					ge Culve	ert Inspection					
Bridge File Nur	mber	71760 -1 Bridge Culvert				Form Type	CULM				
Year Built		1983				Lot No.	4				
Bridge or Town	Name					Inspector Name Melanie Johnson					
Located Over			ANIMAL, OVER	R SP		Inspector Class	BR CLS B				
Located On		654:02	C1 6.968			Assistant Name	_				
Water Body Cl.						Assistant Class					
Navigabil. Cl./Y					Inspection Date			27-Aug-2011			
Legal Land Loc		SW SE	C 17 TWP 58 R	RGE 4 W5M		Data Entry By	Theresa Lacu	sta			
Longitude, Lati			:54, 54:00:23			Data Entry Date		12-Sep-2011			
Road Authority			Transportation	(AIT)		Reviewer Name	Eric Carcoux				
Contract Main.		CMA10				Review Date	07-Sep-2011				
Clear Roadway	y/Skew	9.4 /				Dept. Reviewer Nam					
AADT/Year		420 / 20				Dept. Review Date	15-Sep-2011				
Road Classifica		RCU-20	9-110			Follow-Up By					
Detour Length		10									
Bridge Culver											
Number of Cul			2	I							
Pipe #	Barrel		Span 	Rise (or Dia.)	Туре	Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2200	MP	34	125X26	2.8	ROUND		
2	MAIN		-	900	MP	34			ROUND		
Special Feature	es		CONC FLOOR								
Special Feature	es Comi	ment									
D : 11/ 1	01	Б ;;	()	Р	osting li	nformation					
Required Vert.											
Posted Vertica					0.700						
Posted: Lane		On E	Bridge (m)	In Advance			O D : 1 / \		() (())		
Remarks	INOT FE	لم مسان بسم	- 3 - ()	In Advance	(Y/N)	No Lane SB	On Bridge (m)	In Advar	nce (Y/N) No		
Liche Ave		equired.	35 ()		, , ,		On Bridge (m)	In Advar	nce (Y/N) No		
Utility Attachments					, , ,	No Lane SB	On Bridge (m)	In Advar	nce (Y/N) No		
	ents		3-(-)		, , ,	ocated at)	On Bridge (m)	In Advar	nce (Y/N) No		
Telephone	ents South	ı r/w.			, , ,	ocated at)	On Bridge (m)	In Adva	nce (Y/N) No		
Telephone Power	ents South				, , ,	Gas Municipal	On Bridge (m)	In Advar	nce (Y/N) No		
Telephone Power Others	South 2 wire	ı r/w. es North ı	/w.	Ut	ilities (l	ocated at)	On Bridge (m)	In Advar	nce (Y/N) No		
Telephone Power	South 2 wire	ı r/w. es North ı	/w.	Ut I roof of primary	illities (l	Gas Municipal Problem (Y/N) No	On Bridge (m)	In Adva	nce (Y/N) No		
Telephone Power Others	South 2 wire	ı r/w. es North ı	/w.	Ut I roof of primary Approa	tilities (l	Gas Municipal Problem (Y/N) No		In Advar	nce (Y/N) No		
Telephone Power Others Remarks	South 2 wire	ı r/w. es North ı	/w.	I roof of primary Approa	/ pipe.	Gas Municipal Problem (Y/N) No	dition	In Advar	nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align	South 2 wire BF tag	ı r/w. es North ı	/w.	d roof of primary Approa Last	/ pipe.	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks	South 2 wire BF tag	ı r/w. es North ı	/w.	I roof of primary Approa	/ pipe.	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm	ents South 2 wire BF tag	ı r/w. es North ı	d on South end	d roof of primary Approa Last	/ pipe.	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align	ents South 2 wire BF tag	ı r/w. es North ı	/w.	d roof of primary Approa Last	/ pipe.	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment	BF tag	ı r/w. es North ı	d on South end	d roof of primary Approa Last	/ pipe.	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (ents South 2 wire BF tag nment nent h (m)	ı r/w. es North ı g installe	d on South end	d roof of primary Approa Last 7	/ pipe. ch Roa Now 7	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment	ents South 2 wire BF tag nment nent h (m)	ı r/w. es North ı g installe	d on South end	d roof of primary Approa Last 7	/ pipe. ch Roa Now 7	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (ents South 2 wire BF tag mment nent h (m) _:1) over(m):	ı r/w. es North ı g installe	d on South end	d roof of primary Approa Last 7	/ pipe. ch Roa Now 7	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (BF tag mment h (m) _:1) over(m):	g installe	9.400 8.0	Approa Last	/ pipe. ch Roa Now 7	Gas Municipal Problem (Y/N) No	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (BF tag mment h (m) _:1) over(m):	g installe	9.400 8.0	Approa Last	r pipe. ch Road Now 7 7	Gas Municipal Problem (Y/N) No I / Embankment Explanation of Cone Approaches both war 900 dia pipe is 34m V	dition /s.		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (BF tag mment nent in (m) in	g installe	9.400 8.0	Approa Last	rilities (Lorent Property of P	Gas Municipal Problem (Y/N) No I / Embankment Explanation of Cone Approaches both way 900 dia pipe is 34m V	dition ys. Vest of primary γ		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (ents South 2 wire BF tag mment nent h (m) :1) over(m): onent	g installe	9.400 3.0 No No Rt General Rat	I roof of primary Approa Last 7 7	rilities (I	Gas Municipal Problem (Y/N) No I / Embankment Explanation of Cone Approaches both war 900 dia pipe is 34m V	dition ys. Vest of primary γ		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (ents South 2 wire BF tag mment nent h (m) :1) over(m): onent	g installe	9.400 3.0 No No Rt General Rat	I roof of primary Approa Last 7 7 4 Last Last	rilities (I	Gas Municipal Problem (Y/N) No I / Embankment Explanation of Cone Approaches both way 900 dia pipe is 34m V	dition ys. Vest of primary γ		nce (Y/N) No		
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (ents South 2 wire BF tag mment nent h (m) _:1) over(m): onent onent	g installe 2.5) bankmer	9.400 3.0 No No Try Span)	I roof of primary Approa Last 7 7	rilities (I	Gas Municipal Problem (Y/N) No I / Embankment Explanation of Cone Approaches both way 900 dia pipe is 34m V	dition ys. Vest of primary γ		nce (Y/N) No		

