					Brida	ie Culve	ert Inspe	ection				
Bridge File Num	ber	73489 -1	Bridge Culve	rt	11 8.0		Form T		CUL1			
Year Built		1960					Lot No. 1					
Bridge or Town	Name						Inspector Name Owen Salava					
Located Over			CREEK, 6.17	71.2, WAT	ERCR	RS-ST		tor Class	BR CLS A			
Located On		11:04 C1						int Name				
Water Body Cl./	Year						Assistant Class					
Navigabil. Cl./Y								tion Date	07-Feb-2012			
Legal Land Loca		SE SEC	10 TWP 40 R	GE 16 W	5M		Data E		Marcia Chave	 Z		
Longitude, Latit			58, 52:25:38					ntry Date	02-Mar-2012			
Road Authority			ransportation	(AIT)				er Name	John O'Brien			
Contract Main.	Area	CMA18	ranoportation	(/ 11 /)			Review		22-Feb-2012			
Clear Roadway		13.4 / 0 c	 lea.						Andrew Smikle			
AADT/Year	<u> </u>	840 / 201					· · · · ·	Review Date	21-Mar-2012			
Road Classification RAU-213						Follow-		2. 1001 2012				
Detour Length (km) 300												
Bridge Culvert							1					
Number of Culv		1										
Pipe #	Barrel	S	pan	Rise (or Dia.) Type			Length	Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	2	019	2226		SPE		56.1	152X51	3.5	ELLIPSE	
Special Features				-		1		1				
Special Features Comment												
O												
					Ut	ilities (L	ocated	at)				
Utility Attachments												
Telephone	North	r/w.					Gas					
Power	4 wire	O/H Sout	th r/w.				Municipal					
Others							Proble	m (Y/N) No				
Remarks												
				Α				ankment				
Horizontal Alignment					Explanation of Condition Built in-between two curves 1/2 km apart. Hill to NE with limited sigh							
Horizontal Alignment			6	6	Built in-between two curves 1/2 km apart. Hill to NE with limited sight distance. No passing EBL @ pipe.							
Vertical Alignment			40.400		5	5						
Roadway Width (m) 13.400												
Embankment				4	4	Scour @ D/S into embankment - photo.						
Sideslope (:1)		3.0									
(Height of Cov	/er(m) :	: 4)										
Guardrail (Y/N)			No									
Approach Roa	d / Eml	pankment	General Ra	ting	5	5						
						Upstre	am End					
Culvert Compo	nent				Last	Now		ation of Cond	lition			
Direction					N							
End Treatment Others, None)	(Concre	ete, Steel,	STEEL									
Headwall					Х	Х						
Collar					Х	Х						
Wingwalls					X	X						
(Shape:)							<u></u>					
Cutoff Wall					Х	Х						

73489 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Superficial rust.
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection	1.00	N	N	(Scour along bottom of bevel and sides causing piping to ring 4 -
(Type : NONE)				photo. 31/May/2007) Not visible due to snow/ice.
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
Ocour/Erosion			14	
Beavers (Y/N)	No			
Upstream End General Rating		3	3	G.R. carried forward from 31May2007.
		Dri	dae Cu	Ivert Perrol
Culvert Component			Now	Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			
Barrel Last Accessible Date	07-Feb-2012	Span (IIIII	.,. 2013	, moo (min). ZZZO, Typo. Of E)
Darrei Lasi Accessible Date	01-60-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)			_	
Roof		5	5	(Water is piping in through first 4 rings. 31May2007).
Measured Rise (mm)	2085	3	3	(water is piping in tillough first 4 fings. 3 fiviay2007).
,				
Measured At Ring No.	5			
Sag (mm)	141			
Percent Sag	6		1	
Sidewall	I	3	3	Due to cracked seams.
Measured Span (mm)	2130			
Measured At Ring No.	5			
Deflection (mm)	111			
Percent Deflection	5		,	
Floor		N	5	Slight abrasion, minor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	5th ring separating due to loose bolts but no infiltration.
Separation (mm)	0			
Longitudinal Seams		3	3	R19 & 20 seams not properly nested.
Total No. of Cracked Rings	4			Cracks @ 4 o'clock position stable.
Total No. of Rings with Two Cracked Seams	0			R5-105mm @ 4 o'clock. R7-110mm @ 10 o'clock. R9-80mm @ 4 o'clock.
Min. Remaining Steel Between Cracks (mm)	80			R13-101mm @ 4 o'clock. Cracks have no growth since 31May2007. Drilled at crack ends.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			1N.
Coating		5	5	Minor surface rust & abrasion bottom barrel.
Corrosion By Soil (Y/N)				inition odifico fact & abradion bottom barren.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Brid	ige Cul	vert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SPE)
Fish Passage Adequacy		3	3	1.5m drop @ outlet - photo.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		3	3	
Burror Contrain Ruting				
				eam End
Culvert Component		Last	Now	Explanation of Condition
Direction	 	S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		4	4	Minor superficial rust. 1.4m beveled end exposed and cantilevered
Heaving (mm)	0			over streambed & hanging 1.5m.
Invert Above/Below Stream Bed ABOVE				
Above/Below (mm) 1500				
Scour Protection			3	
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		3	3	10m x 10m x 1.5m scour hole - photo.
Beavers (Y/N) No				
Downstream End General Ratio	ng	3	3	
			tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		Lasi	INOW	Explanation of Condition
Alignment		5	5	Sharp turn U/S into inlet.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

