

Bridge Culvert Inspection			
Bridge File Number	75762 -1 Bridge Culvert	Form Type	CUL1
Year Built	1963	Lot No.	4
Bridge or Town Name	GREEN COURT	Inspector Name	Kris Bosters
Located Over	LITTLE PADDLE RIVER, 8.11.84.30.19, WATERCRS-ST	Inspector Class	BR CLS A
Located On	751:04 C1 13.380	Assistant Name	Brian Cote
Water Body Cl./Year		Assistant Class	BR CLS B
Navigabil. Cl./Year		Inspection Date	18-Apr-2013
Legal Land Location	SW SEC 15 TWP 58 RGE 10 W5M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-115:24:49, 54:00:38	Data Entry Date	23-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA12	Review Date	21-Apr-2013
Clear Roadway/Skew	9.5 / 20 deg. (RHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	400 / 2012 (A)	Dept. Review Date	01-May-2013
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	15		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2014	2226	SPE	63.4	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w.	Gas	
Power	1 wire 20m East of c/l.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	At bottom of hill to the South limiting sight distance, no passing SB.
Vertical Alignment	5	5	
Roadway Width (m)	9.500		
Embankment	4	4	Erosion gully at SW corner, 1.5m deep x 15m long.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 7.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	5	5	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
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		4	N	(Protruding from fill 300mm. Nov 10/2009)
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		4	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		4	N	
Beavers (Y/N)	Yes			Dams have been removed and channelization
Upstream End General Rating		4	4	GR carried forward Nov 10/2009
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2014, Rise (mm): 2226, Type: SPE)				
Barrel Last Accessible Date	10-Nov-2009			Ice to midpoint barrel water flowing Viewed from ends shape looks good
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	
Measured Rise (mm)	2165			Damaged by debris at u/s end
Measured At Ring No.	9			
Sag (mm)	61			2.7%
Percent Sag	3			
Sidewall		7	N	
Measured Span (mm)	2090			
Measured At Ring No.	9			
Deflection (mm)	76			3.8%
Percent Deflection	4			
Floor		6	N	
Bulge (mm)	0			Minor.
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		7	N	
Total No. of Cracked Rings	0			iN
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	N	
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): 2014, Rise (mm): 2226, Type: SPE)				
Fish Passage Adequacy		4	4	(300mm outfall at outlet. Nov 10/2009)
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	Large scour hole D/S shows undersized and bent crown shows unable to handle drift. Ice buildup at d/s end approx 0.3m
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		4	4	GR carried forward from Nov 10/2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		Snow and ice covered
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		4	N	(Bevel unsupported for 1.0m. Superficial rust on floor. Nov 10/2009)
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	500			
Scour Protection		4	N	(10m x 10m basin off outlet. All rock has been washed D/S to form wall. Nov 10/2009)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		4	N	
Beavers (Y/N)		No		
Downstream End General Rating		4	4	GR carried forward from Nov 10/2009
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		5	5	D/S end slumping.5
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		Yes		
(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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	38.9/40.1	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	18-Jul-2016		Previous Inspection Date	10-Nov-2009			
Inspection Cycle (Default) (months)	39						
Comment							