					Brido	e Culve	ert Inspe	ction					
Bridge File Nu	mber	73127 -1	Bridge Culver		Dirag	,o oanv	Form Ty		CUL1				
Year Built		1974					Lot No.) p =	1				
Bridge or Town	n Name	TROCH	U					or Name	Dave Lam				
Located Over			ARY TO GHOS	STPINE C	REEK	 (,		or Class	BR CLS A				
		3.50.12,	WATERCRS-S	ST				nt Name					
Located On		585:02 (21 9.315				Assistant Class						
Water Body Cl							Inspecti	Inspection Date 14-Jul-2011					
Navigabil. Cl./	Year						· ·	·					
		SE SEC	18 TWP 33 R	GE 22 W4	M				24-Aug-2011	24-Aug-2011			
								-	John O'Brien				
			Fransportation	(AIT)			Review	Date	28-Jul-2011				
							Dept. R	eviewer Nam	Chris Black				
	y/Skew						Dept. R	eview Date	30-Aug-2011				
							Follow-I						
			8-110										
		6											
	1			D: /	. .	-		1 4	0 5 "	DI /OL I			
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length	Corr. Profile		Shape		
1	MAIN	-		1524		MP		53.7	68X13		ROUND		
		\	/FRT TIMBER	-		1			1007110		11100112		
·													
5													
					Ut	ilities (L	Located	at)					
Utility Attachm	ents												
Telephone	South	side.					Gas						
Power							Municip	al					
Others							Problem	n (Y/N) No					
Remarks													
					Last	Now							
					7	7	In bottom of sharp sag, limited sight distance in both directions.						
					6	6	_						
Roadway Widt	:h (m)		7.500										
Embankment					7	7							
	.1)		2.2				Both sic	des.					
, , ,													
Navigabil. CI./Year Legal Land Location Lengitude, Latitude Alberta Transportation (AIT) Contract Main. Area Clear Roadway/Skew 7.5 / -30 deg. (LHF) AADT/Year Agad Classification Detour Length (km) Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or Dia.) Type Length Corr. Profile PI./Slab Thickness 1 Pipe # Barrel Span Rise (or Dia.) Type Length Corr. Profile PI./Slab Thickness Special Features Special Features Special Features Comment Utility Attachments Telephone South side. Approach Road / Embankment Last Now Explanation of Condition Horizontal Alignment Pata Entry By Marcia Chavez 24-Aug-2011 Review Pate 24-Aug-2011 Chris Black Chris Black Chris Black Chris Black Dept. Review Date 30-Aug-2011 Follow-Up By Special Features Special Features VERT TIMBER STRUTS Special Features Special Features VERT TIMBER STRUTS Special Features Spe													
Approach Ro	ad / Eml	bankmen	t General Rat	ing	6	6							
Out to								otlan (C	-1111				
	onent					NOW				1 Cm long have			
	t (Con	oto Ctarl	eter!		IN		First rin	y is 3.75m lo	ng and included	i.biii long beve	∂ 1.		
Others, None)	i (Concr	ete, Steel	, SIEEL										
					Х	X							
Collar					Х	Х							
Wingwalls					X	X							
(Shape :)												
Cutoff Wall					Χ	X							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	(Floor rusted - some pitting. 16Mar2005).
Heaving (mm)	0			Drifted-in (photo).
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	6	Willow brush.
(Type : RIP RAP)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	R=4 19Dec2001 carried forward from unknown date.
Opstream End General Rating			7	17—4 19Dec2001 carried forward from unknown date.
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm	ı):	, Rise (mm): 1524, Type: MP)
Barrel Last Accessible Date	14-Jul-2011			
Special Features				0 . 10 . 10 . 10 . 10 . 10 . 10 . 10 .
Special Feature		7	7	(Installed in May 1991 - 93/09/27.
(Type : VERT TIMBER STRUTS)			1	
Special Feature				
(Type:)				
Roof	ı	3	3	Min rise 1320mm 12%.
Measured Rise (mm)	1320			Measured beside max span 1700mm. The 17th strut from U/S end.
Measured At Ring No.				
Sag (mm)	180			
Percent Sag	12			
Sidewall		3	3	13.3% deflection 1700.
Measured Span (mm)	1700			Deflecting throughout appears stable. Waving throughout.
Measured At Ring No.				17th strut from u/s end.
Deflection (mm)	176			11.6%
Percent Deflection	12			
Floor		N	4	Showing rust & some pitting.
Bulge (mm)	100			6.7% bulge.
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		5	5	Coupler functioning properly as installed.
Separation (mm)	65]
Longitudinal Seams		Х	5	Rivetted seams.
Total No. of Cracked Rings	0	7		
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	4	4 rating relates to the floor mainly due to rust. Water & soil corrosion
Corrosion By Soil (Y/N)		.,	<u>'</u>	3
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Inspection & Maintenance System (Web 2005)

