

Bridge Culvert Inspection				
Bridge File Number	75740 -1 Bridge Culvert		Form Type	CUL1
Year Built	1963		Lot No.	1
Bridge or Town Name	PATRICIA		Inspector Name	Tom Carey
Located Over	EID - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS A
Located On	876:02 C1 26.693		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	15-Feb-2010
Legal Land Location	SW SEC 30 TWP 19 RGE 12 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-111:39:59, 50:37:57		Data Entry Date	23-Mar-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA23		Review Date	24-Feb-2010
Clear Roadway/Skew	10.5 / 10 deg. (RHF)		Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	200 / 2008 (A)		Dept. Review Date	26-Mar-2010
Road Classification	RLU-209G-90		Follow-Up By	
Detour Length (km)	30			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	2025	2240	SPE	56.6	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment	Hazard Markers							

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power	3 WIRED EAST		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	In sag curve (Minor erosion @ NE) 1999/01/08- snow
Vertical Alignment		5	5	
Roadway Width (m)	10.500			
Embankment		N	N	Snow
Sideslope (_ :1)	3.0			
(Height of Cover (m) : 7.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	snow covered
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		N	N	Snow covered (Minor scour around bevel end)
(Type :)				
(Avg. Rock Size (mm) :)				
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Upstream End General Rating		6	N	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2025, Rise (mm): 2240, Type: SPE)				
Barrel Last Accessible Date	15-Feb-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		3	3	ESTIMATE
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	250			
Percent Sag	11			
Sidewall		3	3	Deflection unchanged & appears stable
Measured Span (mm)	2300			
Measured At Ring No.	2			
Deflection (mm)	275			
Percent Deflection	13			
Floor		N	N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)				
Longitudinal Seams		6	6	
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)	No			
Coating		4	4	FLAKING CORROSION WITH SOME PITTING.
Corrosion By Soil (Y/N)	Yes			
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): 2025, Rise (mm): 2240, Type: SPE)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
Downstream 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	
Bevel End		N	N	(Bent & Rusted - minor)
Heaving (mm)				Snow covered
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	Snow Covered
(Type :)				
(Avg. Rock Size (mm) :)				
Scour/Erosion		N	N	Snow Covered
Beavers (Y/N)	No			
Downstream End General Rating		5	N	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	(SE & NE BANK SLUMPING. STEEP CUT)
Bank Stability		4	3	NE eroded 8mx2m deep. SE, NW, SW- snow covered
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	3	

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	2010	Grrom & fill NE canal slope - 20m3 olay.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	48.9/47.3	Est. Repl. Yr	2020	Maint. Req'd. (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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	15-May-2013		Previous Inspection Date	20-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							