

Bridge Culvert Inspection			
Bridge File Number	73356 -1 Bridge Culvert	Form Type	CUL1
Year Built	1994	Lot No.	4
Bridge or Town Name	RIMBEY	Inspector Name	Owen Salava
Located Over	2ND ORDER TRIBUTARY TO ROSE CREEK, 6.147.4.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	53:04 C1 5.594	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Nov-2012
Legal Land Location	NW SEC 10 TWP 43 RGE 6 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-114:47:19, 52:41:29	Data Entry Date	06-Dec-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA18	Review Date	04-Dec-2012
Clear Roadway/Skew	12 / 29 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	410 / 2011 (A)	Dept. Review Date	10-Dec-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	40		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3050	SP	46.9	152X51	3.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	South r/w.		Gas	
Power	3 wire OH 22m North.		Municipal	
Others	No ID tag.		Problem (Y/N)	No
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve 250m East. Good sight distance. Gradual sag curve.
Vertical Alignment		7	7	
Roadway Width (m)	12.000			
Embankment		6	6	Ditch scour @ NE corner, minor. Well vegetated.
Sideslope ( __:1)	4.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	Yes			Minor dents.
Approach Road / Embankment General Rating		7	7	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	1 minor crack @ top East end.
Collar		7	N	Snow covered.
Wingwalls		X	X	
(Shape :    )				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>3050</b> , Type: <b>SP</b> )				
Barrel Last Accessible Date	11-Apr-2011			Open water & thin ice; viewed from ends, shape looks good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		8	N	(Unable to measure due to silt/ice. 11Apr2011).
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	50			(Est. 11Apr2011).
Percent Sag	1			
Sidewall		8	N	
Measured Span (mm)	3096			
Measured At Ring No.	11			
Deflection (mm)	46			(1.5% deflection. 11Apr2011).
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		7	N	(Missing one bolt @ North end 10 o'clock, not a concern. 11Apr2011).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	6	Staining on lower walls.
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): 3050, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR was 7 from 11Apr2011.
Downstream 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	
Bevel End		7	7	Minor inward deflection of bevel sides.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	N	(Rock piled up just before inlet but ok as is. 11Apr2011) - Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
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)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>78.6/67.7</b>	Est. Repl. Yr	2050	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	27-Aug-2014		Previous Inspection Date	11-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							