

Bridge Culvert Inspection			
Bridge File Number	07919 -1 Bridge Culvert	Form Type	CUL1
Year Built	1972	Lot No.	2
Bridge or Town Name	ISLAND LAKE	Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO ISLAND CREEK, 8.11.74.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	2:42 C1 26.846	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	29-Mar-2013
Legal Land Location	SW SEC 35 TWP 67 RGE 24 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:33:37, 54:50:17	Data Entry Date	16-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10	Review Date	03-Apr-2013
Clear Roadway/Skew	10.1 / -15 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,510 / 2012 (A)	Dept. Review Date	23-Apr-2013
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	50		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1500	SP	57.3	152X51	3.0	ROUND
Special Features	BARREL ELBOW							
Special Features Comment								

Utilities (Located at)

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

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	On a curve, limited sight distance, no passing.
Vertical Alignment		7	7	
Roadway Width (m)	10.100			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
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		6	N	Minor tear and beaver cage U/S. Snow/ice covered.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		5	N	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	N	
Beavers (Y/N)	Yes			Beaver cage and beaver debris.
Upstream End General Rating		5	5	GR carried fwd from Jun 2011
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):				Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	03-Mar-1999			Unable to see much. Beaver stopper installed @ u/s end and grating at d/s end.
Special Features				
Special Feature		N	N	
(Type : BARREL ELBOW)				
Special Feature				
(Type :)				
Roof		N	N	(Mid 1440, 98 inspection) Partially frozen ice U/S & D/S, could not view from ends. (Est roof sag. 29/Mar/2006)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	15			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	11			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	(Water leaching through on some circumferential seams. All seams not visible due to silt and water. 00/11/24)
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
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		N	N	(Superficial rust in lower 1/2. 00/11/24)
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: SP)					
Ponding (Y/N)	No				
Fish Passage Adequacy		5	5		
Baffle		X	X		
(Type :)					
Waterway Adequacy		5	N	U/S.	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	Yes				
Barrel General Rating		N	N	(G.R. was "7" from 29/Mar/2006)	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		E			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		6	N	Buried in ice.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	200				
Scour Protection		6	N	Snow covered.	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		6	N		
Beavers (Y/N)	No			Beaver cage.	
Downstream End General Rating		6	6	GR carried fwd from Jun, 2011.	
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		5	5	Bends sharply U/S & D/S of the culvert.	
Bank Stability		5	5		
HWM (m below Top of Culvert)				HWM not visible.	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading				STABLE - Jun, 2011	
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		5	5		

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	2013	Remove beaver stop on d/s end to get access to inspect pipe condition.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	52.0/65.7	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next 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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	29-Dec-2014		Previous Inspection Date	07-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							