

Bridge Culvert Inspection				
Bridge File Number	70395 -1 Bridge Culvert		Form Type	CUL1
Year Built	1997		Lot No.	4
Bridge or Town Name	MILLARVILLE		Inspector Name	Garry Roberts
Located Over	POTHOLE CREEK, 2.13.27.2.9.4, WATERCRS-ST		Inspector Class	BR CLS A
Located On	22:12 C1 40.434		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	15-Jun-2012
Legal Land Location	NW SEC 25 TWP 21 RGE 3 W5M		Data Entry By	Erin Roberts
Longitude, Latitude	-114:18:07, 50:48:46		Data Entry Date	16-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Joel Wozney
Contract Main. Area	CMA27		Review Date	27-Jun-2012
Clear Roadway/Skew	13.3 /		Dept. Reviewer Name	Tim Davies
AADT/Year	3,450 / 2011 (A)		Dept. Review Date	17-Jul-2012
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	18			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	4840	SP	81	152X51	4.0,4.0,4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West r/w.		Gas	
Power	Line East fence-3 wire-40m from c/l.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	In sag curve
Vertical Alignment		6	6	
Roadway Width (m)	13.300			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5.7)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	7	Narrow cracks
Collar		7	7	Wide cracks
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		8	N	Under water.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		6	6	Settled along both bevels.
(Type : RIP RAP)				Mostly sandstone
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 4840 , Type: SP)				
Barrel Last Accessible Date	01-Oct-2010			Water too deep to enter- viewed from both ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	PR 7
Measured Rise (mm)	4733			
Measured At Ring No.	6			
Sag (mm)	107			
Percent Sag	2			
Sidewall		7	N	(Minor 50mm dia hole in S sidewall @ ring #17. - repaired) PR 7
Measured Span (mm)	4990			
Measured At Ring No.	9			
Deflection (mm)	150			
Percent Deflection	3			
Floor		7	N	PR 7
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	N	PR 8
Separation (mm)	0			
Longitudinal Seams		8	N	PR 8
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			1N stagger
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	N	PR 6
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
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): 4840, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	PR 7
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	7	Hairline cracks.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		8	N	Underwater.
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		6	6	Minor settlement along south bevel
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	Mostly sandstone
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Bends 90 degree @ D/S.
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	70.8/59.1	Est. Repl. Yr	2048	Maint. Req. (Y/N)	No
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	15-Mar-2014		Previous Inspection Date	01-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							