

Bridge Culvert Inspection				
Bridge File Number	78756 -1 Bridge Culvert		Form Type	CUL1
Year Built	1976		Lot No.	4
Bridge or Town Name	MILLARVILLE		Inspector Name	Calvin Roberts
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	762:02 C1 8.440		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Jan-2013
Legal Land Location	NW SEC 27 TWP 21 RGE 4 W5M		Data Entry By	Lauren Korte
Longitude, Latitude	-114:28:46, 50:48:56		Data Entry Date	01-Mar-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA27		Review Date	03-Feb-2013
Clear Roadway/Skew	8.5 /		Dept. Reviewer Name	Tim Davies
AADT/Year	1,140 / 2011 (A)		Dept. Review Date	04-Mar-2013
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	15			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1828	MP	18.5	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)			No									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks		Not required.										

Utilities (Located at)				
Utility Attachments				
Telephone	North ditch.		Gas	Crossing 100m East.
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	On Curve-limited sight distance, superelevation.
Vertical Alignment		6	6	
Roadway Width (m)	8.500			
Embankment		7	6	
Sideslope (___:1)	1.5			
(Height of Cover(m) : 1.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				North.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Wingwalls (Shape :)		X	X		
Cutoff Wall		X	X		
Bevel End		X	X		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	300				
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		6	N	Snow covered.	
Scour/Erosion		6	N		
Beavers (Y/N)	No				
Upstream End General Rating		6	N	P.R 6.	
Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1828, Type: MP)					
Barrel Last Accessible Date	29-Jan-2013			(Handles ditch drainage) Oct 1/09.	
Special Features					
Special Feature (Type :)					
Special Feature (Type :)					
Roof		5	5	Estimate.	
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)	112				
Percent Sag	6				
Sidewall		5	5	400mm long inst dent in upper sidewall @ midspan.	
Measured Span (mm)	1940				
Measured At Ring No.	2				
Deflection (mm)	112				
Percent Deflection	6				
Floor		N	N	400 mm dirt and rocks.	
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)	No				
Circumferential Seams		6	6		
Separation (mm)	120				
Longitudinal Seams		X	X		
Total No. of Cracked Rings	0				
Total No. of Rings with Two Cracked Seams	0				
Min. Remaining Steel Between Cracks (mm)	0				
Proper Lap (Y/N)					
Longitudinal Stagger (Y/N)					
Coating		5	5	Light corrosion at floor.	
Corrosion By Soil (Y/N)	No				
Corrosion By Water (Y/N)	Yes				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1828, Type: MP)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Handles minor flow.
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction				South.	
End Treatment (Concrete, Steel, Others, None)	NONE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		X	X		
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	100				
Scour Protection		6	N	Snow covered.	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		6	N		
Beavers (Y/N)	No				
Downstream End General Rating		6	N	P.R 6.	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	(Handles ditch flow from North).
Roadway Surface		5	5	
(Type :)				
Icing (Y/N)	Yes			Minor.
Traffic Safety Features		X	X	
Type	NONE			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		5	5	
Structure In Use (Y/N)	No			
Grade Separation 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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	60.7/58.8	Est. Repl. Yr	2025	Maint. Req'd. (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	29-Apr-2016		Previous Inspection Date	01-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							