				D.	rida	a Culve	ert Inspec	rtion.						
Bridge File Nu	mher	13026	-1 Bridge Culve		ne(g)	e Guive	Form Ty			CULM				
Pridge File Number 13926 -1 Bridge Culvert  Year Built 1986							Lot No.	3.1						
Bridge or Tow	n Name	LAMON	NT					r Name		Owen Salava				
Located Over	vaine		FORD CRE	EK		Inspector Name Inspector Class			BR CLS A					
				ARY TO WHITFORD CREEK, , WATERCRS-ST						DIX GEO 7X				
Located On		29:02 (	21 28.295	1 28.295										
Water Body C	l./Year				Assistant Class Inspection Date					08-Nov-2012				
Navigabil. Cl./	Year						Data En			Marcia Chavez				
Legal Land Lo	cation	SW SE	C 25 TWP 55 R	GE 17 W4N	/		Data En			20-Nov-2012				
Longitude, Lat	itude	-112:24	1:03, 53:46:25			Reviewer Name John O'Brien								
Road Authority			Transportation	(AIT)			Review			14-Nov-2012				
Contract Main		CMA14					Dept. Re		Name	Andrew Smikl	es			
Clear Roadwa	y/Skew		deg. (LHF)				Dept. Re			26-Nov-2012				
AADT/Year			2011 (A)				Follow-L							
Road Classific		RCU-2	10-110											
Detour Length (km) 5														
Bridge Culver		ation												
Number of Cul	T	2		- (- : Di- ) T- :						<b>D</b> 1 (C)				
Pipe #	Barrel	Span Rise		Rise (or Dia	Dia.) Type		l	Length		Corr. Profile	PI./Slab Thickness	Shape		
 1	MAIN	- 1800		1800		MP		42		68X13	3.5	ROUND		
<u>.</u> 2	MAIN					MP		42 68X13 42 68X13			3.5	ROUND		
Special Featur														
Special Featur		ment												
					Uti	lities (L	Located a	ıt)						
Utility Attachm	ents													
Telephone	South	ditch.			Gas			Gas Crossing 250m			250m West.			
Power 2 wires 23m North of c/l.						Municipal 2000 M								
Others						Problem (Y/N) No								
Remarks														
							d / Embar							
				Lá	ast	Now	Explana		Condi	tion				
Horizontal Alig					7	7	East of F	KK 171.						
Vertical Alignn			12.000		8 8									
Roadway Widt	ui (m)		12.000											
Embankment				6 6						in roadway over pipe - photo.				
Sideslope (_	_:1)		2.5				North embankment me							
(Height of Co	over(m) :	1.9)												
Guardrail (Y/N			No											
							-							
Approach Ro	ad / Eml	oankme	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Comp	onent			La				tion of	Condi	tion				
(Pipe # : <b>1, S</b>		e: Prima	ary Span)							· · · · · · · · · · · · · · · · · · ·				
Direction			<b>J</b> - <b>J</b> - · · · · · · · · · · · · · · · · · ·	s			West cu	lvert						
End Treatmen Others, None)	t (Concre	ete, Stee	el, STEEL											
Headwall					Χ	X								
Collar					X	Х								
Wingwalls					X	X								
	)				^		-							
(Shape :	)													

13926 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	N	East side of bevel exposed due to skew. Well vegetated.
(Type : RIP RAP)				Snow covered.
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	າ):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	08-Nov-2012			West culvert.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Unable to measure due to ice.
Measured Rise (mm)	1665			At c/l.
Measured At Ring No.	3			At Oil.
Sag (mm)	135			
Percent Sag	7			
Sidewall		5	5	South end.
Measured Span (mm)	1902			
Measured At Ring No.	2			
Deflection (mm)	102			
Percent Deflection	5			
Floor		5	5	
Bulge (mm)	0			Scaling.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	90			
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	4	Corrosion/scaling - no action.
Coating  Corrosion By Soil (Y/N)	No	4	4	Outrosoff scaling - 110 action.
Corrosion By Water (Y/N)	Yes			
Johnson by Waler (1/14)	100			A

