					Brida	a Culve	art Inen	ection						
Bridge File Number 72273 -2 Bridge Culvert				Billag	idge Culvert Inspect Form Type				CUL1					
Year Built 2009		_				Lot No.			1					
Bridge or Town	Name						Inspector Name			Wade Nanninga				
Located Over	11441110		REEK, 8.11.10	0 WATEI	RCRS	S-ST	Inspector Class			BR CLS A				
Located On		658:02 C		, , , , , , , , , , , , , , , , , , ,	10110	, 01	Assistant Name		DIC OLO /C					
Water Body Cl.	/Year	000.02					Assistant Class							
Navigabil. Cl./Year						Inspection Date		30-Nov-2012						
		SW SEC	25 TWP 59 R	RGF 10 W	5M		Data Entry By			Theresa Lacus	sta			
3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-		COL 10 VV	0111		Data Entry Date			16-Apr-2013				
								Reviewer Name		Eric Carcoux				
Contract Main. Area CM		CMA12						Review Date		19-Dec-2012				
		-						Dept. Reviewer Name						
AADT/Year	OROW	1,150 / 2					Dept. Reviewer Name Dept. Review Date		23-Apr-2013					
Road Classifica	ation	RAU-210					Follow		<u> </u>	20 7 (p. 2010				
Detour Length		40	, 110				- 0.10	Op By						
Bridge Culvert														
Number of Culv		1	 											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	_		3990		SP		95.1		152X51	4.0	ROUND		
Special Feature	es			'		'		'						
Special Feature	es Comi	ment												
					Ut	ilities (L	_ocated	at)						
Utility Attachme		,												
Telephone	West						Gas							
Power	3 wire	20m Eas	st of c/l.				Municipal							
Others							Problem (Y/N) No							
Remarks				۸۰	N 1 4 4 4	ah Daar	d / Emb	an kmant						
				Aļ	Last		_	ankment		tion				
Horizontal Align	nment				7	7	Explanation of Condition Sag curve over pipe, limited site distance to the North. Posted for the North of th					h Posted for 50		
Horizontal Alignment				6	6		km/hr due to town.				11. 1 03100 101 00			
Vertical Alignment Roadway Width (m)		10.000												
Embankment					4 3			NW embankment slidingphoto Affecting d/s end.						
Sideslope (:1)		3.0				Approx 60% of embankment has no topsoil/vegetation. Appears recently hydroseededphoto27-Oct-2011							
(Height of Co	· ·	: 9)								•				
Guardrail (Y/N)		<u> </u>	Yes		Erosion gully in NE di					ch - 2mx1mz0.5	im			
Approach Roa	ıd / Eml	bankmen	t General Rat	ing	6	6								
						Unstre	am End							
Culvert Compo	onent				Last			ation of	Condi	tion				
Direction					E									
End Treatment Others, None)	(Concre	ete, Steel	CONCRETE											
Headwall				8	8	Medium cracks forming								
Collar			8	8										
Wingwalls			Х	Х										
(Shape:)														
Cutoff Wall			N	N										

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)	0			
	BELOW			
Above/Below (mm)	500			
Scour Protection	1000	7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
20041/21001011		•		
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
opstream End General Rating				
				Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		n (mm	1):	, Rise (mm): 3990, Type: SP)
Barrel Last Accessible Date	30-Nov-2012			Rise measurements not possible due to approx. 1.0m rock/gravel on floor.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		3	3	Rise measurements not possible due to rock on floorphoto
Measured Rise (mm)				Negative sag is approx 10% in ring 24.
Measured At Ring No.	24			R15 has est neg sag of 7%.
Sag (mm)				Cracked seam in roof R24photo
Percent Sag	10			
Sidewall		3	3	Ring 23-25 pushed in from 12:00 - 4:00 position due to embankment
Measured Span (mm)	3500			slide on NW cornerphoto.
Measured At Ring No.	25			Sidewall pushing in at 7:00- 8:00 position in rings 24-25. Worst in
Deflection (mm)	490			rings 24-25. Measured neg deflection is 12%.
Percent Deflection	12			
Floor		N	N	Covered with silt/water.
Bulge (mm)	0			Government site materia
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	110	4	4	R24/25 seam cracked in midspan bolt (North side) crack 100mm
Separation (mm)	0			long.
Longitudinal Seams		3	3	
Total No. of Cracked Rings	1	3	3	5mm crack in 1 bolt of R15.
Total No. of Rings with Two	1			Roof seam in R24 cracked est 70mm steek remainingphoto
Cracked Seams	'			Vertical crack in R24 N sidewall of 2 boltsphoto
Min. Remaining Steel Between Cracks (mm)	70			2N
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	Rusting through bolt holes in ring 25 and d/s bevel.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 3990, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		4	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
			own of	ream End
Culvert Component		Last		Explanation of Condition
Direction	<u> </u>	W	INOW	Explanation of Condition
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	Х	
Bevel End		4	4	Edges pushed in from embankment slide 300mm.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700		1	
Scour Protection		8	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1	1	
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		8	1	
Alignment			8	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			In channel d/s.
Channel Bottom Degrading/Aggrading				None 40m upstream.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating			8	

			Maintenance I	Recommend	ations					
Inspector Recommendations	Ye	ear Insp	ector Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	l									
INSTALL CONCRETE/STEEL LINI	NG									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CU	JTOFF									
REPAIR SEAMS										
OTHER ACTION		Con	air embankment slide at NW c sider extending culvert and fla slope to stabalize slope.	orner. Itening						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last	/Now) 33	.3/33.3	Sufficiency Rating (Las	t/Now)	19.5/55.7	Est. Repl. Yr	2060	Maint. Re	qd. (Y/N)	Yes
Special Monitor culvert d Comments for Next Inspection	eflections and	l cracked rii	ngs.		Department Comments					
Maintenance Reviewed By					Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy									·	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Wade Nar	nninga		Previous	evious Assistant's Name					
		29-Feb-2016 Prev			us Inspection Date 15-Mar-2012					
•					· ·	-				
Inspection Cycle (Default) (months)	39									