

Bridge Culvert Inspection				
Bridge File Number	75437 -1 Bridge Culvert		Form Type	CUL1
Year Built	1961		Lot No.	2
Bridge or Town Name	NESTOW		Inspector Name	Todd Warshawski
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	2:38 C1 12.912		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Mar-2013
Legal Land Location	SE SEC 6 TWP 61 RGE 24 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:35:04, 54:14:29		Data Entry Date	17-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10		Review Date	03-Apr-2013
Clear Roadway/Skew	11.2 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	3,300 / 2012 (A)		Dept. Review Date	23-Apr-2013
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	30			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	1724	1901	SPE	26.8	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)		Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks	Not required										

**Utilities (Located at)**

Utility Attachments											
Telephone	East R/W					Gas					
Power						Municipal					
Others						Problem (Y/N)	No				
Remarks	BF tag on West side.										

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve south of pipe with limited sight distance. No passing SB.
Vertical Alignment		7	7	
Roadway Width (m)	11.200			
Embankment		7	7	
Sideslope (__:1)	5.0			
(Height of Cover(m) : 0.6)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**Upstream End**

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		7	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		X	X	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	29-Mar-2013			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		6	4	Roof sag est. @ less than 3%. Large holes in roof on each end due to mowers. Concrete floor, could not measure rise.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	15			
Percent Sag				
Sidewall		7	4	Near c/l. 200mm tear in upper sidewall in R4.
Measured Span (mm)	1743			
Measured At Ring No.	6			
Deflection (mm)	19			
Percent Deflection	1			
Floor		N	N	Concrete/dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	5	One bolt pulled through wall, appears to be from installation. ring 8,9 o'clock.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)</b>				
Coating		6	6	White staining, rust at damaged areas minor superficial.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
<b>(Type : )</b>				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>6</b>	<b>4</b>	

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 (Shape : )		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection (Type : <b>NATURAL</b> ) (Avg. Rock Size(mm) : )		X	X	
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		9	X	Dirt covered.
Roadway Surface		7	7	
<b>(Type : )</b>				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	NONE			

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		7	7	
Structure In Use (Y/N)	Yes			Horses
<b>Grade Separation General Rating</b>		<b>7</b>	<b>7</b>	

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	2013	Patch roof/sidewall tears.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>76.0/64.0</b>	Est. Repl. Yr	2030	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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	29-Dec-2014		Previous Inspection Date	28-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							