Bridge Inspection & Maintenance System (Web 2005)

					Bridg	e Culve	ert Inspe	ection						
Bridge File Nur	nber	01198 -1	1 Bridge Culve	rt			Form T			CULE				
Year Built 1960							Lot No.	•••						
Bridge or Town Name WILLINGDON							Inspector Name			1 Owen Salava				
Located Over TRIBUTARY TO NORTH SASKA RIVER, 6.37, WATERCRS-ST					ATCH	EWAN	Inspector Class			BR CLS A				
RIVER, 6.37, WATERCRS-ST							· ·	nt Name						
Located On 857:06 C1 13.991							Assista	nt Class						
Water Body Cl.							Inspect	ion Date		08-Aug-2011				
Navigabil. Cl./Y							Data Entry By			Marcia Chave	z			
Legal Land Loc			27 TWP 57 R	GE 15 W4	4M		Data E	ntry Date	•	13-Sep-2011				
Longitude, Lati			03, 53:57:35				Reviewer Name			John O'Brien				
Road Authority			Transportation	(AIT)			Review	Date		15-Aug-2011				
Contract Main.	Area	CMA07					Dept. F	Reviewer	Name					
Clear Roadway	/Skew	10 / 9 de	eg. (RHF)				· ·	Review Da		15-Sep-2011				
AADT/Year		890 / 20	10 (A)				Follow-Up By							
Road Classifica	ation	RCU-20	9-110											
Detour Length	(km)	3												
Bridge Culvert	t Inform	ation												
Number of Culv	/erts		1											
Pipe #	Barrel	rrel Span Rise (or			Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	N 2019 2226				SP		43.3		152X51	3.0	ELLIPSE		
1	D/S	- 1810				SP		10		152X51	2.8	ROUND		
1	D/S - 1970				SSP		3.65			2.8	ROUND			
Special Features BARREL ELBOW														
Special Feature Utility Attachme			-10111 u/s - 43.3	012134			Located		10101	nm. Reducer/ell	JUW/EXT - 5% \	Έ.		
Telephone		d Weet r			Gas		-							
Power		ed West r/w. es OH 25m East of c/l.												
Others	2 wire						Municipal Problem (Y/N) No							
Remarks						TIODICI	11 (171 N)							
Remains				Δr	oproa	ch Roa	d / Emba	ankment						
					Last	Now		ation of		tion				
Horizontal Aligr	nment				7	7	1	in horiz.						
Vertical Alignm					7	7	-							
Roadway Width			10.000											
Embankment					5	5								
Sideslope (:1)		3.0				1							
(Height of Co		12)					1							
Guardrail (Y/N)			Yes											
Approach Roa	ld / Eml	bankmen	t General Rat	ing	5	7								
						Upstre	am End							
Culvert Comp	onent				Last	Now		ation of	Condi	tion				
Direction					W									
End Treatment Others, None)	(Concre	ete, Steel	, STEEL											
Headwall					Х	X								
Collar					X	X								
Collar														
Wingwalls (Shape :)					X	X								

Culvert Component Cutoff Wall		Last	Now	Explanation of Condition
Cutoff Wall			11011	
		X	X	
Bevel End		7	7	
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	Yes			Dam 60m U/S + dam @ end of bevel.
Upstream End General Rating		7	7	Vegetation & dam debris blocking entrance; trees catching drift.
		Drid		Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locati	on Code: MAIN So			· •
	07-Jun-2007		<i>y</i> . 2019	
Darrei Last Accessible Date	07-Jun-2007			Vegetation, drift & dam debris block inlet. Barrel not viewable - unsafe access.
Special Features				
Special Feature			X	-
(Type : BARREL ELBOW)				-
Special Feature				-
(Туре:)				
Roof		5	N	
Measured Rise (mm)	2202			_
Measured At Ring No.	23			_
Sag (mm)	24			_
Percent Sag	1			
Sidewall		3	N	(R20 has 4 cracked rings 22mm steel remaining.
Measured Span (mm)	2060			R23 has 4 cracked rings. 07Jun2007).
Measured At Ring No.	3			_
Deflection (mm)	41			(@ sidewall - not @ longitudinal seams. 07Jun2007).
Percent Deflection	2			
Floor		5	N	
Bulge (mm)	0			
Measured At Ring No.	23			
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	0			
Longitudinal Seams		5	N	
	0			Not cracked at seams.
	0			Cracked at dents caused at installation. 07Jun2007).
Min. Remaining Steel Between Cracks (mm)				1
	No			1
	Yes			1
Coating		4	N	
	Yes		14	
, , , ,	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

