

Bridge Culvert Inspection				
Bridge File Number	70635 -2 Bridge Culvert		Form Type	CUL1
Year Built	2010		Lot No.	4
Bridge or Town Name	CAYLEY		Inspector Name	Jon Davies
Located Over	TRIBUTARY TO MOSQUITO CREEK, 2.12.12.12.7, WATERCRS-ST		Inspector Class	BR CLS B
Located On	540:02 C1 26.991		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	09-Mar-2013
Legal Land Location	SE SEC 3 TWP 18 RGE 29 W4M		Data Entry By	Lauren Korte
Longitude, Latitude	-113:54:17, 50:29:05		Data Entry Date	01-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA27		Review Date	17-Mar-2013
Clear Roadway/Skew	13 / 33 deg. (RHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	220 / 2011 (A)		Dept. Review Date	08-Apr-2013
Road Classification	RAU-213-130		Follow-Up By	
Detour Length (km)	7			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2700	MP	65	125X26	3.5	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	North ROW.			Gas	North Ditch.		
Power	2 wire OH 30m North of C.L			Municipal			
Others				Problem (Y/N)	No		
Remarks							

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersection 600mm East.
Vertical Alignment		6	6	
Roadway Width (m)	13.000			
Embankment		8	8	
Sideslope ( __:1)	4.0			
(Height of Cover(m) : 3.9)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	9	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>9</b>	<b>9</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>2700</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	09-Mar-2013			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		9	9	
Measured Rise (mm)	2754			Estimate.
Measured At Ring No.	2			
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	9	Inward.
Measured Span (mm)	2680			
Measured At Ring No.	2			
Deflection (mm)	20			
Percent Deflection	2			
Floor		9	N	P.R 9. Ice up to 900mm.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
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		8	8	1.5m strip of galvanizing peeled off (Ring#2) repaired with several coats of zinc rich paint.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
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): 2700, Type: MP)				
Fish Passage Adequacy		9	9	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>9</b>	<b>9</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	260			
Scour Protection		9	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>9</b>	<b>9</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		9	9	
Bank Stability		9	9	
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)				
<b>Channel General Rating</b>		<b>9</b>	<b>9</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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>100.0/100.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>100.0/100.0</b>	Est. Repl. Yr	2060	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	Cameron Baron		Previous Assistant's Name	Diego Alvarez			
Next Inspection Date	09-Jun-2016		Previous Inspection Date	26-Mar-2010			
Inspection Cycle (Default) (months)	39						
Comment							