

Bridge Culvert Inspection				
Bridge File Number	71319 E-1 Bridge Culvert		Form Type	CUL1
Year Built	1955		Lot No.	4
Bridge or Town Name	CROOKED CREEK		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO CORNWALL CREEK, 8.10.58.17.2.3, WATERCRS-ST		Inspector Class	BR CLS B
Located On	43:06 C1 18.742		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	08-Mar-2011
Legal Land Location	NW SEC 3 TWP 71 RGE 25 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:45:53, 55:07:19		Data Entry Date	22-Mar-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03		Review Date	16-Mar-2011
Clear Roadway/Skew	12.4 /		Dept. Reviewer Name	David Morrison
AADT/Year	4,760 / 2010 (A)		Dept. Review Date	19-Jul-2011
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1724	1902	SPE	30.5	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	crosses hwy to west 60m.
Power	South - 7 line.	Municipal	
Others	South-buried fiber optic cable	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	Crest curve to east.
Vertical Alignment	7	7	
Roadway Width (m)	12.400		
Embankment	8	8	
Sideslope (:1)	4.0		
(Height of Cover(m) : 1.1)			
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	N	(Bevel perforated. 27-Aug-07) Rock on floor. Torn at crown.
Heaving (mm)	100			Snow covered
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 150)		5	N	About 1 m3 rock wshed into barrel. Snow covered
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	GR carried over -05-May-2009
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1902, Type: SPE)				
Barrel Last Accessible Date	11-Mar-2011			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		7	7	Estimated due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	12			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	1736			
Measured At Ring No.	5			
Deflection (mm)	12			
Percent Deflection	1			
Floor		4	N	5mm dia. perforations in floor.-05-May-2009
Bulge (mm)	0			Ice covered
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N stagger.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	N	5mm dia. perforations in floor.-05-May-2009
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): 1724, Rise (mm): 1902, Type: SPE)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		4	4	Bevel ripped where it joins to roof. 150 x 200 mm hole ripped in end.-05-May-2009 Bevel is unsupported for 2.1 m. Water flowing under bevel.-05-May-2009 Snow covered.
Heaving (mm)	100			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	100			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		5	N	Snow covered
Scour/Erosion		5	N	Snow covered
Beavers (Y/N)		No		
Downstream End General Rating		4	4	GR carried fwd.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		8	8	

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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	59.5/69.9	Est. Repl. Yr	2015	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Scheduled for replacement when road upgraded. in 2011/2012		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	08-Dec-2012		Previous Inspection Date	05-May-2009			
Inspection Cycle (Default) (months)	21						
Comment							