

Bridge Culvert Inspection				
Bridge File Number	09902 -2 Bridge Culvert		Form Type	CUL1
Year Built	2005		Lot No.	4
Bridge or Town Name	GIROUXVILLE		Inspector Name	Brian Pientsch
Located Over	HUNTING CREEK, 8.10.58.3, WATERCRS-ST		Inspector Class	BR CLS A
Located On	744:04 C1 5.137		Assistant Name	Lisbeth Medina
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	02-Feb-2011
Legal Land Location	SW SEC 22 TWP 78 RGE 22 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:20:18, 55:46:10		Data Entry Date	02-Mar-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03		Review Date	22-Feb-2011
Clear Roadway/Skew	10.5 / 17 deg. (RHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	360 / 2010 (A)		Dept. Review Date	14-Nov-2011
Road Classification	RAU-209-110		Follow-Up By	
Detour Length (km)	26			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	5790	4100	RPA	26.21	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	Buried cable along West ditch.		Gas	
Power	2 wire o/h-18m along East ditch		Municipal	
Others			Problem (Y/N)	No
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm access 30m south on east side.
Vertical Alignment		9	9	
Roadway Width (m)	9.000			
Embankment		9	9	
Sideslope ( :1)	4.0			
(Height of Cover(m) : <b>0.8</b> )				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	only 5% visible
Wingwalls		8	8	
(Shape : )				
Cutoff Wall		8	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5790, Rise (mm): 4100, Type: RPA)				
Barrel Last Accessible Date	02-Feb-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		9	9	(4.3m from d/s end of barrel.-2005/10/15) Measurements not taken due to ice on floor.
Measured Rise (mm)	4044			
Measured At Ring No.				
Sag (mm)	6			
Percent Sag	0			
Sidewall		9	9	Inward deflection
Measured Span (mm)	5734			
Measured At Ring No.	3			
Deflection (mm)	56			
Percent Deflection				
Floor		N	N	Under ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	8	
Separation (mm)	0			
Longitudinal Seams		N	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5790, Rise (mm): 4100, Type: RPA)</b>				
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>8</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	
Wingwalls		8	8	
(Shape : )				
Cutoff Wall		8	N	
Bevel End		8	8	Rated based on 50% visibility
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	630			
Scour Protection		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>8</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>100.0/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>97.0/91.0</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	Eric Caroux		Previous Assistant's Name				
Next Inspection Date	02-May-2014		Previous Inspection Date	23-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							