,0.0,2.0	ROOND	
Special Feature			0011012001	•									
Openial Feature	00 001111	orik											
					Uti	ilities (L	ocated	at)					
Utility Attachmo													
Telephone North and South ROW					Gas								
Power	Power 1 OH line South ROW					Municip	oal						
Others					Probler	n (Y/N)	No						
Remarks													
								nkment					
							Explan	ation of	Condi	tion			
Horizontal Alig					7	7	-						
	Vertical Alignment				8	8							
Roadway Widt	Roadway Width (m)		11.800										
Embankment					5	3	Ditch e	rosion SV	V corn	er stablized wit	h vegetation.		
Sideslope (:1)		4.0				Large erosion hole around d/s bevel.						
(Height of Co		: 3.1)	_										
Guardrail (Y/N)			No										
						_							
Approach Roa	ad / Eml	bankmen	nt General Rat	ing	7	3							
						Unstre	∣ am End						
Culvert Comp	onent				Last	Now		ation of	Condi	tion			
Direction					N				, , , , , , ,				
End Treatment	(Concre	ete, Steel	I, STEEL										
Others, None)													
Headwall					Х	X							
Collar					Х	X							
Collai													
Wingwalls			Х	Х									
(Shape :)													
Cutoff Wall					Х	X							

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End			6							
Heaving (mm) 200		6								
Invert Above/Below Stream Bed										
Above/Below (mm) 0										
Scour Protection		6	6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		6	6							
Beavers (Y/N)	Yes			2 large dams upstream, rais water level 2.5m						
Upstream End General Rating			6							
		Bri	dge Cu	Ivert Barrel						
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			1):	, Rise (mm): 1829, Type: SP)						
Barrel Last Accessible Date 05-Jul-2011				Extension is 3050 mm diameter x 14.7 m at outlet.						
Special Features										
Special Feature		7	7							
(Type : CONC FLOOR)										
Special Feature										
(Type:)										
Roof		6	6	Rise not measured due to conc. floor. est.						
Measured Rise (mm)				0.9% sag.						
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidewall		3	2	Inward.						
Measured Span (mm)	1775			Cracked rings and perforations at 7:00 position. (photo)						
Measured At Ring No.	12									
Deflection (mm)										
Percent Deflection										
Floor			N	Covered by concrete						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	6							
Separation (mm)	0									

72741 -1 Bridge Culvert

		Brid	dge Cul	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1829, Type: SP)
Longitudinal Seams		2	2	Ring 16, 17 and 18 cracked at 7:00 position(photo)
Total No. of Cracked Rings	2			REMAINING STEEL IS 65MM RING 16 REMAINING STEEL IS 0MM RING 18(PHOTO)
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			1N
Longitudinal Stagger (Y/N)	Yes			
Coating		2	2	Pitting rust near floor above concrete floor.
Corrosion By Soil (Y/N)	Yes			PERFORATIONS AT 7:00 POSITION RING 16, 17 and 18. PHOTO Holes in floor of original bevel. (photo)
Corrosion By Water (Y/N)	Yes			(Perforations in sidewall of 3050mm extension(photo) 27 Oct 2009)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		3	3	1.0M DROP FROM MAIN CULVERT INTO EXTENSION.(photo)
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	(Spring U/S. Feb 29, 2008)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	2	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar			Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	3	Large erosion holes on both sides of extension bevel. Exposing
Heaving (mm)	0			outšide of bevel. Both holes approx 8 x 2 x 2.

Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Invert Above/Below Stream Bed											
Above/Below (mm) 200											
Scour Protection			7								
(Type : RIP RAP)											
(Avg. Rock Size(mm): 500)											
Scour/Erosion			7								
Beavers (Y/N) No											
Downstream End General Rating			3								
	Structure Usage										
		Last	Explanation of Condition								
Channel (U/S and D/S)											
Alignment			5	Right angle d/s end.							
Bank Stability			5								
HWM (m below Top of Culvert)				Hwm not visible.							
Drift (Y/N) No											
Channel Bottom Degrading/Aggrading				large beaverdam 10m u.s							
Beavers (Y/N) Yes											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating			5								

		Maintenano	ce Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Co	mments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS		·							
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2011	Repair embankment.							
OTHER ACTION	2016	Replace							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 22.2/2	2.2 Sufficiency Rating (I (%)	_ast/Now) 39.9/25.8	Est. Repl. Yr 20	016 Maint. Re	qd. (Y/N)	Yes		
Special Comments for Next Inspection			Department Comments						
Maintenance Reviewed By			Date		Estimated Tota	1 0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Shane Hall		Previous Assistant's Name						
Next Inspection Date	06-Apr-2013		Previous Inspection Date	s Inspection Date 27-Oct-2009					
Inspection Cycle (Default) (months)	21		•	,					
Comment									