Upstream End							
Culvert Component		1		Explanation of Condition			
(Pipe # : 1, Span Type: Primary	∠ ZSpan)	Last	INOW	Explanation of condition			
Headwall	у орину	Х	Х				
Collar		X	X				
Wingwalls			X				
(Shape:)		Х					
Cutoff Wall		Х	X				
Bevel End	I -	X	X				
Heaving (mm)	0						
Invert Above/Below Stream Bed							
Above/Below (mm)	100						
Scour Protection		X	X				
(Type: NATURAL)							
(Avg. Rock Size(mm) :)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Scour/Erosion		X	X				
Beavers (Y/N)	No						
Upstream End General Rating		9	7				
2.1				Ivert Barrel			
Culvert Component	tion Code: MAIN Sno		Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca Barrel Last Accessible Date	27-Aug-2011	n (mm	ı <u>):</u>	, Rise (mm): 2200, Type: MP) Primary span used as cattlepass			
Dairei Lasi Accessible Date	27-Aug-2011			Filliary span used as cattlepass			
Special Features							
Special Feature		N	N				
(Type : CONC FLOOR)							
Special Feature							
(Type:)							
Roof		4	5				
Measured Rise (mm)							
Measured At Ring No.							
Sag (mm)	165						
Percent Sag	7						
Sidewall		5	5	A4 ~ //			
Measured Span (mm)	2350			At c/l.			
Measured At Ring No.	2						
Deflection (mm)	135			6.8%			
Percent Deflection	7						
1 Greent Benedien		N.I.	N	Covered by mud.			
Floor	1	N	IN	Oovered by mad.			
Floor Bulge (mm)	0	N	IN	- Govered by mad.			
Floor Bulge (mm) Measured At Ring No.		IN	IN	- Covered by mad.			
Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N)	0 No	IN		Govered by mad.			
Floor Bulge (mm) Measured At Ring No.		5	5				

