

Bridge Culvert Inspection			
Bridge File Number	71347 -1 Bridge Culvert	Form Type	CUL1
Year Built	1951	Lot No.	1
Bridge or Town Name	OHATON	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO DRIEDMEAT CREEK, 5.40.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	13:12 C1 11.009	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	30-Aug-2010
Legal Land Location	NW SEC 7 TWP 46 RGE 18 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:36:56, 52:57:20	Data Entry Date	05-Oct-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA16	Review Date	10-Sep-2010
Clear Roadway/Skew	9.5 /	Dept. Reviewer Name	Chris Black
AADT/Year	3,270 / 2009 (A)	Dept. Review Date	12-Oct-2010
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1900	1500	RPP	20.1	152X51	2.8	PIPE ARCH
Special Features	CONC FLOOR							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection 60m West.
Vertical Alignment	7	7	
Roadway Width (m)	9.500		
Embankment	7	7	North end measured. South is 1.0m
Sideslope (:1)	2.0		
(Height of Cover(m) : 0.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	5	Sparce but well grassed.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1900, Rise (mm): 1500, Type: RPP)				
Barrel Last Accessible Date	30-Aug-2010			
Special Features				
Special Feature		5	5	
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		4	3	50 x 25 mm rust perforation at R7 roof - photo. R1 & R2 also have perforations. 1295 rise roof to concrete floor. Estimate roof 1430mm, 4.7% roof. Roof cusping R4 (photo).
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	70			
Percent Sag				
Sidewall		6	6	
Measured Span (mm)	1960			
Measured At Ring No.	4			
Deflection (mm)	80			
Percent Deflection	3			
Floor		N	N	Concrete Floor
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	A few missing bolts, isolated.
Separation (mm)	0			
Longitudinal Seams		5	3	R4 11o'clock seam cusping (photo).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				1N
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		3	3	Perforation @ roof: R1, R2 & R7 - photo. Soil corrosion at perforation. Scaling rust along waterline & below
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1900, Rise (mm): 1500, Type: RPP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	3	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	600			
Scour Protection		4	4	Scour hole south end - photo 6x3x0.5 - stable
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS	2010	Add struts where roof is cussping.					
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	46.7/41.5	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action on perforations with R=3, continue to monitor at each regular inspection.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	Y						
Proposed Action	2003.07.02 Replace with road construction by 2008.						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	30-May-2012		Previous Inspection Date	12-Feb-2009			
Inspection Cycle (Default) (months)	21						
Comment							