

Bridge Culvert Inspection				
Bridge File Number	80422 -1 Bridge Culvert		Form Type	CUL1
Year Built	1983		Lot No.	4
Bridge or Town Name	CARSELAND		Inspector Name	Tom Carey
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	24:02 C1 37.049		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	20-Feb-2013
Legal Land Location	NE SEC 29 TWP 21 RGE 25 W4M		Data Entry By	Anne Roberts
Longitude, Latitude	-113:25:29, 50:49:01		Data Entry Date	19-Mar-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA30		Review Date	03-Mar-2013
Clear Roadway/Skew	13.7 /		Dept. Reviewer Name	Tim Davies
AADT/Year	1,770 / 2011 (A)		Dept. Review Date	25-Mar-2013
Road Classification	RAU-213-130		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2090	2310	MPE	34.7	125X26	3.0	ELLIPSE
Special Features	CONC FLOOR							
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	West ditch					Gas						
Power						Municipal						
Others						Problem (Y/N)		No				
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	South and north curves.
Vertical Alignment		7	7	Rises to south.
Roadway Width (m)	13.700			
Embankment		8	8	
Sideslope (___:1)	5.0			
(Height of Cover(m) : 1.7)				
Guardrail (Y/N)	Yes			
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	

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Wingwalls (Shape :)		X	X		
Cutoff Wall		X	X		
Bevel End		7	7	PROJECTS 300 mm FROM FILL @ SOUTH	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	100				
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		7	7		
Scour/Erosion		7	7		
Beavers (Y/N)	No				
Upstream End General Rating		7	7		
Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2090, Rise (mm): 2310, Type: MPE)					
Barrel Last Accessible Date	20-Feb-2013				
Special Features					
Special Feature (Type : CONC FLOOR)			7		
Special Feature (Type :)					
Roof		6	6	Has been slightly creased, along roof during installation.	
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)	0				
Percent Sag					
Sidewall		7	7	INWARD	
Measured Span (mm)	2055				
Measured At Ring No.	3				
Deflection (mm)	35				
Percent Deflection	1				
Floor		N	N	CONCRETE & DIRT COVERED	
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)					
Circumferential Seams		7	5		
Separation (mm)	40				
Longitudinal Seams		X	X		
Total No. of Cracked Rings					
Total No. of Rings with Two Cracked Seams					
Min. Remaining Steel Between Cracks (mm)					
Proper Lap (Y/N)					
Longitudinal Stagger (Y/N)					
Coating		7	5	Corrosion with minor pitting at crown at soil line.	
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): 2090, Rise (mm): 2310, Type: MPE)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Snow covered
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Roadway Surface		7	7	
(Type :)				
CONCRETE FLOOR WITH 20mm DIRT				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		6	6	Ice at u/s 5 m. Takes some drainage in toe.
Structure In Use (Y/N)	No			Gated at both ends. Fenced off beyond gates and East end.
Grade Separation General Rating		6	6	

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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	76.7/75.8	Est. Repl. Yr	2036	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	20-Nov-2014		Previous Inspection Date	20-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							