71760 -1 Bridge Culvert

		Brio	dge Cu	ulvert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm):	, Rise (mm): 2200, Type: MP)			
Longitudinal Seams		X	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		7	7				
Corrosion By Soil (Y/N)	No						
Corrosion By Water (Y/N)	No						
Camber POS/ZERO/NEG	NEG						
Ponding (Y/N)	Yes			(Ponded 250mm at lowest point. 2001/08/15)			
Fish Passage Adequacy		Х	Х				
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		Х	X				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		4	5				
		D	ownstr	ream End			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Span Type: Primary	Span)						
Direction	•	N					
End Treatment (Concrete, Steel, Others, None)	NONE						
Headwall		Х	Х				
Collar		Х	Х				
Wingwalls		Х	Х				
(Shape:)							
Cutoff Wall		Х	Х				
Bevel End		Х	Х				
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	150						
Scour Protection		X	N	(Concrete pad 3m x 2.5m. 2001/08/15)			
(Type:)							
(Avg. Rock Size(mm):)							
Scour/Erosion		X	X				
Beavers (Y/N)	No						
Downstream End General Ratin	ng	9	7				

71760 -1 Bridge Culvert

			Upstre	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction	I	S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dae Cu	vert Barrel
			_	
Culvert Component		Last	Now	Explanation of Condition
Culvert Component (Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			Explanation of Condition , Rise (mm): 900, Type: MP)
-	ocation Code: MAIN, S			
(Pipe # : 2, Secondary Span, Lo				, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo				, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature				, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :)				, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature				, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :)			mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof		Span (i		, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm)		Span (i	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No.		Span (i	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)		Span (i	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag		Span (I	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall		Span (i	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)		Span (I	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.		Span (I	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)		Span (I	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection		5 5	N N	, Rise (mm): 900, Type: MP) Viewed from both ends only. Could not see much
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor	09-Feb-2005	Span (I	mm):	, Rise (mm): 900, Type: MP) Viewed from both ends only.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)		5 5	N N	, Rise (mm): 900, Type: MP) Viewed from both ends only. Could not see much
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	09-Feb-2005	5 5	N N	, Rise (mm): 900, Type: MP) Viewed from both ends only. Could not see much
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	09-Feb-2005	5 5	N N	, Rise (mm): 900, Type: MP) Viewed from both ends only. Could not see much

71760 -1 Bridge Culvert

Bridge Culvert Barrel						
Culvert Component		Last	Now	Explanation of Condition		
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	pan (n	nm):	, Rise (mm): 900, Type: MP)		
Longitudinal Seams		X	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	N	Corrosion/scaling lower 1/2 - photo07-May-2008		
Corrosion By Soil (Y/N)						
Corrosion By Water (Y/N)	Yes					
Camber POS/ZERO/NEG	ZERO					
Ponding (Y/N)	No					
Fish Passage Adequacy		Х	Х			
Baffle		Х	Х			
(Type:)						
Waterway Adequacy		N	5			
Icing (Y/N)	No					
Silting (Y/N)	No					
Drift (Y/N)	No					
Barrel General Rating		5	N	GR was 5 from 07-May-2008		
		D	ownstr	ream End		
Culvert Component		Last	Now	Explanation of Condition		
(Pipe # : 2, Span Type: Second	ary Span)					
Direction		N				
End Treatment (Concrete, Steel, Others, None)	STEEL					
Headwall		Х	Х			
Collar		Х	Х			
Wingwalls		Х	Х			
(Shape:)						
Cutoff Wall		X	X			
Bevel End		6	6			
Heaving (mm)	0					
Invert Above/Below Stream Bed	BELOW					
Above/Below (mm)	100					
Scour Protection		7	5			
(Type:)						
(Avg. Rock Size(mm):)						
Scour/Erosion		5	5			
Beavers (Y/N)	No					
Downstream End General Ratin	ng	6	5			

Structure Usage						
			Now	Explanation of Condition		
Grade Separation						
Road Alignment		8	8			
Roadway Surface		8	8			
(Type:)						
Icing (Y/N) No						
Traffic Safety Features		Х	Х			
Туре	None		_			
Lighting		X	X			
Barrel Leakage (Y/N) No						
Drainage		4	4	(Negative camber leaves up to 250mm ponded in middle & more if gravel washes out. 2001/08/15)		
Structure In Use (Y/N)	Yes			Appears well used.		
Grade Separation General Rati	ng	4	4			

		Maintenance Ro	ecommend	lations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING)								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 44.4/55	.6 Sufficiency Rating (Last/	Now)	64.5/55.7	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	No
Special Monitor deflections. Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 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	27-Nov-2014		Previous	Inspection Date	07-May-2008				
Inspection Cycle (Default) (months)	39								
Comment									