Bridge Culvert Inspection

Bridge File Number	71616 -2 Bridge Culvert	Form Type	CUL1
Year Built	2013	Lot No.	4
Bridge or Town Name	ATHABASCA	Inspector Name	Wade Nanninga
Located Over	2ND ORDER TRIBUTARY TO BAPTISTE CREEK, 8.11.73.2, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	
Located On	2:42 C1 11.822	Assistant Class	
Water Body Cl./Year		Inspection Date	26-Apr-2013
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	SE SEC 30 TWP 66 RGE 23 W4M	Data Entry Date	01-May-2013
Longitude, Latitude	-113:27:49, 54:44:02	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	01-May-2013
Contract Main. Area	CMA10	Dept. Reviewer Name	
Clear Roadway/Skew	9.8 / 15 deg. (RHF)	Dept. Review Date	
AADT/Year	2,050 / 2012 (A)	Follow-Up By	
Road Classification	RAU-210-110		
Detour Length (km)	30		

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2430	SSP	38		12.7	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South r/w	Gas	
Power	3 wires North r/w.	Municipal	
Others	F.O. North r/w	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment			7	Farm approach 40m SW.
Vertical Alignment			8	
Roadway Width (m)	10.100			
Embankment			8	
Sideslope (__:1)	5.0			
(Height of Cover(m) : **1.4**)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating			**7**	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	

Upstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Bevel End			9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection			9	
(Type : **RIP RAP**)				
(Avg. Rock Size(mm) : **450**)				
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): 2430, Type: SSP**)				
Barrel Last Accessible Date	26-Apr-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			9	
Measured Rise (mm)	2430			cl
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			9	
Measured Span (mm)	2430			cl
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			9	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			9	
Separation (mm)				
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)				
Coating			8	weathering steel
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
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): 2430, Type: SSP**)				
Fish Passage Adequacy			9	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			**9**	

Downstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection			9	
(Type : **RIP RAP**)				
(Avg. Rock Size(mm) : **450**)				
Scour/Erosion			9	
Beavers (Y/N)	No			
Downstream End General Rating			**9**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel (U/S and D/S)				
Alignment			4	Sharp 90 deg. bend d/s.
Bank Stability			8	
HWM (m below Top of Culvert)				Not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating			**4**	

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) (%)**	**/92.5**	Est. Repl. Yr	2080	Maint. Reqd. (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	26-Jan-2015	Previous Inspection Date			
Inspection Cycle (Default) (months)	21				
Comment					