

Bridge Culvert Inspection			
Bridge File Number	73232 -2 Bridge Culvert	Form Type	CULM
Year Built	2011	Lot No.	4
Bridge or Town Name	KEOMA	Inspector Name	Jon Davies
Located Over	3RD ORDER TRIBUTARY TO SERVICEBERRY CREEK, 3.29.9.13.1.1, WATERCRS-ST	Inspector Class	BR CLS B
		Assistant Name	
Located On	9:02 C1 7.259	Assistant Class	
Water Body Cl./Year		Inspection Date	22-Nov-2011
Navigabil. Cl./Year		Data Entry By	Anne Roberts
Legal Land Location	SW SEC 2 TWP 25 RGE 27 W4M	Data Entry Date	20-Dec-2011
Longitude, Latitude	-113:40:46, 51:06:11	Reviewer Name	Garry Roberts
Road Authority	Alberta Transportation (AIT)	Review Date	06-Dec-2011
Contract Main. Area	CMA30	Dept. Reviewer Name	Tim Davies
Clear Roadway/Skew	8 / 18 deg. (RHF)	Dept. Review Date	10-Jan-2012
AADT/Year	2,400 / 2010 (A)	Follow-Up By	
Road Classification	RAU-212.0-110		
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	2700	MP	55	125X26	2.8	ROUND
2	MAIN	-	2700	MP	55	125X26	2.8	ROUND
Special Features								
Special Features Comment		Floor was ice covered. Used the average of span measurements to determine design diameter.						

Utilities (Located at)

Utility Attachments			
Telephone	West ROW	Gas	
Power	East ROW	Municipal	
Others	Fibre optic cable East ROW	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		7	
Vertical Alignment		8	
Roadway Width (m)	14.000		
Embankment		8	3:1 at side slope at West. Canal access road over West end of pipes.
Sideslope (_:1)	4.0		
(Height of Cover(m) : 2.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			
Direction	W		North pipe, West end, takes most flow.
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall		X	
Collar		X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			9	
Beavers (Y/N)	No			
Upstream End General Rating			9	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)				
Barrel Last Accessible Date	22-Nov-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			9	
Measured Rise (mm)	2625			Estimate
Measured At Ring No.				
Sag (mm)	25			
Percent Sag	1			
Sidewall			9	
Measured Span (mm)	2675			
Measured At Ring No.	4			
Deflection (mm)	25			
Percent Deflection	1			
Floor			N	Ice and gravel covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			8	
Separation (mm)	55			
Longitudinal Seams			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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)				
Coating			9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			9	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)				
Barrel Last Accessible Date	22-Nov-2011			South Pipe
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			9	Estimate
Measured Rise (mm)	2650			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall			9	Inward
Measured Span (mm)	2655			
Measured At Ring No.	2			
Deflection (mm)	5			
Percent Deflection	0			
Floor			N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			9	
Separation (mm)	0			
Longitudinal Seams			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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)				
Coating			9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)				
Barrel General Rating			9	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		E		South pipe East end
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Rating			8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	Channel U/S at 30 degrees to inlet
Bank Stability			7	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			6	

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) (%)	/100.0	Sufficiency Rating (Last/Now) (%)	/92.9	Est. Repl. Yr	2055	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			Previous Assistant's Name				
Next Inspection Date	22-Aug-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							