					<u>sriag</u>	e Cuive	ert Insp	ection					
Bridge File Nun	nber	73361	-2 Bridge Culve	rt			Form Type CULM			CULM			
Year Built		2001					Lot No.		4				
Bridge or Town	Name	LISBUI	RN				Inspec	tor Name		Eric Carcoux			
Located Over							Inspector Class			BR CLS A			
Located On							Assistant Name		Brian Cote				
Water Body Cl.	/Year	75.101	(1 23.193,43.10	7 1 23.130	<u>,                                     </u>			nt Class					
Navigabil. Cl./Y								pection Date 26-Aug-2011					
Legal Land Loc		SE SE	^ 28 TWP 56 R	GE 6 W5M	I			ntry By		Theresa Lacusta			
Longitude, Latit				OL O VVOIVI				ntry Date	28-Sep-2011				
Road Authority				(AIT)·Cana	adian			eviewer Name Arnold Assenheimer					
Troda / tatriority		Nationa	al Railways	(/11/),04116	Jaiaii		Review Date 26-Sep-2011						
Contract Main.								Reviewer n Review Da		ame Brent Herrick			
Clear Roadway	/Skew						Follow		ile	28-Sep-2011			
AADT/Year							FOIIOW	-ор Бу					
Road Classifica		RFD-4	12.4-130										
Detour Length	`	3											
		ation											
Number of Culv	/erts				1								
Pipe #	Barrel		Span	Rise (or D	ia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1500		SP		104.24		152X51	3.0,3.0,3.0	ROUND	
2	2001 In Name LISBURN  2ND ORDER TRIBUTARY TO PERIVER, 8.11.84.41.2, WATERCRS 43:18 R1 23.193;43:18 L1 23.190  JYear JYAR JYAR JYAR JYAR JYAR JYAR JYAR JY			MP		27.4				ROUND			
Special Feature	es		DROP STRUC	TURE, BA	RREL	_ELBO	W						
Special Feature	es Comr	ment											
					I IA:	l:4:aa /I	ocated	<b>~4</b> \					
					Oti	แแลว (เ	.ocateu	aı)					
I Itility Attachme	nte												
Utility Attachme	ents						Gas						
Telephone		W r/w					Gas	nal					
Telephone Power		W r/w					Munici						
Telephone Power Others		W r/w					Munici	pal m (Y/N)					
Telephone Power		W r/w		Apj	proac	ch Road	Munici Proble						
Telephone Power Others		W r/w			proac Last	h Road	Munici Proble	m (Y/N)	Condit	ion			
Telephone Power Others	1 OH	W r/w					Munici Proble	m (Y/N) ankment	Condit	ion			
Telephone Power Others Remarks	1 OH	W r/w			Last	Now	Munici Proble	m (Y/N) ankment	Condit	ion			
Telephone Power Others Remarks Horizontal Align	1 OH	W r/w			ast 7	Now 7	Munici Proble	m (Y/N) ankment	Condit	ion			
Telephone Power Others Remarks Horizontal Align	1 OH	W r/w			ast 7	Now 7	Munici Proble / Emb Explar	m (Y/N) ankment		ion			
Telephone Power Others Remarks Horizontal Align	1 OH	W r/w	24.800		ast 7	Now 7	Munici Proble 1 / Emb Explar	m (Y/N) ankment	ured.	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignment	1 OH	W r/w	24.800		7 8	Now 7	Munici Proble 1 / Emb Explar	ankment nation of C	ured.	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignma Roadway Width Embankment	1 OH	W r/w	24.800		ast 7	Now 7 8	Munici Proble 1 / Emb Explar	ankment nation of C	ured.	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	1 OH				7 8	Now 7 8	Munici Proble 1 / Emb Explar	ankment nation of C	ured.	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignma Roadway Width Embankment	1 OH  nment ent  (m)  :1) ver(m):				7 8	Now 7 8	Munici Proble 1 / Emb Explar	ankment nation of C	ured.	ion			
Telephone Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	1 OH  nment ent  (m)  :1)  ver(m):	8.5)	3.0		7 8	Now 7 8	Munici Proble 1 / Emb Explar	ankment nation of C	ured.	ion			
Telephone Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	1 OH  nment ent  (m)  :1)  ver(m):	8.5)	3.0 No		8 8	8 8	Munici Proble I / Emb Explar North s	ankment nation of C	ured.	ion			
Telephone Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	1 OH  nment ent  (m)  ver(m):	8.5)	3.0 No	ing	8 8	Now 7 8 8	Munici Proble I / Emb Explar North s EB & V	ankment nation of C	ured.				
Telephone Power Others Remarks Horizontal Align Vertical Alignment Roadway Width Embankment Sideslope (	1 OH  nment ent  in (m)  :1)  ver(m):	8.5)	3.0 No	ing	8 8	8 8	Munici Proble I / Emb Explar North s EB & V	ankment nation of C	ured.				
Telephone Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N) Approach Roa  Culvert Compo (Pipe # : 1, Sp.	1 OH  nment ent  in (m)  :1)  ver(m):	8.5)	3.0 No	ing	8 8 8	Now 7 8 8	Munici Proble I / Emb Explar North s EB & V	ankment nation of C	ured.				
Telephone Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	1 OH  nment ent  (m)  ver(m):	8.5)  pankme	3.0  No  ent General Rat	ing	8 8	Now 7 8 8	Munici Proble I / Emb Explar North s EB & V	ankment nation of C	ured.				
Telephone Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	1 OH  nment ent  (m)  ver(m):	8.5)  pankme	3.0  No  ent General Rat	ing	8 8 8	Now 7 8 8	Munici Proble I / Emb Explar North s EB & V	ankment nation of C	ured.				

