

Bridge Culvert Inspection				
Bridge File Number	75906 S-1 Bridge Culvert		Form Type	CUL1
Year Built	1989		Lot No.	4
Bridge or Town Name	WANDERING RIVER		Inspector Name	Eric Carcoux
Located Over	TRIBUTARY TO HOUSE RIVER, 8.11.47.4, WATERCRS-ST		Inspector Class	BR CLS A
Located On	63:04 C1 43.362		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	13-Jan-2012
Legal Land Location	SW SEC 36 TWP 76 RGE 15 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-112:11:41, 55:37:26		Data Entry Date	17-Jan-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA07		Review Date	16-Jan-2012
Clear Roadway/Skew	13.4 / -15 deg. (LHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	3,800 / 2010 (A)		Dept. Review Date	18-Jan-2012
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	250			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	4610	SP	116.4	152X51	7.0	ROUND
Special Features	FLOOR ABR PLATES							
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West r/w.		Gas	
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	In gradual sag curve with no passing up hills. East sideslope benched approx 6m.
Vertical Alignment		7	7	
Roadway Width (m)	13.400			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 13.9)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		4	4	Cracked.
Collar		4	4	Random transverse cracks, typical.
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		7	7	Ice covered-no evident problems
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		6	6	Snow ocvered - no evident problems
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4610, Type: SP)				
Barrel Last Accessible Date	06-Mar-2010			Barrel 1/4 to 1/2 filled with ice.
Special Features				
Special Feature		N	N	
(Type : FLOOR ABR PLATES)				
Special Feature				
(Type :)				
Roof		5	5	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	250			(5.4%. 01/07/13)
Percent Sag	5			
Sidewall		5	5	
Measured Span (mm)	4844			
Measured At Ring No.	9			
Deflection (mm)	234			
Percent Deflection	5			
Floor		N	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
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				1N stagger
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Superficial rust visible above ice.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4610, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type :)				
Waterway Adequacy		7	7	(Iced to within 1400 mm of crown - photo. 96/02/08)
Icing (Y/N)	No			Appears to be a spring @ d/s end - ice color is light brown.
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	
Collar		5	5	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	(Rebar visible & seperation between shoulder and wall on both sides. 16/Aug/2006)
Bevel End		N	N	Buried in ice .
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1100			
Scour Protection		N	N	(SW corner geotextile fabric visible, no rock left - photo. 16/Aug/2006) Snow covered .
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	GR carried forward from 16-Aug-2006
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Dam u/s
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

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) (%)	57.2/56.6	Est. Repl. Yr	2030	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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	13-Oct-2013		Previous Inspection Date	10-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							