Bridge Culvert Inspection					
Bridge File Number   79625 -1 Bridge Culvert   Form Type   CULE	CULE				
Year Built 1982 Lot No. 4					
Bridge or Town Name FT MCMURRAY Inspector Name Wade	Wade Nanninga				
	·				
Located On 63:10 L1 39.959 Assistant Name					
Water Body Cl./Year Assistant Class					
	lov-2011				
	esa Lacusta				
Longitude, Latitude -111:19:24, 56:35:38 Data Entry Date 12-De	ec-2011				
Road Authority Alberta Transportation (AIT) Reviewer Name Eric C	Reviewer Name Eric Carcoux				
Contract Main. Area CMA07 Review Date 23-No	lov-2011				
Clear Roadway/Skew 13.4 / -45 deg. (LHF) Dept. Reviewer Name Brent	e Brent Herrick				
AADT/Year 6,900 / 2010 (A) Dept. Review Date 15-Dept.	15-Dec-2011				
Road Classification RAD-412.4-120 Follow-Up By					
Detour Length (km) 1					
Bridge Culvert Information					
Number of Culverts 1					
Pipe # Barrel Span Rise (or Dia.) Type Length Corr.	. Profile PI./Slab Shape Thickness				
1 U/S - 3050 SP 84.74 152X	(51 3.0 ROUND				
1 MAIN 2019 2226 SPE 63.4 152X	(51 3.0 ELLIPSE				
1 D/S - 3050 SP 14.02 152X	(51 3.0 ROUND				
Special Features					
Special Features Comment					
Itilities (Leasted at)					
Utility Attachments Utilities (Located at)					
Telephone East & West r/w. Gas					
Power 2-3 wires OH 30m & 35m East. Municipal					
Others Problem (Y/N) No					
Remarks					
Approach Road / Embankment					
Last Now Explanation of Condition					
Horizontal Alignment 7 7 Entrance @ SW & NE.					
Vertical Alignment 8 8					
Roadway Width (m) 26.800 2 @ 13.4M					
Embankment 7 7					
Sideslope (:1) 6.0					
(Height of Cover(m): 2)					
Guardrail (Y/N) No					
Approach Road / Embankment General Rating 7 7					
Culvert Component Last Now Explanation of Condition					
Direction E					
End Treatment (Concrete, Steel, Others, None)					
Headwall 9 8					
Collar 9 8					
Wingwalls X X					
(Shape:)					

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		9	8	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection	·	8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S. Span			Rise (mm): 3050, Type: SP)
Barrel Last Accessible Date 16-Nov-2011				There are grouted couplers between existing pipe and extensions.
Barror East / tooccolbie Bate	101101 2011			
				Barrel 1/4 full with ice/silt.
Special Features			I	
Special Feature				
(Type:)			1	
Special Feature				
(Type:)				
Roof	I	8	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag	1			Est. sag.
Sidewall	I	8	8	
Measured Span (mm)	3100			
Measured At Ring No.	9			
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	Covered by water and silt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		9	9	
Separation (mm)	0			
Longitudinal Seams		9	9	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				2N
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		9	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

		Brid	dge Cu	Ivert Barrel
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: U/S, Span	(mm):	, I	Rise (mm): 3050, Type: SP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel Extension General Rati</b>	ng	8	8	
		Desi	lara Ora	lund David
Culvert Component			Now	Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Codo: MAIN Sn			
Barrel Last Accessible Date	16-Nov-2011	ari (111111	). 2013	There are grouted couplers between existing pipe and extensions.
Barrer Last Accessible Date	10-NOV-2011			There are grouted couplers between existing pipe and extensions.
Special Features		1		
Special Feature				
(Type:)				
Special Feature				
(Type:)		1		
Roof		5	6	
Measured Rise (mm)	2180			
Measured At Ring No.	8			
Sag (mm)	46			
Percent Sag	2			
Sidewall		5	5	
Measured Span (mm)	2140			
Measured At Ring No.	8			
Deflection (mm)	121			
Percent Deflection	6			
Floor		N	3	
Bulge (mm)	0			Perforations visible above ice-crimping of corrugations at 5 o'clock.
Measured At Ring No.	1,,			
Abrasion (Y/N)	Yes		T -	
Circumferential Seams		7	6	
Separation (mm)	0			
Longitudinal Seams		N	5	
Total No. of Cracked Rings				
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		4	3	Pitting rust in sidewall.
Corrosion By Soil (Y/N)	No			50mm perforation in floor near d/s connecion. R1-R10 ~ perforations in floor.
Corrosion By Water (Y/N)	Yes			

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		Brid	dge Cu	Ivert Barrel
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 2019	, Rise (mm): 2226, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)			_	
Waterway Adequacy		6	6	Increased velocities due to smaller dia.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	4	Decreased due to floor rating.
		_		
				ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	0.7551	W		
End Treatment (Concrete, Steel, Others, None)	SIEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Sides pushed in 200m.
Above/Below (mm)	400			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
,				
Downstream End General Ratio	ng	7	7	
			1	re Usage
01 1 (11/0 1 5/0)		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	1			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

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				Maintenand	e Recommen	dations					
Inspector Recomm	endations	Year Inspector Comments				Department Con	Target Year	Est. Cost	Cat #		
SHOTCRETE REF	PAIRS										
PLACE ADDITION	AL RIP RAP										
REMOVE DRIFT A	CCUMULATION										
INSTALL CONCRE	ETE/STEEL LINING										
INSTALL STRUTS											
INSTALL CONCRE	TE COLLAR/CUTO	OFF									
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condit (%)	ion Rating (Last/N	ow) 55.6/4		Sufficiency Rating (L %)	ast/Now)	62.7/57.3	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	Monitor perforations	S.				Department Comments					
Maintenance Revie	ewed By					Date		E	Estimated Tota	I 0	
Proposed Long-Te	rm Strategy										
On 3-Year Program	n (Y/N)										
Proposed Action											
Previous Inspector	's Name	Wade Nanning	ja		Previous	Assistant's Name					
Next Inspection Da	ate	16-Aug-2013			Previous	Inspection Date	10-Mar-2010				
Inspection Cycle ([	Default) (months)	21									
		†									