Entire Number 2555 - 1 Bridge Culvert Form Type CULM						Brido	ie Culve	ert Inspe	ction						
Vear Built	Bridae File Nur	mber	72555 -	1 Bridge Culve	rt	zirag	,o cuit				CULM				
ARDMORE Inspector Name Inspector N									, p = -		2				
Located On		Name		DRF					Inspector Name		Todd Warshawski				
Mater	Located Over							<u> </u>							
Assistant Class					-D0-0T										
Inspection Date	Located On 659:02 C1 24.296														
Data Entry By	Water Body Cl.	./Year								14-Dec-2011					
Legal Land Location Long flued, Lasting Land Location	Navigabil. Cl./Y	'ear						· ·	·		Theresa Lacu	sta			
Longlude, Latitude	Legal Land Loc	cation	NW SE	C 3 TWP 61 R	GE 3 W4N	/				14-Jan-2012					
Review Date Q4-Jan-2012	Longitude, Lati	tude	-110:22	:50, 54:14:59		ľ									
Dept. Reviewer Name Brent Herrick	Road Authority	Transportation	(AIT)												
Dept. Review Date 18-Jan-2012	Contract Main.	Area	CMA08							ame	Brent Herrick				
AADT/Year 800 / 2010 (A) Road Classification Rodu-210-110 Detour Length (km) 8 Bridge Culvert Information Number of Culverts 2 Pipe # Barrel Span Rise (or Dia.) Type Length Corr. Profile Pl./Slab Thickness 1	Clear Roadway	//Skew	9.8 / 45	deg. (RHF)											
Reductive Redu	AADT/Year		800 / 20	10 (A)											
String Culvert Information Number of Culverts 2	Road Classifica	ation	RCU-21	0-110					- 1						
Number of Culverts 2	Detour Length	(km)	8												
Pipe # Barrel															
Main		verts													
Main -	Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile		Shape		
Special Features Special Features Comment Utilities (Located at) Unicipal Others Remarks BF tag on top of North pipe West end roof. Approach Road / Embankment Last Now Explanation of Condition Horizontal Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of the North end of the horizontal curve. Wertical Alignment For a suppose of the North end of	1	MAIN		-	2000		MP		42		125X26	2.8	ROUND		
Utility Attachments Telephone West r/w. Gas Municipal Others Remarks BF tag on top of North pipe West end roof. Approach Road / Embankment Last Now Explanation of Condition Horizontal Alignment 7 7 7 Roadway Width (m) 9.800 Embankment 7 7 7 Sideslope (_:1) 4.0 (Height of Cover(m): 2) Guardrail (Y/N) No Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment End Others, Now Explanation of Condition Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment General Rating 6 6 Culvert Component Last Now Explanation of Condition (Fipe # : 1, Span Type: Primary Span) Direction W North pipe End Treatment (Concrete, Steel, STEEL Others, None) Headwall X X X Wingwalls X X X	2	MAIN		-	2000		MP		42		125X26	2.8	ROUND		
Utilities (Located at) Utility Attachments Telephone West r/w. Gas Municipal Others BF tag on top of North pipe West end roof. Approach Road / Embankment Horizontal Alignment 6 6 6 At the North end of the horizontal curve. Wertical Alignment 7 7 7 Sideslope (_:1) 4.0 (Height of Cover(m) : 2) Guardrail (Y/N) No Approach Road / Embankment General Rating 6 6 Upstream End Culvert Component Last Now Explanation of Condition Upstream End Culvert Component Last Now Explanation of Condition W North pipe The Approach Road / Embankment General Rating Now Explanation of Condition W North pipe STEEL Wingwalls W North pipe W North pipe Collar X X X Wingwalls	Special Feature	es													
Utility Attachments	Special Feature	es Comi	ment												
Utility Attachments															
Telephone						Ut	ilities (L	Located a	at)						
Municipal Problem (Y/N) No	•														
Others Remarks BF tag on top of North pipe West end roof. Approach Road / Embankment Last Now Explanation of Condition	·	West	r/w.	<u>/w.</u>											
Remarks BF tag on top of North pipe West end roof. Approach Road / Embankment Last Now Explanation of Condition															
Approach Road / Embankment Last Now Explanation of Condition								Problem	n (Y/N) N	10					
Horizontal Alignment Horizontal Alignment Horizontal Alignment Roadway Width (m) 9.800 Embankment 7 7 Sideslope (_:1) (Height of Cover(m) : 2) Guardrail (Y/N) No Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment General Rating 6 6 Culvert Component (Pipe # : 1, Span Type: Primary Span) End Treatment (Concrete, Steel, Others, None) Headwall X X Wingwalls Wingwalls	Remarks	∃BF tag	g on top (of North pipe W											
Horizontal Alignment Vertical Al					A					a madi	tion				
Vertical Alignment Roadway Width (m) 9.800 Embankment 7 7 Sideslope (_:1) (Height of Cover(m): 2) Guardrail (Y/N) No Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment General Rating 6 6 Upstream End Culvert Component Last Now Explanation of Condition (Pipe #: 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall X X Wingwalls X X Wingwalls	Harizantal Alig	omont													
Roadway Width (m) 9.800 Embankment 7 7 Sideslope (_:1)						_		At the iv	, a alo riolationa of the honzontal outve.						
Embankment 7 7 Sideslope (_:1) 4.0 (Height of Cover(m) : 2) Guardrail (Y/N) No Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment General Rating 6 6 Culvert Component Last Now Explanation of Condition (Pipe # : 1, Span Type: Primary Span) Direction W North pipe End Treatment (Concrete, Steel, Others, None) Headwall X X Wingwalls X X Wingwalls				0.800		/									
Sideslope (_:1)	Roadway Widti	11 (111)		9.800											
(Height of Cover(m) : 2) Guardrail (Y/N) No Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment General Rating 6 6 Upstream End Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall X X Wingwalls X X Wingwalls	Embankment					7	7								
Guardrail (Y/N) No Inlets and outlets in clear zone. Consider installing guardrail. Approach Road / Embankment General Rating Upstream End	Sideslope (_:1)		4.0											
Approach Road / Embankment General Rating Upstream End	(Height of Co	ver(m) :	2)												
Upstream End Culvert Component	Guardrail (Y/N)			No				Inlets and outlets in clear zone. Consider installing guardrail.							
Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar X X Wingwalls Now Explanation of Condition X X X North pipe X X X X X	Approach Roa	ad / Eml	oankmer	nt General Rat	ing	6	6								
Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar X X Wingwalls Now Explanation of Condition X X X North pipe X X X X X							Upstre	am End							
(Pipe # : 1, Span Type: Primary Span) Direction	Culvert Comp	onent				Last		_	ation of Co	ondi	tion				
Direction W North pipe End Treatment (Concrete, Steel, STEEL Others, None) Headwall X X Collar X X Wingwalls X X			e: Prima	ry Span)											
End Treatment (Concrete, Steel, STEEL Others, None) Headwall X X Collar X X Wingwalls X X	Direction					W		North pi	pe						
Headwall X X Collar X X Wingwalls X X	End Treatment Others, None)	(Concre	ete, Stee	I, STEEL											
Wingwalls X X	Headwall					Х	X								
	Collar			Х	X										
(Shape:)	Wingwalls				Х	X									
	(Shape:)														

