

Bridge Culvert Inspection				
Bridge File Number	75709 -1 Bridge Culvert		Form Type	CUL1
Year Built	1963		Lot No.	4
Bridge or Town Name	NORTH STAR		Inspector Name	Russel Vanderschaaf
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	35:06 C1 35.977		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	16-Nov-2011
Legal Land Location	NE SEC 32 TWP 90 RGE 23 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:37:32, 56:51:15		Data Entry Date	13-Dec-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	12-Dec-2011
Clear Roadway/Skew	10.2 /		Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,950 / 2010 (A)		Dept. Review Date	10-Jan-2012
Road Classification	RAU-210-110		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	1727	1981	SPE	21.9	152X51	2.8	ELLIPSE
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												

Utilities (Located at)

Utility Attachments												
Telephone						Gas						
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Limited site distance, built over a curve. No passing SB.
Vertical Alignment		8	7	
Roadway Width (m)	10.200			
Embankment		7	7	
Sideslope (__:1)	4.0			
(Height of Cover(m) :)				
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		X	X		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	500				
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		6	6		
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): 1727, Rise (mm): 1981, Type: SPE)					
Barrel Last Accessible Date	16-Nov-2011				
Special Features					
Special Feature (Type :)					
Special Feature (Type :)					
Roof		6	6	West end crown damaged by mower. Sag est-May 15, 2008 Floor dirt covered.	
Measured Rise (mm)	1960				
Measured At Ring No.					
Sag (mm)	21				
Percent Sag	1				
Sidewall		7	5	Measured at cl-10-Feb-2010	
Measured Span (mm)	1753				
Measured At Ring No.	5				
Deflection (mm)	26				
Percent Deflection	2				
Floor		N	N	Covered by dirt	
Bulge (mm)	0				
Measured At Ring No.					
Abrasion (Y/N)	No				
Circumferential Seams		6	6		
Separation (mm)	0				
Longitudinal Seams		6	5	Not sealed well at 2 and 10 o'clock	
Total No. of Cracked Rings	0				
Total No. of Rings with Two Cracked Seams					
Min. Remaining Steel Between Cracks (mm)					
Proper Lap (Y/N)	No				
Longitudinal Stagger (Y/N)	No				
Coating		6	5	Minor superficial rust just above dirt. Alkaling stains through circu. seam bolts.	
Corrosion By Soil (Y/N)	Yes				
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): 1727, Rise (mm): 1981, Type: SPE)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	Cattle pass
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		6	5	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	8	FENCES HAVE BEEN REMOVED FROM W SIDE-May 5, 2010
Roadway Surface		8	8	
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	NONE			
Lighting		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Barrel Leakage (Y/N)	Yes			(Leakage - 20010509)
Drainage		7	7	
Structure In Use (Y/N)	No			
Grade Separation General Rating		7	7	

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) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	74.9/69.6	Est. Repl. Yr	2020	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	16-Aug-2013		Previous Inspection Date	10-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							