		Brid	dae Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm		, Rise (mm): 1800, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	5	
				ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	Span)			
Direction		N		West culvert.
End Treatment (Concrete, Steel, Others, None)	STEEL	X		
Headwall			Х	
Collar			X	
Wingwalls			X	
(Shape: )				
Cutoff Wall			Х	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	Well vegetated. Snow covered.
(Type : RIP RAP)				- Chew Governou.
(Avg. Rock Size(mm) : <b>250</b> )		_		
Scour/Erosion		7	N	
Beavers (Y/N)	No		1	
Downstream End General Ratin	ng	6	6	
Outroot On				am End
Culvert Component	J	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			Foot subsent
End Treatment (Concrete, Steel,	STEEL	S		East culvert.
Others, None) Headwall		X	Х	
Collar		X	X	
Wingwalls		Х	X	
(Shape: )			1	
Cutoff Wall		X	X	

13926 -1 Bridge Culvert

			Unstre	eam End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End	<u> </u>	5	5	Seam not tight. 30mm vertical separation.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		6	N	Well vegetated.
(Type : RIP RAP)				Snow covered.
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (r	nm):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	08-Nov-2012			East culvert.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		4	4	Unable to measure due to ice - no action.
Measured Rise (mm)	1648		_	
Measured At Ring No.	3			
Sag (mm)	152			
Percent Sag	8			
Sidewall		5	4	No action.
Measured Span (mm)	1878			
Measured At Ring No.	3			
Deflection (mm)	98			
Percent Deflection	5			
Floor		5	5	
Bulge (mm)	0			Scaling.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	30mm vertical gap; minor infiltration.
Separation (mm)	40			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	4	Corrosion/scaling - photo, no action.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brio	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1800, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Cultivant Campananat			1	ream End
Culvert Component	lami Caan)	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	١		- · · ·
Direction	0.7551	N		East culvert.
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar			Х	
Wingwalls			Х	
(Shape: )		Х	.,	
Cutoff Wall			X	
Bevel End		6	5	Not in line, West side of bevel exposed.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	N	
	I			
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		6	Avustu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)		Last	INOW	Explanation of condition
Alignment			5	30 degree angle @ D/S, follows ditch East.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			1
Channel Bottom Degrading/Aggrading	DEGRADING			(14Aug2009). Snow covered.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

		Maintenance Recommendations	ommendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	ments	Target Year	Est. Cost	Cat#
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF	)FF						
REPAIR SEAMS							
OTHER ACTION	2013	Seal ACP crack over pipe.					
OTHER ACTION	2013	Seal E CSP jnt with expanding foam.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	w) 44.4/44.4	4 Sufficiency Rating (Last/Now) (%)	w) 55.9/55.9	Est. Repl. Yr 2041	Maint. Reqd. (Y/N)	yd. (Y/N) Yes	Se
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	08-Aug-2014	<u> </u>	Previous Inspection Date	07-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							

				Maii	ntenance Re	commen	dations						
Inspector Recommendations		Year	Inspecto	or Comments			Department C	Commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LININ	G												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUT	OFF												
REPAIR SEAMS													
OTHER ACTION		2013	Seal AC	Seal ACP crack over pipe. Programmed					2013				
OTHER ACTION		2013	Seal E C	SP jnt with ex	panding foan	n	Programmed			2013			
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No. (%)		44.4/44	.4	Sufficiency F (%)	Rating (Last/	Now)	55.9/55.9	Es	t. Repl. Yr	2041	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments	Replac	cement progra	ammed fo	or 2022.		
Maintenance Reviewed By	Andrev	w Smikle	:S				Date	17-De	c-2012		Estimated Total	al 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Da		₋am				Previous	is Assistant's Name						
Next Inspection Date	08-Aug	g-2014				Previous	Inspection Date	e	07-Dec-2010	)			
Inspection Cycle (Default) (months)	21												
Comment													