

Bridge Culvert Inspection				
Bridge File Number	73158 -1 Bridge Culvert		Form Type	CUL1
Year Built	1992		Lot No.	4
Bridge or Town Name	TOMAHAWK		Inspector Name	Kris Bosters
Located Over	MISHOW CREEK, 6.135, WATERCRS-ST		Inspector Class	BR CLS A
Located On	624:02 C1 5.583		Assistant Name	Brian Cote
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	25-Oct-2012
Legal Land Location	SE SEC 1 TWP 51 RGE 7 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:53:38, 53:22:01		Data Entry Date	06-Nov-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA11		Review Date	04-Nov-2012
Clear Roadway/Skew	9.8 / 35 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	1,180 / 2011 (A)		Dept. Review Date	13-Nov-2012
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	38			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	4300	SP	73.8	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	south r/w	Gas	
Power	r/w 1 wire	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Restructured S field entrances each way. Bottom of sag curve, no passing EBL. Limited sight distance with crest curve in both directions.
Vertical Alignment		7	7	
Roadway Width (m)	9.800			
Embankment		6	6	Ditch erosion C NE near end of pipe 1x1x15m. Grassed & stable.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 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)	CONCRETE			
Headwall		5	5	Narrow cracks @ approx 300mm.
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		5	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 4300 , Type: SP)				
Barrel Last Accessible Date	20-Jan-2003			2.5m crown to water level.
Special Features				
Special Feature				Viewed from end, shape & condition look good.
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	EST.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			
Percent Sag	23			
Sidewall		8	N	
Measured Span (mm)	4620			
Measured At Ring No.				
Deflection (mm)	82			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	
Corrosion By Soil (Y/N)	No			
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): , Rise (mm): 4300, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	(GR 8 - 30 Mar 2006)
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)		CONCRETE		
Headwall		6	6	Couple narrow cracks.
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	1000			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)		No		
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		5	5	N.W. & NE bank slumping 20m u/s bank erosion visible approx 50m d/s also. does not affect structure.
HWM (m below Top of Culvert)				
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	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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	65.9/69.3	Est. Repl. Yr	2038	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor NE ditch erosion - repair as required. Monitor NE bank sloughing.		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	25-Jan-2016		Previous Inspection Date	08-Jul-2009			
Inspection Cycle (Default) (months)	39						
Comment							