

Bridge Culvert Inspection			
Bridge File Number	70843 -1 Bridge Culvert	Form Type	CUL1
Year Built	1957	Lot No.	3
Bridge or Town Name	LAMONT	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO LAMONT CREEK, 6.62.4.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	15:08 C1 7.565	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Jan-2012
Legal Land Location	NE SEC 19 TWP 55 RGE 19 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:48:51, 53:46:05	Data Entry Date	31-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Jason Saly
Contract Main. Area	CMA14	Review Date	28-Jan-2012
Clear Roadway/Skew	13.7 / 0 deg.	Dept. Reviewer Name	Andrew Smikles
AADT/Year	3,050 / 2010 (A)	Dept. Review Date	02-Feb-2012
Road Classification	RAU-213.4-120	Follow-Up By	
Detour Length (km)	2		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1524	MP	32.3	68X13	3.5	ROUND
Special Features	CONC FLOOR							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Plowed in North ditch.	Gas	
Power		Municipal	
Others	Fibre optics plowed in South ditch.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Field access 100m SW.
Vertical Alignment		8	8	
Roadway Width (m)	13.700			Wide transverse cracks over pipe, sealed.
Embankment		4	4	3:1 over pipe, 5:1 outside envelope. Hole in sideslope 2.2m from shoulder, typical both sides.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.4)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		8	8	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	Concrete floor installed, corrosion in sidewall.
Heaving (mm)	65			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection		5	5	Well grassed. Small amount of riprap.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
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): , Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date	09-Jan-2012			
Special Features				
Special Feature		7	7	
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		5	5	Rise from concrete floor @ South end 1333mm. Mid pt 1325mm. North end 1330mm.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	85			Estimate.
Percent Sag	5			
Sidewall		5	5	Medium corrosion lower 1/2.
Measured Span (mm)	1604			Span measured @ South end = 1550, 26mm. North end = 1587, 63mm.
Measured At Ring No.				At mid pt.
Deflection (mm)	80			5.2%
Percent Deflection	5			
Floor		N	N	Concrete floor installed over floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		5	5	(Infiltration @ seams causing hole in embankment above, 2.2m from road shoulder, typical both sides. 05/June/2007) No infiltration was observed.
Separation (mm)	25			
Longitudinal Seams		6	6	Riveted seams.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Rust scaling on lower half, pitting.
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): , Rise (mm): 1524, Type: MP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream 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	
Bevel End		4	4	Medium corrosion on sidewall. Minor damage to NE bevel from grass cutting.
Heaving (mm)	65			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		5	5	Heavily grassed around stable scour. Small amount of rock riprap.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.9			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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	2012	(Seal circumferential seam with expanding foam. 05/June/2007)					
OTHER ACTION	2012	Fill void in embankment both sides, 1m3 pitrun.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	57.6/57.6	Est. Repl. Yr	2020	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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	09-Oct-2013		Previous Inspection Date	02-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							