		Brie	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı): 2019	, Rise (mm): 2226, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
		^	^	
Baffle		X	X	-
(Туре:)				
Waterway Adequacy		6	6	_
Icing (Y/N)	No			_
Silting (Y/N)	No			-
Drift (Y/N)	Yes			
Barrel General Rating		3	3	GR rated 3 from 07Jun2007.
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S. Span			Rise (mm): 1810, Type: SP)
Barrel Last Accessible Date	07-Jun-2007			Previous explanations, dimensions & ratings seem to apply to u/s portion of barrel; confirm when accessible.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type :)				
Roof		5	N	
Measured Rise (mm)	2202			
Measured At Ring No.	23			
Sag (mm)	24			
Percent Sag	1		_	
Sidewall		3	N	(R20 has 4 cracked rings 22mm steel remaining. R23 has 4 cracked rings. 07Jun2007).
Measured Span (mm)	2060			R23 has 4 cracked rings. 07Jun2007).
Measured At Ring No.	3			_
Deflection (mm)	41			(@ sidewall - not @ longitudinal seams. 07Jun2007).
Percent Deflection	2			
Floor		5	N	
Bulge (mm)	0			-
Measured At Ring No.	23			-
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	0			
Longitudinal Seams		5	N	
Total No. of Cracked Rings	0			(Not cracked at seams.
Total No. of Rings with Two Cracked Seams	0			Cracked at dents caused at installation. 07Jun2007).
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	N	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

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01198 -1 Bridge Culvert

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last		
(Pipe # : 1, Primary Span, Loc	ation Code: D/S, Span	(mm):		Rise (mm): 1810, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)			~	
Waterway Adequacy		6	N	
Icing (Y/N)	No			-
Silting (Y/N)	No			-
Drift (Y/N)	No			-
Barrel Extension General Rat	-	3	N	GR was 3 from 07Jun2007 but comments match details for u/s barrel.
		Brid	dge Cu	lvert Barrel
Culvert Component		Last		
(Pipe # : 1, Primary Span, Loc	ation Code: D/S, Span			Rise (mm): 1970, Type: SSP)
Barrel Last Accessible Date				Design 1970mm
Special Features				
Special Feature				Elbow + reducer. Not accessible due to steepness (08Aug2011).
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	176			(unknown date)
Percent Sag				
Sidewall		N	N	
Measured Span (mm)			_	
Measured At Ring No.				
Deflection (mm)	161			(unknown date)
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			1
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings	1			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

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01198 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: D/S, Span	(mm):	, F	Rise (mm): 1970, Type: SSP)
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		X	X	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	g	4	4	GR carried forward from unknown date.
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	Х	
Bevel End	1	5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	5	5	
	1	s	Structur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		7	7	Vertical cut banks D/S away from pipes.
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			U/S end only.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

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			Maintenance Recommendations	ations				
Inspector Recommendations	Year	Inspector Comments	omments	Department Comments	ents	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION	2012	Remove bea	Remove beaver dam at inlet.					
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTOFF	Ľ							
REPAIR SEAMS								
OTHER ACTION	2012	Remove trees from	es from inlet.					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	() 33.3/33.3		ficiency Rating (Last/Now)	51.4/51.4	Est. Repl. Yr 2023	Maint. Reqd. (Y/N)		No
Special Monitor cracks in R20 & 23. Comments for Next Inspection	& 23.			Department Comments				
Maintenance Reviewed By				Date		Estimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action	DH to determine if culvert life can be	ie if culvert life	can be extended as it willbe expensive to replace. RS	sive to replace. RS				
Previous Inspector's Name	Glen Smith		Previous A	Previous Assistant's Name				
Next Inspection Date C	08-Nov-2014		Previous Ir	Previous Inspection Date	08-Jun-2007			
Inspection Cycle (Default) (months) 3	39							
Comment								

					Mainten	ance Recommen	dations							
Inspector Recom	nspector Recommendations Year Inspector Comments						Department C	Comm	nents		Target Y	′ear	Est. Cost	Cat #
SHOTCRETE RE	PAIRS													
PLACE ADDITIO	NAL RIP RAP													
REMOVE DRIFT	ACCUMULATION		2012	Remove	e beaver dam at inle	et.	To operations	;						
INSTALL CONCE	RETE/STEEL LINING	G												
INSTALL STRUT	S													_
	RETE COLLAR/CUT	OFF												_
REPAIR SEAMS														_
OTHER ACTION							To operations							_
OTHER ACTION														_
OTHER ACTION														
OTHER ACTION	HER ACTION													
Structural Cond (%)	Structural Condition Rating (Last/Now) 33.3/33.3 Sufficiency Rating (Last/Now (%) (%) (%)					ng (Last/Now)	51.4/51.4		Est. Repl. Yr	2023	Mair	t. Re	qd. (Y/N)	No
Special Comments for Next Inspection	Monitor cracks in R	20 & 23	3.				Department Comments	Ten	tatively program	med to be	e replaceo	l in 20	022. AS	
Maintenance Reviewed By Andrew Smikles						Date	22-Aug-2012 Estimated Total 0							
Proposed Long-T	-													
On 3-Year Program (Y/N) Y														
Proposed Action	Proposed Action DH to determine if culvert life can be extended as it willbe extended as					ded as it willbe exp	ensive to replace	ce. R	S					
Previous Inspecto	or's Name	Glen S	Smith			Previous	Assistant's Nar	ne						
Next Inspection E	Date	08-Nov	v-2014			Previous	Inspection Date	Э	08-Jun-2007					
Inspection Cycle	(Default) (months)	39												
Comment														