

Bridge Culvert Inspection			
Bridge File Number	80725 -1 Bridge Culvert	Form Type	CULM
Year Built	1910	Lot No.	4
Bridge or Town Name	BEISEKER	Inspector Name	Jon Davies
Located Over	TRIBUTARY TO ROSEBUD RIVER, 3.33.17, WATERCRS-ST	Inspector Class	BR CLS B
Located On	9:02 C1 43.878	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	26-Nov-2011
Legal Land Location	NE SEC 12 TWP 28 RGE 26 W4M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-113:31:26, 51:23:01	Data Entry Date	09-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA29	Review Date	05-Dec-2011
Clear Roadway/Skew	18.4 / -60 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	2,820 / 2010 (A)	Dept. Review Date	12-Jan-2012
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	2		

Bridge Culvert Information

Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1660	1090	FP	53.4	68X13		ARCH
2	MAIN	1660	1090	FP	53.4	68X13		ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North and South row.	Gas	
Power	Street light East end	Municipal	
Others	Fibre optics cable North and South row.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	7	Major intersectionn- 45m to North
Vertical Alignment	8	8	
Roadway Width (m)	18.300		
Embankment	6	6	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 0.6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	8	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	N		East Pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall		X	X	
Bevel End		7	7	New 3m bevel
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	7	
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): 1660, Rise (mm): 1090, Type: FP)				
Barrel Last Accessible Date	26-Nov-2011			East Pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	4	General roof shape shows sign of sag throughout.
Measured Rise (mm)	1000			
Measured At Ring No.	5			
Sag (mm)	90			
Percent Sag	8			
Sidewall		N	5	Mid span ring 5 span measurement 1640mm.
Measured Span (mm)	1665			
Measured At Ring No.	1			
Deflection (mm)	5			
Percent Deflection	0			
Floor		N	4	Floor bulges throughout. Worst location at east side of ring 4.
Bulge (mm)	100			
Measured At Ring No.	4			Minor abrasion only.
Abrasion (Y/N)	Yes			
Circumferential Seams		N	4	All seams are separated. End of ring 4 has 140mm with minor infiltration.
Separation (mm)	140			
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		5	5	Superficial corrosion throughout at floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1660, Rise (mm): 1090, Type: FP)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		S		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		N		West pipe.
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
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End		5	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	7	
Beavers (Y/N)	No			
Upstream End General Rating		5	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 1660, Rise (mm): 1090, Type: FP)				
Barrel Last Accessible Date	26-Nov-2011			West pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	4	General roof shape has sag throughout.
Measured Rise (mm)	980			
Measured At Ring No.	6			
Sag (mm)	110			
Percent Sag	10			
Sidewall		N	5	
Measured Span (mm)	1670			
Measured At Ring No.	5			
Deflection (mm)	10			
Percent Deflection	1			
Floor		N	4	Floor bulges throughout.
Bulge (mm)	50			
Measured At Ring No.	5			
Abrasion (Y/N)	No			
Circumferential Seams		N	4	End of R7 has vertical separation of 60mm and horizontal of 100mm, with minor infiltration.
Separation (mm)	100			
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		5	5	Superficial corrosion
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 1660, Rise (mm): 1090, Type: FP)				
Ponding (Y/N)	Yes			Last 7m of pipe- water 0.700mm deep - May 26 2010.
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		S		West Pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	5	
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		5	5	

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) (%)	55.6/44.4	Sufficiency Rating (Last/Now) (%)	54.8/51.6	Est. Repl. Yr	2020	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	Rex Davidson		Previous Assistant's Name				
Next Inspection Date	26-Aug-2013		Previous Inspection Date	26-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							