

Bridge Culvert Inspection			
Bridge File Number	74737 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	4
Bridge or Town Name	BRETON	Inspector Name	Wade Nanninga
Located Over	TRIBUTARY TO POPLAR CREEK, 6.132.10, WATERCRS-ST	Inspector Class	BR CLS B
Located On	616:02 C1 28.146	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	14-Feb-2011
Legal Land Location	SE SEC 3 TWP 48 RGE 4 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:29:31, 53:06:18	Data Entry Date	22-Feb-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA11	Review Date	22-Feb-2011
Clear Roadway/Skew	8.8 / -20 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	860 / 2009 (A)	Dept. Review Date	02-Mar-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	13		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1600	MP	31.7	68X13	2.8	ROUND
Special Features								
Special Features Comment	BF tag on N crown.							

Utilities (Located at)

Utility Attachments			
Telephone	South ditch.	Gas	
Power	4 lines 10 m north c/l. 3 lines cross 40 m West.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection 20m west & entrance to residence.
Vertical Alignment	8	8	
Roadway Width (m)	8.800		
Embankment	7	7	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 2.2)			
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 (Shape :)	X	X	
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	Bevel projects from fill 300mm.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Barrel Last Accessible Date	14-Feb-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	6	(Rise 1570 @ c/l, 2%. 03/Sept/2004) Hole in roof approx 12m from U/S.
Measured Rise (mm)	1514			
Measured At Ring No.				est
Sag (mm)	90			
Percent Sag	5			
Sidewall		7	7	cl
Measured Span (mm)	1665			
Measured At Ring No.				
Deflection (mm)	65			
Percent Deflection	4			
Floor		6	N	Covered by water & ice. Minor superficial rust but no pitting.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	6	Superficial rust on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Fish Passage Adequacy		4	4	Hanging outlet resting on ice.
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	(700 mm at outlet. 2001/04/17)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	6	
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		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	1100			
Scour Protection		4	4	Bevel cantilevered 700mm.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	(Scour hole @ end of pipe 1.10 m deep x 1.3 m wide x 8 m long. 03/Sept/2004) Filled with ice.
Beavers (Y/N)		No		
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		Downstream only.
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		6	6	

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							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	64.4/58.4	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	(Assessment underway as part of paving project.17-Apr-2001		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	Jacob Oresile		Previous Assistant's Name				
Next Inspection Date	14-May-2014		Previous Inspection Date	21-Nov-2007			
Inspection Cycle (Default) (months)	39						
Comment							