		Maintenance Re	Maintenance Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	Comments	Target Year	Est. Cost Ca	Cat#
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	50m3 class II @ D/S.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Grout U/S bevel to stop piping 1m3.					
OTHER ACTION	2012	10m3 class 1m @ U/S bevel.					
OTHER ACTION	2012	Repair embankment @ D/S 30m3 pitrun	irun.				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	w) 33.3/33.3	.3 Sufficiency Rating (Last/Now)	132.5/32.5	Est. Repl. Yr 2020	Maint. Reqd. (Y/N)	qd. (Y/N) Yes	
Special Monitor cracks at regular inspection cycle. Comments for Next Inspection	lular inspectior	ı cycle.	Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0 1	
Proposed Long-Term Strategy	Culvert should	Culvert should be good at least until 2020. RS					
On 3-Year Program (Y/N)	X						
Proposed Action	Drill 10mm hol	Drill 10mm hole at the end crack to stop propagation. Continue to montior cracks on regular BIM cycle. CB	Continue to montior crace	ks on regular BIM cycle. CB			
Previous Inspector's Name	Owen Salava		Previous Assistant's Name	me			
Next Inspection Date	07-Nov-2013		Previous Inspection Date	e 04-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							

					Maintenance Re	commend	lations						
Inspector Recommendat	tions	,	Year	Inspecto	Comments		Department C	Comme	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							·						
PLACE ADDITIONAL RI	P RAP	:	2012	50m3 cla	ss II @ D/S.		Defer, replace	ement p	orogrammed		2015		
REMOVE DRIFT ACCUM	MULATION							•					
INSTALL CONCRETE/S	TEEL LINING												
INSTALL STRUTS													
INSTALL CONCRETE C	OLLAR/CUTO	OFF											
REPAIR SEAMS													
OTHER ACTION		2	2012	Grout U/	S bevel to stop piping 1m3.		Defer, replace	ement p	orogrammed		2015		
OTHER ACTION		2	2012	10m3 cla	ss 1m @ U/S bevel.	Defer, replacement programmed				2015			
OTHER ACTION		2	2012	Repair e	mbankment @ D/S 30m3 p	itrun. Defer, replacement programmed				2015			
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) 33.3/33.3 Sufficiency Rating (Last/(%)					Now)	32.5/32.5	Es	t. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	Yes	
Special Monitor Comments for Next Inspection	or cracks at re	egular inspection cycle.					Department Comments	Curre	ntly programm	ed to be	replaced in 201	15.	
Maintenance Reviewed I	Ву	Andrew	Smikle	s			Date	31-Oc	t-2012		Estimated Tota	ıl 0	
Proposed Long-Term Strategy Culvert should be good at I					t least until 2020. RS								
On 3-Year Program (Y/N	I)	Y											
Proposed Action		Drill 10mm hole at the end crack to stop propagation.				n. Continue	e to montior cra	acks on	regular BIM c	ycle. CB			
Previous Inspector's Nar	me	Owen S	Salava			Previous	evious Assistant's Name						
Next Inspection Date		07-Nov	-2013			Previous	Inspection Date	е	04-May-2010)			
Inspection Cycle (Defaul	t) (months)	21							, ,				

Alberta Transportation	Bridge Inspection & Maintenance System (Web 2005)
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73489 -1 Bridge Culvert

Comment	
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