73361 -2 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: )				
Collar  Wingwalls (Shape: ) Cutoff Wall  Bevel End Heaving (mm) 0 Invert Above/Below Stream Bed BELOW Above/Below (mm) 300  Scour Protection		X	X	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		5	5	Animal den ~ 5m d/s from inlet
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
•	tion Code: MAIN, Spa			, Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	11-Nov-2009			Only d/s end of barrel accessible
Special Features				
Special Feature		7	N	Concrete bulkhead.
(Type : <b>DROP STRUCTURE</b> )				Connector to railway pipe11-Nov-2009
Special Feature				
(Type:)				
Roof		8	8	
Measured Rise (mm)	1490			10th ring from d/s
Sag (mm)	10			
Percent Sag	1			
		8	8	
	1500			40th sings for an all-
Invert Above/Below Stream Bed Above/Below (mm) 300  Scour Protection (Type: RIP RAP) (Avg. Rock Size(mm): 300)  Scour/Erosion  Beavers (Y/N) No  Upstream End General Rating  Culvert Component (Pipe #: 1, Primary Span, Location Code: MAIN, Searel Last Accessible Date 11-Nov-2009  Special Features Special Feature (Type: DROP STRUCTURE) Special Feature (Type:)  Roof Measured Rise (mm) 1490 Measured At Ring No. Sag (mm) 10 Percent Sag 1  Sidewall Measured At Ring No. Deflection (mm) Percent Deflection 0  Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) 0 Longitudinal Seams				10th ring from d/s
	0			
		8	8	
		8	8	
	0	0	0	
	l o	7	7	
Total No. of Cracked Rings	0	,	,	
Total No. of Rings with Two	0			
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N stagger.
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm	<b>)</b> :	, Rise (mm): 1500, Type: SP)
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
-				
			T	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, L		Span (r	nm):	, Rise (mm): 1070, Type: MP)
Barrel Last Accessible Date	11-Nov-2009			NOt accessible
Special Features				
Special Feature		X	X	
(Type : BARREL ELBOW)				
Special Feature				
(Type:)				
Roof		7	N	
Measured Rise (mm)	1047			
Measured At Ring No.	2			
Sag (mm)	23			
Percent Sag	2			
Sidewall		7	N	
Measured Span (mm)	1082			
Measured At Ring No.	2			
Deflection (mm)	12			
Percent Deflection	1			
Floor		7	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	N	
Separation (mm)				
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel				
Between Cracks (mm)	1			-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				

73361 -2 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	pan (r	nm):	, Rise (mm): 1070, Type: MP)
Coating		5	N	Superficial rust lower 1/211-Nov-2009
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	N	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	N	
Icing (Y/N)	No			Object in pipe approx 5m from South end11-Nov-2009
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		7	N	Last rated 7 -11-Nov-2009
		D	ownstr	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : <b>2, Span Type:</b> )				
Direction		N		
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)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	350			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating			7	
		s	Structur	re Usage
				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)	Yes			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		6	6					

			Maintenance	Recommen	dations					
Inspector Recommendations	Year	Inspector C	Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·			·					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 77.8/7	77.8 S(%)	ufficiency Rating (La %)	st/Now)	71.5/71.5	Est. Repl. Yr	2055	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Melanie Johr	ison		Previous	Assistant's Name					
Next Inspection Date	26-May-2013			Previous	Inspection Date	11-Nov-2009				
Inspection Cycle (Default) (months)	21									
Comment										