Bridge Culvert Inspection													
Bridge File Nun	nber	75616 -	1 Bridge Culver	t			Form Type			CULM			
Year Built 1963						Lot No.			2				
Bridge or Town Name LEDUC						Inspector Name			Todd Warshawski				
Located Over TRIBUT			JTARY TO WHITEMUD CREEK,				Inspector Class			BR CLS B			
		6.95.3,	6.95.3, WATERCRS-ST				Assistant Name						
Located Off 2.30 R			(1 32.308;2:30 L1 32.319				Assistant Class						
Water Body Cl./Year								Inspection Date		19-Apr-2013			
Navigabil. Cl./Year					4 5 4		Data Entry By			Theresa Lacusta			
Legal Land Loc	alion	35 350	22 TVP 49 R	JE 20 VV2	+IVI		Data Entry Date			30-Apr-2013			
Longitude, Latit	ude	-113:33	.53, 53:14:21 Transportation	(AIT)			Reviewer Name			Eric Carcoux			
Contract Main	Aree	CMA11	Transportation	(AIT)			- Review Date			29-Apr-2013			
Clear Boodwov	Alea						Dept. F	Reviewer	Name	Brent Herrick			
	JOKEW	27 /20	/ 2012 (Δ)				Dept. F	Review Da	ate	01-May-2013			
Road Classifica	ation	RAD-41	24-120				Follow	∙Uр Ву					
Detour Length	(km)	1	2.4-120				-						
Bridge Culvert		ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2677	1700		CPE		56.4				ELLIPSE	
2	MAIN		2677	1700		CPE		56.4				ELLIPSE	
Special Feature	es		STORM WATER DRAIN			-				1			
Special Feature	es Comi	ment											
·													
					Uti	lities (L	ocated	at)					
Utility Attachme	ents						-		1				
Telephone West r/w.							Gas						
Power													
Others	Fibre	optics West r/w.											
Remarks	BF tag	g on NE	ріре	۸.		h Dee	d / Emala	- n km o n t					
				A	l ast	Now	Evolar	ation of	Condi	tion			
Horizontal Align	nment				8	8	Curve to north.						
Vertical Alignme	ent				9	9	1						
Roadway Width	n (m)		22.000				NBL 11.0, SBL 11.0.						
Embankment					9	9							
Sideslope (_:1)		4.0										
(Height of Co	ver(m) :	1.2)											
Guardrail (Y/N)			Yes				Rail/FLEAT end is too low on SE. Missing/broken spacer blocks on E rail.						
Approach Roa	id / Eml	bankme	nt General Rati	ing	8	8							
						linstro	am End						
Culvert Compo	onent				Last	Now	Explar	ation of	Condi	tion			
(Pipe # : 1, Sp	an Type	e: Prima	ry Span)										
Direction			· · /		E		North r	pipe.					
End Treatment (Concrete, Steel, CONCRETE Others, None)					r								
Headwall					Х	X							
Collar			Х	Х									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	Spalling, exposed rebar on crown.
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	Very little rock, well vetetated.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	5	5	
		Brie	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2677	/, Rise (mm): 1700, Type: CPE)
Barrel Last Accessible Date	19-Apr-2013			
Special Features		1		
Special Feature		X	X	Storm drain is in South pipe.
(Type : STORM WATER DRAI	N)			
Special Feature				
(Туре :)				
Roof		7	7	Rise not measured due to ice.
Measured Rise (mm)	1693			Sag est less than 1%.
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	2672			
Measured At Ring No.	13			
Deflection (mm)	0			
Percent Deflection	0			
Floor		7	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N) No				
Circumferential Seams		4	4	Minor soil infiltration @ few joints.
Separation (mm) 50				
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)				1
Longitudinal Stagger (Y/N)				1

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm)): 2677	, Rise (mm): 1700, Type: CPE)					
Coating		Х	X						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N) No									
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N) No									
Fish Passage Adequacy		7	7						
Baffle		N	Х						
(Type :)		1	1						
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No		1						
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	Span)								
Direction	•	W		North pipe.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		6	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	250								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)			1						
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	6	6						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		E		South pipe.					
End Treatment (Concrete, Steel, CONCRETE Others, None)									
Headwall		Х	X						
Collar			Х						

			Upstre	am End					
Culvert Component		Last	Now	End planation of Condition Barrol Janation of Condition Rise (mm): 1700, Type: CPE) rm water srain at culv. cl in median. par attaching R1 to bevel end. mm rebar detached from bevel end. bar attaching rebar e not measured due to ice. g est less than 1 %.					
(Pipe # : 2, Span Type: Second	lary Span)								
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		7	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating	1	7	6						
		Bri	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (ı	nm): 26	677, Rise (mm): 1700, Type: CPE)					
Barrel Last Accessible Date	19-Apr-2013								
Special Features									
Special Feature				Storm water srain at culv. cl in median.					
(Type :)									
Special Feature									
(Туре :)									
Roof		7	7	Rebar attaching R1 to bevel end.					
Measured Rise (mm)	1696			(22mm rebar detached from bevel end @ West end. Spall @ West end of barrel exposing rebar -					
Measured At Ring No.									
Sag (mm)	0			Rise not measured due to ice.					
Percent Sag	0			Sag est less than 1 %.					
Sidewall		7	7						
Measured Span (mm)	2637								
Measured At Ring No.	17								
Deflection (mm)	0								
Percent Deflection	0								
Floor		7	N						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		4	4	Minor infiltration.					
Separation (mm)	40			1					
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					

Bridge Inspection & Maintenance System (Web 2005)

75616 -1 Bridge Culvert

Culvert Compensat		Last		Evaluation of Condition
(Pipe # : 2 Secondary Sport	Cation Code: MAIN			
Cooting	cation code. MAIN, a		<u>1111). 20</u>	(mm): 1700, Type: CPE)
Correction By Soil (V/N)	No	^	^	
Corrosion By Water (V/N)	No			
	7500			
Camber POS/ZERO/NEG ZERO				
Ponding (Y/N) No				
Fish Passage Adequacy			7	
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	
Culvert Component		D	ownstr	eam End
(Pipe # : 2 Span Type: Second	lary Span)	Lasi	NOW	
Direction		10/		South pipe
End Transmont (Constants, Stool	CONCRETE	VV		
Others, None)	CONCRETE			
Headwall			X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	4	Attachment bracket broken
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	275		1	
Scour Protection		7	7	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ration	ng	7	4	
		s	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)	0.8			Ice level, April, 2013
Drift (Y/N)	No			

Bridge Inspection & Maintenance System (Web 2005)

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading	AGGRADING			Buildup of soils/grass at outlet				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	8					

Maintenance Recommendations												
Inspector Recommendations	Year	Inspector	Comments		Department Com	nments			Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION	2013	Remove b	buildup at outlets.									
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION	2013	Raise SE missing/b	E terminal end, replace proken spacer blocks.									
OTHER ACTION	2013	Reattach	SW bevel brace.									
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No. (%)	ow) 77.8/77	.8 Sufficiency Rating (Las (%)		Now)	72.2/69.9 Est. Repl. Yr 2040		2040	Maint. Reqd. (Y/N) Yes		Yes		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date			E	Estimated Total	0		
Proposed Long-Term Strategy								İ				
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Shane Hall			Previous Assistant's Name								
Next Inspection Date	19-Jan-2015			Previous I	revious Inspection Date 14-Jul-2011							
Inspection Cycle (Default) (months)	21											
Comment												