

Bridge Culvert Inspection				
Bridge File Number	86197 -1 Bridge Culvert		Form Type	CULM
Year Built	1978		Lot No.	4
Bridge or Town Name	Desilets flood control		Inspector Name	Brian Pientsch
Located Over	WATERCOURSE, WATERCRS-NI		Inspector Class	BR CLS A
Located On	2:58 C1 4.870		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	15-Dec-2012
Legal Land Location	SW SEC 24 TWP 78 RGE 21 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:07:53, 55:46:01		Data Entry Date	12-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA03		Review Date	09-Jan-2013
Clear Roadway/Skew	12.7 /		Dept. Reviewer Name	David Morrison
AADT/Year	2,150 / 2011 (A)		Dept. Review Date	21-Mar-2013
Road Classification	RAU-213.4-110		Follow-Up By	
Detour Length (km)				

**Bridge Culvert Information**

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1400	MP	28			ROUND
2	MAIN	-	1400	MP	28			ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	Buried East ditch.	Gas	
Power	O/H 5 line - 40m West CL	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Residential approach 80m SW.
Vertical Alignment		9	9	
Roadway Width (m)	12.700			
Embankment		7	7	
Sideslope ( __:1)	4.0			
(Height of Cover(m) : 1)				
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
(Pipe # : 1, Span Type: )				
Direction		E		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: )				
Cutoff Wall		X	X	
Bevel End		7	N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	General rating carried forward 25-Aug-2011.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	15-Dec-2012			South pipe 1300mm ice to crown.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Superficial rust spots.
Measured Rise (mm)	1390			Estimated due to ice on floor.
Measured At Ring No.	4			
Sag (mm)	10			
Percent Sag	1			
Sidewall		7	7	Superficial rust spots.
Measured Span (mm)	1366			@ CL
Measured At Ring No.				Deflection inward.
Deflection (mm)	34			
Percent Deflection				
Floor		5	5	Scaling rust.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)				
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		5	5	Superficial rust spots on sidewall and roof, scaling rust on floor.
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): , Rise (mm): 1400, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Drop structure in channel.
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	Some riprap washed in u/s end barrel.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	15-Dec-2012			North pipe
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Superficial rust spots. @ CL Construction tear 4m from u/s end at 12:00 - 80mmx80mm.
Measured Rise (mm)	1360			
Measured At Ring No.				
Sag (mm)	40			
Percent Sag	3			
Sidewall		7	7	Superficial rust spots. @ CL Deflection inward.
Measured Span (mm)	1374			
Measured At Ring No.				
Deflection (mm)	26			
Percent Deflection				
Floor		5	5	Scaling rust.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)				
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		4	4	Superficial rust spots on sidewall and roof, scaling rust on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Drop structures in channel.
Baffle		X	X	
(Type : )				
Waterway Adequacy		4	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: )				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		7	N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			Snow covered.
Above/Below (mm)	500			
Scour Protection		7	N	Snow covered.
(Type : <b>GABION</b> )				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	General Rating carried fowd. 25-Aug-11
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)				not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel General Rating</b>		8	8	

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>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.5/69.0</b>	Est. Repl. Yr	2028	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	Clem Guenette			
Next Inspection Date	15-Sep-2014		Previous Inspection Date	25-Aug-2011			
Inspection Cycle (Default) (months)	21						
Comment							