

Bridge Culvert Inspection			
Bridge File Number	70248 -1 Bridge Culvert	Form Type	CUL1
Year Built	1953	Lot No.	2
Bridge or Town Name	MAYERTHORPE	Inspector Name	Arnold Assenheimer
Located Over	TRIBUTARY TO PADDLE RIVER, 8.11.84.30.34, WATERCRS-ST	Inspector Class	BR CLS A
Located On	647:02 C1 5.112	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Jul-2012
Legal Land Location	SW SEC 5 TWP 57 RGE 10 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:27:35, 53:53:25	Data Entry Date	31-Jul-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA12	Review Date	30-Jul-2012
Clear Roadway/Skew	10 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	260 / 2011 (A)	Dept. Review Date	02-Aug-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1524	MP	37.8	68X13		ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South r/w.	Gas	
Power	2 lines North of r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	
Vertical Alignment		7	7	
Roadway Width (m)	10.200			
Embankment		N	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 4.1)				
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)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	Beaver cage has caught debris and raised streambed 600 mm.
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			End of barrel has unravelled along the lock seam and is bent inwards blocking 60% of opening - photo .
Above/Below (mm)	600			
Scour Protection		N	3	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	3	Erosion 1.0m back on both sides of barrel. Scour hole @ inlet 3 x 4m x 0.5, stable.
Beavers (Y/N)	Yes			(U/S. 08/Nov/2005) Snow covered.
Upstream End General Rating		4	3	Embankment steep around culvert but stable.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date	27-Jul-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	3	
Measured Rise (mm)	1340			Approx 2/3 L
Measured At Ring No.				
Sag (mm)	184			
Percent Sag	12			
Sidewall		N	3	Two CMP rings are cracked at 4/5 L.
Measured Span (mm)	1680			Approx 2/3 L
Measured At Ring No.				
Deflection (mm)	156			
Percent Deflection	10			
Floor		N	5	Under ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	150			
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		N	5	Rust stains coming from outer surface at cracks and superficial rust along strip of floor.
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): 1524, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Hampered by blockage @ inlet and heaving ends.
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
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		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	5	Floor bent upwards @ end. Erosion approx 1m under pipe.
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			(Estimated. 08/Nov/2005)
Above/Below (mm)	200			
Scour Protection		N	4	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	Scour hole at outlet approx 2m x 200mm x 4m long.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	Riprap both ends.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS	2012						
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Add bevel end to u/s end.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	38.9/38.2	Est. Repl. Yr	2020	Maint. Req. (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	Jacob Oresile		Previous Assistant's Name				
Next Inspection Date	27-Oct-2015		Previous Inspection Date	28-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							