					Bridg	e Culve	ert Inspectio	n					
Bridge File Number 72014 -1 Bridge Culvert						Form Type			CULM				
Year Built 1970					Lot No.		2	2					
Bridge or Town Name SPIF		SPIRIT						ame	Brian Pientsch				
Located Over		SPIRIT RIVER, 8.10.72.6, WATERCRS-ST					Inspector C	lass	BR CLS A				
Located On 731:		731:02	C1 16.021				Assistant N	ame	Brian Cote				
Water Body Cl.	./Year						Assistant C	lass					
Navigabil. Cl./Y	/ear							Date	07-Jul-2011				
Legal Land Loo	cation	NW SE	C 3 TWP 78 RGE 6 W6M				Data Entry	Ву	Lisa Fairhurst				
Longitude, Lati	tude	-118:51	:13, 55:44:10				Data Entry	Date	12-Aug-2011				
Road Authority	,	Alberta	Transportation	n (AIT)			Reviewer N	ame	Arnold Assen	heimer			
		CMA05	5				Review Dat	e	13-Jul-2011				
Clear Roadway	/Skew	10.1 /					Dept. Revie	wer Name	Steve Pasqua	in			
AADT/Year		590 / 20	010 (A)				Dept. Revie	w Date	18-Nov-2011				
Road Classifica	ation	RCU-20	09-110				Follow-Up E	Зу					
Detour Length	(km)	3											
Bridge Culver	t Inform	nation											
Number of Cul	verts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Len	gth	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		5852	6468		SPE	57.9	Э	152X51	3.0,6.0	ELLIPSE		
2	MAIN		-			SPE	57.9	Э	152X51	3.0	ELLIPSE		
Special Feature	es												
Special Feature	es Com	ment											
Litility Attachma	anta				Ut	littles (L	ocated at)						
Utility Attachme	25m E	Foot					Gas						
Telephone Power		Vest of c			Municipal								
Others	2011 1				Problem (Y/N) No								
Remarks													
Remains				Δι	oproad	ch Road	d / Embankn	nent					
					Explanation of Condition								
Horizontal Aligi	nment				6	6	Entrances to North & south						
Vertical Alignment			6		6	In sag curve, limited sight distance in both directions.							
Roadway Widtl	h (m)		10.100			-							
Embankment					7	7							
Sideslope (:1)		3.0										
(Height of Co	· ·	6.4)											
Guardrail (Y/N)		,	No										
Approach Roa	ad / Eml	bankme	nt General Ra	atina	6	6							
				5	_								
Culvert Comp	onort				Last		am End Explanatio	n of Cond	tion				
(Pipe # : 1, Sp		e. Prima	ary Span		Lasi	NOW							
Direction	an ryp	0. I IIIIa	ary opan)		W								
End Treatment (Concrete, Steel,		el, CONCRET	E	VV									
Others, None) Headwall					Х	X							
Collar					N 3		Scaling with	n exposed	rebar.				
Wingwalls					N	X							
(Shape :)						~							
(onape.)							1						

