

Bridge Culvert Inspection			
Bridge File Number	08694 -1 Bridge Culvert	Form Type	CULM
Year Built	1963	Lot No.	4
Bridge or Town Name	YOUNGSTOWN	Inspector Name	Jason Saly
Located Over	SOUNDING CREEK, 4.4, WATERCRS-ST	Inspector Class	BR CLS A
Located On	884:12 C1 8.433	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	23-Nov-2010
Legal Land Location	SW SEC 20 TWP 30 RGE 8 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-111:06:24, 51:34:46	Data Entry Date	07-Jan-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA22	Review Date	11-Dec-2010
Clear Roadway/Skew	10 / -4 deg. (LHF)	Dept. Reviewer Name	Chris Black
AADT/Year	200 / 2009 (A)	Dept. Review Date	11-Jan-2011
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	10		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3200	SP	61	125X26	3.5	ROUND
2	MAIN	-	3200	SP	61	125X26	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w.	Gas	
Power	150m E of centerline.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field entrance to North. In bottom of sag, crest curve in both directions with limited sight distance
Vertical Alignment		6	6	
Roadway Width (m)	10.000			
Embankment		7	N	
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 7)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		W		North pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall		7	N	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3200, Type: SP)				
Barrel Last Accessible Date	23-Nov-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	7	Rise could not be measured due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag	2			
Sidewall		9	7	Span measured at R1=3140 - 60mm=1.9%; R5=3180 - 20mm; R9=3142 - 58mm
Measured Span (mm)	3140			
Measured At Ring No.	1			
Deflection (mm)	60			
Percent Deflection	2			
Floor		9	N	Ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	8	
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
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	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3200, Type: SP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	7	
Collar		X	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	N	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		W		South Pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	7	
Collar		7	7	Concrete collar. Honeycombing at NW corner @ constr joint
Wingwalls		7	X	
(Shape :)				
Cutoff Wall		9	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		9	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Upstream End General Rating		9	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3200, Type: SP)				
Barrel Last Accessible Date	23-Nov-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Bulge in roof from construction operations approx. in ring 8 at D/S end - 2 o'clock position. Could not measure rise due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				Est.
Percent Sag	3			
Sidewall		9	7	Span measured at R1=3073 - 127mm; R5=3072 - 128mm=4%; R9=3147 - 53mm.
Measured Span (mm)	3073			
Measured At Ring No.	5			
Deflection (mm)	120			
Percent Deflection	4			
Floor		8	N	Ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	8	
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
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	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3200, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	7	
Collar		X	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	N	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		9	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	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							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	82.4/81.1	Est. Repl. Yr	2056	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	23-Feb-2014		Previous Inspection Date	29-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							