

Bridge Culvert Inspection				
Bridge File Number	71386 -1 Bridge Culvert		Form Type	CUL1
Year Built	1959		Lot No.	2
Bridge or Town Name	EVANSBURG		Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO LOBSTICK RIVER, 8.11.84.51.4, WATERCRS-ST		Inspector Class	BR CLS B
Located On	16A:08 C1 4.532		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Aug-2012
Legal Land Location	SW SEC 26 TWP 53 RGE 8 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:04:55, 53:35:60		Data Entry Date	10-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA12		Review Date	30-Aug-2012
Clear Roadway/Skew	7.4 / 45 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	1,050 / 2011 (A)		Dept. Review Date	18-Sep-2012
Road Classification	RAU-208-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2027	2240	SPE	59.1	152X51	3.5	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	South r/w.		Gas
Power	3 wires North r/w.		Municipal
Others			Problem (Y/N) No
Remarks	File tag U/S.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Entrances both directions. In sag curve with no passing. Road posted at 80km/hr.
Vertical Alignment		6	6	
Roadway Width (m)	7.400			
Embankment		5	6	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 3.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

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		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		4	4	Loss of fill along bevel.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	500mm erosion along East bevel.
Beavers (Y/N)	Yes			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2027, Rise (mm): 2240, Type: SPE)				
Barrel Last Accessible Date	27-Aug-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Water leakage through bolts.
Measured Rise (mm)	2210			
Measured At Ring No.	10			
Sag (mm)	30			
Percent Sag	1			
Sidewall		7	6	Small hole from construction ring 15, West. Small hole from construction R14, East.
Measured Span (mm)	2037			
Measured At Ring No.	10			
Deflection (mm)	10			
Percent Deflection	0			
Floor		5	5	Scaling on floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	6	Plates at center of the pipe are nested poorly due to poor torquing of bolts.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N stagger.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Scaling rust on floor. Corrosion at upper seams/bolts.
Corrosion By Soil (Y/N)	Yes			
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): 2027, Rise (mm): 2240, Type: SPE)				
Fish Passage Adequacy		4	4	Invert above S/B.
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
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		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			1.0m drop in S/B elevation 10m D/S.
Above/Below (mm)	1000			
Scour Protection		7	4	Riprap has been washed d/s.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	4	Scour at outlet and d/s.
Beavers (Y/N)	No			
Downstream End General Rating		6	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	5	Bends U/S and D/S.
Bank Stability		5	5	Vertical banks D/S, not caving.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2013	40m3 CL2 at bends.					
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	Sufficiency Rating (Last/Now) (%)	60.6/58.1	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	27-May-2014		Previous Inspection Date	05-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							