Bridge Culvert Inspection												
Bridge File Number 02083 -1 Bridge Culvert					Form Type			CUL1				
Year Built	1982				Lot No.			4				
Bridge or Town Name	STRATH	IMORE					or Name		Jon Davies			
Located Over	1	DER TRIBUTA	RY TO E	BOW R	IVER,		or Class		BR CLS B			
	2.13.19.4	4, WATERCRS	S-ST			Assistant Name						
Located On	1:12 L1 2	25.045;1:12 R1	25.045			Assistant Class						
Water Body Cl./Year						Inspection Date		23-Feb-2012				
Navigabil. Cl./Year						Data Entry By A			Anne Roberts			
Legal Land Location	SW SEC	217 TWP 24 R	GE 24 W	4M		Data E	Data Entry Date 20-Mar-2012					
Longitude, Latitude		21, 51:02:16				Reviewer Name			Garry Roberts			
Road Authority						Review Date 01-Mar-2012						
Contract Main. Area	n. Area CMA30					Dept. Reviewer Name		Tim Davies				
Clear Roadway/Skew	Skew 25 / 14 deg. (RHF)							22-Mar-2012				
AADT/Year	9,870 / 2			-		Follow-Up By						
Road Classification	RAD-412	2.4-120										
Detour Length (km)	1											
Bridge Culvert Inform												
Number of Culverts	1											
Pipe # Barrel	5	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 MAIN	-		1800		SP		64		152X51	3.0	ROUND	
Special Features	5	STORM WATE	R DRAIN	l								
Special Features Com	nment											
Litility Attachments				Uti	lities (L	ocated	at)					
Utility Attachments	TH R/W					Gas						
•		n SOUTH EB LANE (7W)					Municipal					
		optics South and North ROW										
Others Fibre optics South and North ROW Problem (Y/N) No Remarks												
Remarks			Δr	oproad	h Road	l/Fmb	ankment					
					Now		Explanation of Condition					
Horizontal Alignment				7	7	MEDIAN CROSSING 15 m WEST. Intersection SE + W						
Vertical Alignment			7	7	Hills E & W							
		05 000										
Roadway Width (m)		25.000										
Embankment				7	7							
Sideslope (:1)		3.0				2:1 ove	er U/S pipe					
(Height of Cover(m)	: 1.6)											
Guardrail (Y/N)	Yes					GUARDRAIL ON NORTH SIDE ONLY.						
Approach Road / Em	bankmen	t General Rati	ng	7	7							
					Upstre	am End						
Culvert Component				Last	Now	1	ation of C	ondi	tion			
Direction				N								
End Treatment (Conc Others, None)	rete, Steel	, CONCRETE										
Headwall				Х	X							
Collar				7	7	New concrete collar						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

02083 -1 Bridge Culvert

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall			N	PR 7 Ice covered up stream end						
Bevel End			N	PR 6						
Heaving (mm) 200										
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		5	N	PR 5						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 350)										
Scour/Erosion			N	PR 5						
Beavers (Y/N)	No									
Upstream End General Rating		5	5	GR carried forward						
				lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1800, Type: SP)						
Barrel Last Accessible Date	23-Feb-2012									
Special Features										
Special Feature		7	7							
(Type : STORM WATER DRAI	N)									
Special Feature										
(Type :)										
Roof		6	6							
Measured Rise (mm)	1770									
Measured At Ring No.	13			Estimate. Ice covered floor						
Sag (mm)	30									
Percent Sag	2									
Sidewall		6	6							
Measured Span (mm)	1850									
Measured At Ring No.	13									
Deflection (mm)	50									
Percent Deflection	3									
Floor		5	N	(Perforations in rings 8 & 9 west side near median drain on floor						
Bulge (mm)	0			plate) 15 Sept 2008 (New concrete floor from the end of ring 6 to the end of ring 9) 12						
Measured At Ring No.				Àug 2010 PR 5						
Abrasion (Y/N)	No		-	1.03						
Circumferential Seams	1	6	6							
Separation (mm)	10		1							
Longitudinal Seams		6	6	POOR JOINT AT 2:00 LOCATION NORTH SIDE MEDIAN DRAIN-						
Total No. of Cracked Rings	0			gap @ ring 7						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)	0									
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating		5	5	(Severe rusting and perforations on lower plates of rings 8, 9						
Corrosion By Soil (Y/N)	Yes			Numerous Rings easy to dent) 15-Sept-2008 Only superficial corrosion remains visable						
Corrosion By Water (Y/N)	Yes									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

02083 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp			, Rise (mm): 1800, Type: SP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	Х	
(Туре :)			_	
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			-
Drift (Y/N)	No			
	INO	6	6	
Barrel General Rating		6	6	
Culvert Component			ownstr Now	eam End Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	Grown in
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	7	7	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		7	7	HEAVY VEGETATION U/S OF PIPE
Bank Stability		7	7	Field access CSP culvert with 1500 10m D/S
HWM (m below Top of Culvert)				No HWM
Drift (Y/N)	No			1
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			1
(Fish Compensation Measure 1 :	1			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			
Channel General Rating	 ,	7	7	

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Com	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												
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		66.7/66.7	7 Sufficiency Rating (Last/No (%)	w) 6	8.5/68.5	Est. Repl. Yr 2029		Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Garry R	arry Roberts Previous			Assistant's Name							
· · · · · · · · · · · · · · · · · · ·		3-Nov-2013			evious Inspection Date 12-Aug-2010							
Inspection Cycle (Default) (months) 21												
Comment												