73127 -1 Bridge Culvert

Culvert Component (Pipe # : 1, Primary Span, Location Code: MAIN, Fish Passage Adequacy Baffle (Type :) Waterway Adequacy Icing (Y/N) Yes Silting (Y/N) No Drift (Y/N) Yes Barrel General Rating		Brid	dge Cu	Ilvert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1524, Type: MP)			
Fish Passage Adequacy		Х	X				
Baffle		Х	X				
(Type:)							
Waterway Adequacy		6	4	(16Mar2005). Not visible this inspection.			
Icing (Y/N)	Yes			U/S end drifted-in.			
Silting (Y/N)	No						
Drift (Y/N)	Yes						
Barrel General Rating		4	4	1 pt. increase in GR due to struts in good condition.			
Culvert Component			Now	ream End			
Culvert Component Direction		Last	INOW	Explanation of Condition			
End Treatment (Concrete, Steel,	STEEL	3		_			
Others, None)	STEEL						
Headwall		Х	Х				
Collar		Х	Х				
Wingwalls		X	Х				
(Shape:)							
Cutoff Wall		Х	Х				
Bevel End		4	4	Perched.			
Heaving (mm)	150			Rust on floor; some pitting.			
Invert Above/Below Stream Bed	ABOVE						
Above/Below (mm)	300						
Scour Protection		3	3	Some restoration done, more required.			
(Type : NONE)							
(Avg. Rock Size(mm):)							
Scour/Erosion		3	3	Scour hole 6m long x 5m wide approx 500mm depth undermining bevel end-photo. Embankment well vegetated but inadequate armouring around bevel.			
Beavers (Y/N) No							
Downstream End General Ratio	ng	3	3				
		S	Structu	re Usage			
		Last	Now	Explanation of Condition			
Channel (U/S and D/S)			_				
Alignment		7	7				
Bank Stability		6	6				
HWM (m below Top of Culvert)				HWM not visible.			
Drift (Y/N)	No						
Channel Bottom Degrading/Aggrading	DEGRADING			(D/S. 011219). Not visible.			
Beavers (Y/N)	No						
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :							
Channel General Rating		6	7				

			Ma	Maintenance Recommendations	lations					
Inspector Recommendations	Year		Inspector Comments		Department Comments	ıments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	2011		U/S opening.							
INSTALL CONCRETE/STEEL LINING	(J)									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF	OFF									
REPAIR SEAMS										
OTHER ACTION	2011		Restore scour D/S end	end & undermining.						
OTHER ACTION	2011		Assess & program to re inadequate to handle file at d/s end.	Assess & program to replace; pipe appears inadequate to handle flow based on scour hole at d/s end.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		44.4/44.4	Sufficiency F (%)	Sufficiency Rating (Last/Now) (%)	51.5/45.5	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)		Yes
Special (Pipe was strutted Comments for 011219). Next Inspection Inspect every 2yrs	in 1991. Pipe (RS).) locate	(Pipe was strutted in 1991. Pipe located in slide area which is caused by springs. 011219). Inspect every 2yrs (RS).	is caused by springs.	Department Comments					
Maintenance Reviewed By					Date		Ü	Estimated Total	0	
Proposed Long-Term Strategy	2003.08.19	Repla	2003.08.19 Replace in 2015.							
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam			Previous,	Previous Assistant's Name					
Next Inspection Date	14-Oct-2014	4		Previous	Previous Inspection Date	16-Mar-2005				
Inspection Cycle (Default) (months)	39									
Comment										

					Maintenance Re	commend	dations						
Inspector Recom	mendations		Year	Inspecto	or Comments		Department C	comme	nts		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS												
PLACE ADDITIO	NAL RIP RAP												
REMOVE DRIFT	ACCUMULATION		2011	U/S ope	ning.		To operations						
INSTALL CONCE	RETE/STEEL LINING	3											
INSTALL STRUT	S												
INSTALL CONCE	RETE COLLAR/CUT	OFF											
REPAIR SEAMS													
OTHER ACTION			2011	Restore	scour D/S end & undermin	ing.	•						
OTHER ACTION			2011	Assess & program to replace; pipe ap inadequate to handle flow based on s hole at d/s end.			Defer, replace	ement p	orogrammed 2	2017			
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Cond (%)	ition Rating (Last/N	low)	44.4/44	.4	Sufficiency Rating (Last	/Now)	51.5/45.5	Es	t. Repl. Yr	2015	Maint. Re	eqd. (Y/N)	Yes
Special (Pipe was strutted in 19 011219). Next Inspection Inspect every 2yrs (RS)			Pipe loc	cated in s	lide area which is caused b	y springs.	Department Comments	Tenta	tively program	nmed to b	pe replaced in 2	017. AS	
Maintenance Reviewed By Andre			v Smikle	s			Date	22-Au	g-2012		Estimated Total	al 0	
		2003.0	8.19 Re _l	place in 2	2015.				<u> </u>				
On 3-Year Progra	am (Y/N)												
Proposed Action													
Previous Inspecto	or's Name	Dave L	_am_			Previous	Assistant's Nar						
Next Inspection D	Date	14-Oct	-2014			Previous	Inspection Date	e	16-Mar-200	5			
Inspection Cycle	(Default) (months)	39											
Comment													