

Bridge Culvert Inspection				
Bridge File Number	79621 S-1 Bridge Culvert		Form Type	CUL1
Year Built	1989		Lot No.	2
Bridge or Town Name	WANDERING RI		Inspector Name	Wade Nanninga
Located Over	2ND ORDER TRIBUTARY TO HOUSE RIVER, 8.11.47.4.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	63:04 C1 37.356		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	02-Feb-2012
Legal Land Location	SW SEC 15 TWP 76 RGE 15 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	::, ::		Data Entry Date	13-Feb-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA07		Review Date	13-Feb-2012
Clear Roadway/Skew	13.3 / -32 deg. (LHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year			Dept. Review Date	14-Feb-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	-	1500	CP	34.3			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	West r/w.			Gas	Crossing Hwy 200 m to south.		
Power				Municipal			
Others				Problem (Y/N)	No		
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Crest vertical curve 800m North.
Vertical Alignment		7	7	
Roadway Width (m)	13.300			
Embankment		6	4	East side eroding around pipe.-photo
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
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		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		5	3	Accident damage-bevel end disconnected.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	3	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1500 , Type: CP)				
Barrel Last Accessible Date	02-Feb-2010			1/3 full with ice.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	3	
Measured Span (mm)	1515			At centerline.
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	Covered by ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	3	First seam from U/S end.
Separation (mm)	200			Separation @ R3/4-100mm/
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: CP)					
Ponding (Y/N)	No				
Fish Passage Adequacy		6	6		
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	4	Damaged barrel at u/s - drift/silt caught at opening.	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	Yes				
Barrel General Rating		7	3		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		W			
End Treatment (Concrete, Steel, Others, None)	CONCRETE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		4	4	Bevel separated from last section of barrel.-150mm.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	300				
Scour Protection		4	4	Loss of fill NW corner of bevel end.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 250)					
Scour/Erosion		4	4	Scoured 5.0 m x 8.0 m long x 0.5 m.	
Beavers (Y/N)	No				
Downstream End General Rating		4	4		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		4	6		
Bank Stability		5	5	Minor slump of bank at NW.	
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)					
Channel General Rating		4	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	2012	Replace pipe @ u/s end - bevel & R1.					
OTHER ACTION	2012	Add fill along pipe @ u/s end.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/33.3	Sufficiency Rating (Last/Now) (%)	62.9/38.1	Est. Repl. Yr	2037	Maint. Req'd. (Y/N)	Yes
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	02-Nov-2016		Previous Inspection Date	10-Mar-2010			
Inspection Cycle (Default) (months)	57						
Comment							