72555 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		Х	Х	
Bevel End		N	N	Submerged.
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
(Pipe # : 1, Span Type: Primary Span) Cutoff Wall Bevel End Heaving (mm)				
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	G.R. carried forward from 07/June/2005.
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	n):	, Rise (mm): 2000, Type: MP)
Barrel Last Accessible Date	19-Mar-2002			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	600 water level to crown. Viewed from ends, shape & condition look
Measured Rise (mm)				good. Both ends submerged, not much is visible.
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)	1970			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	10			
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		N	N	(Minor superficial rusting lower 3/4. 19/Mar/2002)
Corrosion By Soil (Y/N)				<u> </u>
Corresion By Water (Y/N)				1

		Brio	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm) :	, Rise (mm): 2000, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			1.8m - Aug, 2008
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	Wide low flood plain.
Icing (Y/N)	Yes			(19/Mar/2002)
Silting (Y/N)	No			(10/Mai/2002)
Drift (Y/N)	No			
Barrel General Rating			N	G.R. was "7" from 07/June/2005 but may be carried fwd since 19/Mar/2002.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Direction		Е		North pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Others, None)		Х	Х	
Wingwalls (Shape:)		Х	Х	
Cutoff Wall		Х	X	
Cuton wan		_ ^		
Bevel End		N	N	Submerged.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	G.R. carried forward from 07/June/2005.
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	

72555 -1 Bridge Culvert

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	N	Submerged.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			(19/Mar/2002)
Above/Below (mm)	600		_	
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)			_	
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	G.R. carried forward from 07/June/2005.
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2000, Type: MP)
Barrel Last Accessible Date	19-Mar-2002			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		<u>'</u>		
Roof		N	N	600 water level to crown. Viewed from end, shape & condition look
Measured Rise (mm)				good. Barrel submerged, not much is visible.
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)	2010			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	10			
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)				1
Longitudinal Stagger (Y/N)				1
Coating		N	N	(Minor superficial rusting lower 3/4. 19/Mar/2002)
Corrosion By Soil (Y/N)		1.4	14	- (mino. Superficial rusting lower 6/4. 15/Mai/2002)
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Cambol I Co/ZEI(O/IVEC	1,120			

72555 -1 Bridge Culvert

		Brid	lge Cu	Culvert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	3pan (r	nm):	, Rise (mm): 2000, Type: MP)						
Ponding (Y/N)	Yes			2.0m - Aug,2008						
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		5	5	Wide low flood plain.						
Icing (Y/N)	Yes			(19/Mar/2002)						
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		N	N	G.R. was "7", possibly carried forward since 19/Mar/2002.						
		D	ownst	ream End						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 2, Span Type: Second	dary Span)									
Direction		Е		South pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		X	X							
Bevel End		N	N	Dubmerged.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			(19/Mar/2002)						
Above/Below (mm)	800									
Scour Protection		N	N	-						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Downstream End General Rati	ng	7	7	G.R. carried forward from 07/June/2005.						
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7	Wide flood plain.						
Bank Stability		9	9							
HWM (m below Top of Culvert)	0.0			Ice to crown						
Drift (Y/N)	Yes			<u></u>						
Channel Bottom Degrading/Aggrading										
Beavers (Y/N)	No									

	Structure Usage									
		Last	Now	Explanation of Condition						
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

			Maintenance	Recommend	lations						
Inspector Recommendations	Year	Inspecto	or Comments		Department Con		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	2012	Conside	r installing guardrail.								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 55.6/	55.6	5.6 Sufficiency Rating (Last/		59.8/59.6		. Repl. Yr	2035	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date				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	14-Mar-2015			Previous	Inspection Date		10-Aug-2008	3			
Inspection Cycle (Default) (months)	39										
Comment											