Upstream End								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Cutoff Wall		N	N					
Bevel End		N	6					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	300							
Scour Protection		N	6					
(Type : RIP RAP)				_				
(Avg. Rock Size(mm) : 200)			_					
Scour/Erosion		N	6					
Beavers (Y/N)	No							
Upstream End General Rating		5	3					
				lvert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı): 5852	Rise (mm): 6468, Type: SPE)				
Barrel Last Accessible Date	07-Jul-2011			Silt on floor, no rise measurements possible.				
Special Features		1						
Special Feature				-				
(Type :)		1		-				
Special Feature								
(Type:)								
Roof	1	6	6	Barrel shape looks good.				
Measured Rise (mm)				-				
Measured At Ring No.				Estimated.				
Sag (mm)	230							
Percent Sag	5							
Sidewall		6	6	could not measure because of size				
Measured Span (mm)	6138			-				
Measured At Ring No.	9			-				
Deflection (mm)	286			-				
Percent Deflection	4		•••					
Floor		N	N	Under silt				
Bulge (mm)				-				
Measured At Ring No.	No			-				
Abrasion (Y/N)	No	-	-					
Circumferential Seams	0	7	7					
Separation (mm)	0	-	-					
Longitudinal Seams	0	7	7	Alkali build up on bolts.				
Total No. of Cracked Rings	0			-				
Total No. of Rings with Two Cracked Seams				-				
Min. Remaining Steel Between Cracks (mm)				1N				
Proper Lap (Y/N)	No			-				
Longitudinal Stagger (Y/N)	Yes							
Coating		5	5	Superficial rust on floor.				
Corrosion By Soil (Y/N)	Yes							
Corrosion By Water (Y/N)	Yes							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)			7.	
Waterway Adequacy		8	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	6	
		D	ownst	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primar	y Span)			
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar	N	Х		
Wingwalls		X	Х	
(Shape :)		I		
Cutoff Wall	N	N		
Bevel End		N	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		N	4	30 x 15 x 1m scour hole d/s of outlet
(Type : NONE)				_
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	Scour hole d/s of outlet.
Beavers (Y/N)	No			
Downstream End General Rati	ng	7	4	
				am End
Culvert Component	Last	Now	Explanation of Condition	
(Pipe # : 2, Span Type: Second	dary Span)			
Direction		W		-
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	N	
Wingwalls		X	X	
(Shape :)		1		
Cutoff Wall		X	X	

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	7	CSP (1800mm dia) extension at u/s end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	8	7	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN.			, Rise (mm): , Type: SPE)
Barrel Last Accessible Date	07-Jul-2011			2050 x 2250, 1800 csp ext@u/s end only accessible to first 6 rings.
Special Features				
Special Feature				Shape appears adequate.
				Shape appears adequate.
(Type:)				-
Special Feature				
(Type :)				
Roof		5	6	Not able to inspect due to silt on floor.
Measured Rise (mm)				
Measured At Ring No.				Estimated upward.
Sag (mm)	53			-
Percent Sag	3		_	
Sidewall	1	5	5	-
Measured Span (mm)	1970			-
Measured At Ring No.	9			Inward.
Deflection (mm)	80	_		-
Percent Deflection	4		_	
Floor	1	N	N	Can't inspect due to silt.
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Clay from circumferential space between pipes washed onto floor of
Separation (mm)	0			culvert at u/s end.
Longitudinal Seams		N	5	Only first 6 rings accessible.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

72014 -1 Bridge Culvert

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı	nm):	, Rise (mm): , Type: SPE)
Ponding (Y/N)	Yes			
Fish Passage Adequacy		3	3	u/s and d/s above the river.
Baffle		X	Х	
(Type:)				
Waterway Adequacy		4	4	D/S end full of silt to 200mm below crown.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownst	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		E		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	Х	
Wingwalls			Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Silt to 200mm below crown.
Heaving (mm)				
Invert Above/Below Stream Bed		_		-
Above/Below (mm)	1500		-	
Scour Protection		N	6	
(Type : NONE)				-
(Avg. Rock Size(mm) :) Scour/Erosion		NI	6	
	1	N	6	
Beavers (Y/N)	No		1	
Downstream End General Rati	ng	7	N	Last rated 7 on 8-Feb-2006
		S	Structu	re Usage
				Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	Rating for main channel.
				Secondary span out of main channel 200m.South
Bank Stability		8	8	
HWM (m below Top of Culvert)	5.0			HWM not visible. (98-09-02)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			-
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				-
(Fish Compensation Measure 2 :	NONE)			

Structure Usage								
	Las	st N	Now	Explanation of Condition				
Channel General Rating	6	6	8					

			Maintenance Reco	ommendations						
Inspector Recommendations	Yea	ar Inspe	ctor Comments	Department (Commer		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTC	DFF									
REPAIR SEAMS										
OTHER ACTION	201	11 Patch	collar.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										_
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow) 55.	6/55.6	Sufficiency Rating (Last/No (%)	w) 47.4/44.0	Es	st. Repl. Yr	2025	Maint. Red	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	Laurie McC	Carron	P	revious Assistant's Nar	Russel Vande	Russel Vanderschaaf				
Next Inspection Date	07-Oct-201	14	P	Previous Inspection Date	е	18-Dec-2008				
Inspection Cycle (Default) (months)	39									