

Bridge Culvert Inspection				
Bridge File Number	81172 -1 Bridge Culvert		Form Type	CUL1
Year Built	1988		Lot No.	4
Bridge or Town Name	WEBERVILLE		Inspector Name	Brian Pientsch
Located Over	STRONG CREEK, 8.10.59, WATERCRS-ST		Inspector Class	BR CLS A
Located On	986:01 C1 10.860		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	22-Mar-2013
Legal Land Location	SE SEC 13 TWP 85 RGE 23 W5M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-117:29:19, 56:22:02		Data Entry Date	08-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	08-Apr-2013
Clear Roadway/Skew	9.8 /		Dept. Reviewer Name	
AADT/Year	900 / 2012 (A)		Dept. Review Date	
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	29			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1600	MP	33	68X13	2.8	ROUND
Special Features								
Special Features Comment								

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		7	7	
Vertical Alignment		8	8	No passing westbound. Curve to the W.
Roadway Width (m)	9.800			
Embankment		7	7	
Sideslope (___:1)	4.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

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		7	N	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		8	N	Snow covered
Beavers (Y/N)	Yes			(Dam on inlet. photo 01 Apr 2011)
Upstream End General Rating		7	7	GR carried forward
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1600 , Type: MP)				
Barrel Last Accessible Date	22-Mar-2013			1146mm ice to crown
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	(@CL-08-Oct-2009)
Measured Rise (mm)	1570			Measurements not taken due to ice on floor.
Measured At Ring No.				
Sag (mm)	30			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	1615			
Measured At Ring No.				
Deflection (mm)	15			
Percent Deflection	1			
Floor		N	N	Under ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	70			
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	(Deep pitting rust on lower 1/3. 01 Apr 2011) - scaling rust
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): 1600, Type: MP)				
Fish Passage Adequacy		4	4	(Outlet above s.b-08-Oct-2009) Snow covered
Baffle (Type :)		X	X	
Waterway Adequacy		7	7	(1.0m high beaverdam u/s of inlet. - 01 Apr 2011)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		6	6	
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 (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		N	N	(Bevel pushed in on E. side. 150 mm x 400 mm.-08-Oct-2009) Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	207			
Scour Protection		N	N	(Scour hole 3 x 5 x 0.5m-08-Oct-2009) snow covered.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)		No		
Downstream End General Rating		4	4	GR carried fwd.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)	1.0			(08-Oct-2009)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Couldn't tell due to snow cover. Beaverlodge 75m d/s of culvert and 20m u/s.
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	60.0/60.0	Est. Repl. Yr	2032	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	22-Jun-2016		Previous Inspection Date	16-May-2011			
Inspection Cycle (Default) (months)	39						
Comment							