

Bridge Culvert Inspection			
Bridge File Number	80851 -1 Bridge Culvert	Form Type	CUL1
Year Built	1985	Lot No.	4
Bridge or Town Name	BODO	Inspector Name	Jason Saly
Located Over	TRIBUTARY TO EYEHILL CREEK, 4.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	899:08 C1 34.836	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Jun-2011
Legal Land Location	SE SEC 17 TWP 37 RGE 1 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-110:06:18, 52:10:20	Data Entry Date	28-Jun-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA22	Review Date	18-Jun-2011
Clear Roadway/Skew	12 /	Dept. Reviewer Name	Chris Black
AADT/Year	380 / 2010 (A)	Dept. Review Date	30-Jun-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2019	2236	SPE	54.8	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South fence line.	Gas	
Power	South fence line - 3 lines OH.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Major intersection 300-350m E of pipe. No passing EB due to stop sign
Vertical Alignment	8	8	
Roadway Width (m)	9.700		
Embankment	N	7	Estimate 3.5m.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 3.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	Some rock.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	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): 2019, Rise (mm): 2236, Type: SPE)				
Barrel Last Accessible Date	08-Jun-2011			Has been used as a cattlepass. Gate at S bevel.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	7	Rise at R2=2254=28mm Rise at R6=2270=44mm=2.0% Rise at R12=2269=43mm
Measured Rise (mm)	2270			
Measured At Ring No.	6			
Sag (mm)	44			
Percent Sag	2			
Sidewall		N	7	Span at R2=2005=14mm Span at R6=2000=19mm Span at R12=1998=21mm=1%
Measured Span (mm)	1998			
Measured At Ring No.	12			
Deflection (mm)	21			
Percent Deflection	1			
Floor		N	6	Partially covered by concrete.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	
Separation (mm)	0			
Longitudinal Seams		N	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				(50% improperly lapped) 01-Dec-2004
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	6	
Corrosion By Soil (Y/N)	No			Minor.
Corrosion By Water (Y/N)	Yes			
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): 2019, Rise (mm): 2236, Type: SPE)				
Fish Passage Adequacy		X	X	
Baffle		N	X	
(Type :)				
Waterway Adequacy		N	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		Steel grate placed at opening to prevent cattle from entering pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	6	1 bolt missing from bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	4	With some rock.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	Cattel movement have caused erosion to the W side of the pipe. No action required at this time.
Beavers (Y/N)	No			
Downstream End General Rating		N	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		N	7	
Bank Stability		N	6	
HWM (m below Top of Culvert)				
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		6	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							
Structural Condition Rating (Last/Now) (%)	55.6/77.8	Sufficiency Rating (Last/Now) (%)	70.8/74.2	Est. Repl. Yr	2042	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	Structure doubles as a cattlepass therefore rock riprap off outlet would be a hindrance. Plenty of riprap on location if needed.		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	Bryan Wai		Previous Assistant's Name				
Next Inspection Date	08-Sep-2014		Previous Inspection Date	27-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							