					Brida	e Culve	ert Inspe	ection					
Bridge File Number 73928 -1 Bridge Culvert				Dilag	, o count	Form Type			CUL1				
Year Built 1992						Lot No.		2					
Bridge or Town Name SPIRIT							Inspector Name		Brian Pientsch				
Located Over			D CREEK, 8.1	0.82.2. V	VATER	RCRS-	Inspector Class BR CLS A						
		ST					Assistant Name			Brian Cote			
Located On 49:04 C1			1 6.165				Assista	Assistant Class		Dian ooto			
Water Body Cl.					Inspection Date		06-Jul-2011						
Navigabil. Cl./Year							Data Entry By		Lisa Fairhurst				
Legal Land Loc	ation	SE SEC	34 TWP 78 R	GE 8 W6	M		Data Entry Date			12-Aug-2011			
Longitude, Latitude -1		-119:08:	58, 55:48:03				Reviewer Name Arnold Assenheimer						
		Alberta 7	Fransportation	(AIT)				Review Date 13-Jul-2011					
		CMA05						Dept. Reviewer Name Steve Pasquan					
Clear Roadway	/Skew	11 /					Dept. Review Date		18-Nov-2011				
AADT/Year		1,650 / 2	2010 (A)				Follow-						
Road Classifica	ation	RAU-210	0-110				I dilow-op by						
Detour Length	(km)	10											
Bridge Culvert		nation											
Number of Culv		1											
Pipe #	Barrel		Span	Rise (or Di		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN			4115		SP		70		152X51	4.0	ROUND	
Special Feature				4115		, O.	10			102/101	1.0	INCOND	
Special Feature		ment											
Opoolar roatare	001111	ont											
					Ut	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone East&West r/w.					Gas								
Power 50m W. of c/l.					Municip								
Others						Problen	n (Y/N)	No					
Remarks													
				A			d / Emba						
Llawina otal Aliana							Explanation of Condition						
Horizontal Align					7	7	Gabion wall at u/s end.						
Vertical Alignment				/	/								
Roadway Width (m)			11.000										
Embankment			(3	Large scour hole 8 x 6 x 1.5			x 1.5m deep @	NW corner-p	hoto.	
Sideslope (:1)		3.0			_	Hole is 8m west of gabion wallphoto							
(Height of Co	ver(m) :	: 10)											
Guardrail (Y/N)			Yes										
					_	-							
Approach Roa	d / Eml	bankmen	t General Rat	ing	7	3							
						U <u>pstre</u>	am End						
Culvert Compo	onent				Last			ation of	Condi	tion			
Direction					W								
End Treatment Others, None)	(Concre	ete, Steel	, CONCRETE										
Headwall				7	7								
Collar			7	5	Narrow	cracking	midwa	ay down					
Wingwalls			Х	Х									
(Shape:)													
Cutoff Wall					N	N							

				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	 			
Above/Below (mm)	300	_	T _	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)		Τ_	Ι	
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			1.8m high beaver dam 5m u/s.
Upstream End General Rating	ı	7	5	
		Brid	dae Cu	lvert Barrel
Culvert Component		_	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 4115, Type: SP)
Barrel Last Accessible Date	27-Oct-2009		<u>, </u>	Not accessible due to depth of water.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Viewed from ends and looks good.
Measured Rise (mm)	3969	•		Tromos irom chao ana isono gossa.
Measured At Ring No.	11			
Sag (mm)	146			
Percent Sag	4			
Sidewall		7	7	
Measured Span (mm)	4206	,		
Measured At Ring No.	11			
Deflection (mm)	91			
Percent Deflection	2			
Floor		N	N	(Silt on floor. 27 Oct 2009)
Bulge (mm)		IN	IN	
Measured At Ring No.				
Abrasion (Y/N)	No			
	INO	7	N1	
Circumferential Seams	0	7	N	
Separation (mm)	0	-		
Longitudinal Seams	0	7	N	
Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel				2N stagger.
Between Cracks (mm)	Yes			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	1 69			
Coating	Na	6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

73928 -1 Bridge Culvert

		Brio	lge Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 4115, Type: SP)				
Fish Passage Adequacy		8	8					
Baffle		6	N					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N) Yes								
Drift (Y/N)	No							
Barrel General Rating		7	N	Previously rated 7 (27 Oct 2009)				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		E						
End Treatment (Concrete, Steel, Others, None)	NONE							
Headwall			Х					
Collar		Х	Х					
Wingwalls		Х	N					
(Shape:)								
Cutoff Wall			X					
Bevel End		5	5	Bevel sides have been pushed in est				
Heaving (mm)	100			300 mm due to fill pressure.				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm) 200								
Scour Protection		7	4	Signs of scour d/s of apron.				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 500)								
Scour/Erosion		7	4	Scour d/s of apron.				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	5	4					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		8	8					
Bank Stability			5	Some vertical banks d/s				
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N) Yes								
Channel Bottom Degrading/Aggrading DEGRADING				u/s				
Beavers (Y/N) Yes								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			8					

		Maintenance	Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2011	Place 30m3 rock riprap @ NW dit	ch.				
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	9						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION	2011	Repair ditch erosion at NW corner	r				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	ow) 77.8/55	Sufficiency Rating (Las (%)	st/Now) 76.8/51.4	Est. Repl. Yr	2042 Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 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	27-Oct-2009			
Inspection Cycle (Default) (months)	21		•				
, , , , , , , , , , , , , , , , , , , ,	+						