Bridge Inspection & Maintenance System (Web 2005)

				Bridg	e Culve	ert Insp	ection						
Bridge File Number 13633 -1 Bridge Culvert						Form 1			CUL1				
Year Built	Built 1971					Lot No	••		1				
Bridge or Town Name			Inspector Name			Owen Salava							
Located Over			Inspector Class			BR CLS A							
	WATERO					Assistant Name							
Located On	13:04 C1	18.337				Assistant Class							
Water Body Cl./Year						Inspection Date			25-Jun-2012				
Navigabil. Cl./Year						Data E	ntry By		Marcia Chavez				
Legal Land Location	SW SEC	5 TWP 46 RG	GE 5 W5N	Λ			ntry Date	•	15-Jul-2012				
Longitude, Latitude	-114:42:0	09, 52:56:17					/er Name		John O'Brien				
Road Authority	Alberta T	ransportation	(AIT)			Review	/ Date		05-Jul-2012				
Contract Main. Area	CMA17						Reviewer	Name	Andrew Smikles				
Clear Roadway/Skew	9.1 / 30 c	leg. (RHF)				· · ·	Review Da		19-Jul-2012				
AADT/Year	1,000 / 2	011 (A)				Follow							
Road Classification							op 2)						
Detour Length (km)													
Bridge Culvert Infor	mation												
Number of Culverts													
Pipe # Barre	I S	Span Rise (or Dia.					Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	MAIN - 2700						34.7		152X51		ROUND		
Special Features							-						
Special Features Con	nment												
•													
	Uti	ilities (L	ocated	at)									
Utility Attachments			1		1								
Telephone West r/w.						Gas							
Power 3 wir	res 20 m Ea	ast r/w & 1 wir	e 30m No	orth.		Munici	bal						
Others	ers					Proble	m (Y/N)	No					
Remarks													
				ankment									
						Explanation of Condition							
Horizontal Alignment					5	Curve going south - limited sight distance. No passing SB.							
Vertical Alignment					7								
Roadway Width (m)		9.100											
Embankment				7	7	Well ve	getated -	- stable					
Sideslope (:1)		3.0											
(Height of Cover(m)): 2.3)												
Guardrail (Y/N)		Yes				West s	ide meas	ured.	red.				
Approach Road / En	nbankmen	t General Rat	ing	5	5								
					Unstre	am End							
Culvert Component	Last	Now		ation of	Condi	tion							
Direction				E									
End Treatment (Conc Others, None)	rete, Steel,	STEEL				1							
Headwall				X	X								
Collar				X	X								
Wingwalls				X	X								
(Shape :)													
Cutoff Wall				X	X								

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	Some pitting rust.
Heaving (mm)	100			Sides of bevel being pushed inwards, est 200mm.
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	4	Asphalt around bevel all broken up. Riprap is pushing bevel
(Type:)				upwards, very little rock.
(Avg. Rock Size(mm) :)				Interock.
Scour/Erosion		N	4	Eroding sides & top of embankment @ South end.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid		lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN S		-	, Rise (mm): 2700, Type: SP)
Barrel Last Accessible Date	08-Dec-2000		<u>,, </u>	Viewed from ends, barrel not accessible. 1.7m water to roof - shape looks OK.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	150			(5.7% roof using lost inch roof ong
Percent Sag				(5.7% roof, using last insp roof sag measurment. 97/03/24).
Sidewall		N	N	(Span 2695 at midspan.
Measured Span (mm)				Water staining @ side West all through bolt holes @ 10 & 2 o'clock.
Measured At Ring No.				12/12/05)
Deflection (mm)	0			-
Percent Deflection				-
Floor		N	N	Water.
Bulge (mm)		IN	11	
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0	IN	IN	
	U	NI	NI	(Dettern eide well ecome net econ
Longitudinal Seams	0	N	N	(Bottom side wall seams not seen. Sidewall seams cusping inward at ring #3. Est 75mm with 20mm
Total No. of Cracked Rings	0			gap at ring #5 . Not visible. 12/12/05)
Total No. of Rings with Two Cracked Seams				_
Min. Remaining Steel Between Cracks (mm)				-
Proper Lap (Y/N)	No			-
Longitudinal Stagger (Y/N)	No		_	
Coating	1	N	N	(Corrosion with some pitting at sidewall & bevel. 12/12/05)
Corrosion By Soil (Y/N)	Yes			-
	Yes			
Corrosion By Water (Y/N)	165			

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		Bric	lge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locati	ion Code: MAIN, Spa	ı <mark>n (mm</mark>):	, Rise (mm): 2700, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	Х	
(Туре :)				
Waterway Adequacy		4	4	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	G.R. carried forward since 08Dec2000.
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	Х	
Bevel End		4	4	Some pitting rust. Bevel pushing inward. Est 200mm at NW corner.
5 ()	0			
Invert Above/Below Stream Bed				-
	0		1	-
Scour Protection		5	5	Some 400 to 500mm rock visible at West.
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	5	
Beavers (Y/N)	Yes			
Downstream End General Ratin	g	4	4	
		1		re Usage
Channel (II/S and D/S)		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Culvert) Drift (Y/N)	No			(97/03/24) HWM not visible.
Channel Bottom Degrading/Aggrading				Unknown.
	No			1
(Fish Compensation Measure 1 : I				
(Fish Compensation Measure 2 : I	· · · · · · · · · · · · · · · · · · ·			1
· · · · · · · · · · · · · · · · · · ·		1	1	

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		Maintenance Recommendations	ommendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF	ш						
REPAIR SEAMS							
OTHER ACTION	2012	Dewater and inspect, looks like a lot. since barrel viewed.	since				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	() 44.4/44.4	.4 Sufficiency Rating (Last/Now) (%)	ow) 45.2/45.2	Est. Repl. Yr 2020		Maint. Reqd. (Y/N)	Yes
Special (Monitor cusping of s Comments for It appears this site is Next Inspection Recommend dewater	dewall. 02/16/ constantly unc ing to complet	(Monitor cusping of sidewall. 02/16/08). It appears this site is constantly under high water. Recommend dewatering to complete thorough barrel inspection.	Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	25-Mar-2014		Previous Inspection Date	24-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							

		lations											
Inspector Recom	mendations		Year	Inspecto	or Comments		Department C	Comme	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS													
PLACE ADDITIO	NAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
INSTALL CONCE	RETE/STEEL LININ	G											
INSTALL STRUT	S												
INSTALL CONCRETE COLLAR/CUTOFF		OFF											
REPAIR SEAMS													
OTHER ACTION			2012	Dewater and inspect, looks like a lot. since barrel viewed.			Defer, monitor						
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			44.4/44.	4	Sufficiency Rating (Las (%)	st/Now)	45.2/45.2	E	st. Repl. Yr	2020	Maint. R	eqd. (Y/N)	Yes
Special (Monitor cusping of sidewall. 02/16/08). Comments for Next Inspection Recommend dewatering to complete thorough barrel inspection.						Department Comments Continue to monitor on regular BIM schedule. AS							
Maintenance Reviewed By Andre			v Smikle	s			Date	23-A	ug-2012		Estimated Tot	al 0	
Proposed Long-Term Strategy												1	
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Ower			Owen Salava Previous A					s Assistant's Name					
Next Inspection E	Date	25-Mai	r-2014			Previous	Inspection Date	Э	24-Aug-2010				
	(Default) (months)	21											
Comment	, , , , , , , , , , , , , , , , , , ,												