

Bridge Culvert Inspection				
Bridge File Number	02379 -1 Bridge Culvert		Form Type	CUL1
Year Built	1960		Lot No.	4
Bridge or Town Name	BOTTREL		Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO DOGPOUND CREEK, 3.89.8.16, WATERCRS-ST		Inspector Class	BR CLS A
Located On	22:16 C1 38.951		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	15-Jun-2012
Legal Land Location	NW SEC 26 TWP 28 RGE 4 W5M		Data Entry By	Erin Roberts
Longitude, Latitude	-114:28:13, 51:25:41		Data Entry Date	16-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Joel Wozney
Contract Main. Area	CMA28		Review Date	27-Jun-2012
Clear Roadway/Skew	9.2 / -10 deg. (LHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	3,640 / 2011 (A)		Dept. Review Date	17-Jul-2012
Road Classification	RAU-209-110		Follow-Up By	
Detour Length (km)	8			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1429	1575	SP	22.6	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West & East fence.		Gas
Power	200m West		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		7	7	
Roadway Width (m)	9.200			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East
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		5	5	South side bent in 200 mm. Missing top two bolts attaching North bevel to barrel.
Heaving (mm)	150			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1429, Rise (mm): 1575, Type: SP)				
Barrel Last Accessible Date	15-Jun-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	1570			
Measured At Ring No.	4			
Sag (mm)	45			
Percent Sag	2			
Sidewall		5	5	
Measured Span (mm)	1455			
Measured At Ring No.	4			
Deflection (mm)	26			
Percent Deflection	1			
Floor		6	6	(Spring entering North side, 3m from East end- not seen this inspection) could not confirm.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	Missing 3 bolts from seam 1 at U/S.
Separation (mm)	0			
Longitudinal Seams		5	5	20mm gap @ seams @ East end ring #1 bolts are loose Missing bolts @ South and North sidewall @ ring #1
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Minor superficial Corrosion
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1429, Rise (mm): 1575, Type: SP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	(Ice within 300mm of roof @ 1998 inspection) Approx 200mm silt in barrel.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		West
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	100			
Scour Protection		5	5	Some scattered rock
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	Minor scour hole 3m from bevel
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	Channel is 90 degree to culvert at D/S.
Bank Stability		5	5	Minor sloughing @ D/S.
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)		No		
Channel Bottom Degrading/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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	50.1/50.1	Est. Repl. Yr	2022	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	15-Mar-2014		Previous Inspection Date	28-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							