

Bridge Culvert Inspection			
Bridge File Number	74992 -1 Bridge Culvert	Form Type	CULE
Year Built/Lined	1959/2008	Lot No.	4
Bridge or Town Name	PADDLE PRAIR	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO BOYER RIVER, 8.10.23.11, WATERCRS-ST	Inspector Class	BR CLS B
Located On	35:12 C1 36.542	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	15-Nov-2011
Legal Land Location	SW SEC 10 TWP 104 RGE 21 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:23:22, 58:00:42	Data Entry Date	13-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA01	Review Date	12-Dec-2011
Clear Roadway/Skew	10.9 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,130 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	999		

Bridge Culvert Information

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
3	U/S FULL LINER	-	1400	MP	8.7	125X26	2.8	ROUND
3	MAIN FULL LINER	-	1219	SSP	16		12.7	ROUND
3	D/S FULL LINER	-	1400	MP	8.7	125X26	2.8	ROUND
4	U/S	-	2000	MP	8.7	125X26	2.8	ROUND
4	MAIN	-	1829	SSP	16		12.7	ROUND
4	D/S	-	2000	MP	8.7	125X26	2.8	ROUND
5	U/S FULL LINER	-	1400	MP	8.7	125X26	2.8	ROUND
5	MAIN FULL LINER	-	1219	SSP	16		12.7	ROUND
5	D/S FULL LINER	-	1400	MP	8.7	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	5 wire o/h along W. ditch.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	CAMPGROUND ENTRANCE 50M S.
Vertical Alignment		9	8	
Roadway Width (m)	10.900			
Embankment		6	8	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1.4)				

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		9	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Covered with ice/snow.
Above/Below (mm)	400			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		8	7	
Scour/Erosion		8	7	No evident problems through snow.
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: U/S, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	18-Feb-2010			1m of water in pipe
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		9	N	Floor covered with ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		9	N	est @ cl
Measured Span (mm)	1394			
Measured At Ring No.				
Deflection (mm)	6			
Percent Deflection				deflection inward.
Floor		N	N	Covered with ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: U/S, Span (mm): , Rise (mm): 1400, Type: MP)				
Circumferential Seams		X	N	
Separation (mm)				
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)		No		
Longitudinal Stagger (Y/N)				
Coating		8	N	
Corrosion By Soil (Y/N)		No		
Corrosion By Water (Y/N)		No		
Camber POS/ZERO/NEG		ZERO		
Ponding (Y/N)		No		
Fish Passage Adequacy		9	9	
Baffle		N	N	
(Type : WEIR)				
Waterway Adequacy		9	6	
Icing (Y/N)		Yes		
Siltting (Y/N)		No		
Drift (Y/N)		No		
Barrel Extension General Rating		9	N	GR was 9 on 18-Feb-2010
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: SSP)				
Barrel Last Accessible Date		18-Feb-2010		1m of water in pipe
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	Floor covered with ice. (May 16, 2008)
Measured Rise (mm)		1393		
Measured At Ring No.				
Sag (mm)		7		
Percent Sag		1		
Sidewall		8	N	Superficial corrosion lower 1/2.-18-Feb-2010
Measured Span (mm)		1210		
Measured At Ring No.				
Deflection (mm)		9		
Percent Deflection		1		deflection inward.
Floor		N	N	Floor covered with ice.
Bulge (mm)		0		
Measured At Ring No.				
Abrasion (Y/N)		No		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: SSP)				
Circumferential Seams		X	N	
Separation (mm)	0			
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		5	N	Superficial corrosion lower 1/2.-18-Feb-2010
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	9	
Baffle		N	N	
(Type : WEIR)				
Waterway Adequacy		9	6	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	GR was 8 on 18-Feb-2010
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	N	Covered with snow/ice.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	No evident problems.
Beavers (Y/N)	No			
Downstream End General Rating		8	8	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Primary Span)				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		8	8	Small dent on top of bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Covered with ice/snow.
Above/Below (mm)	700			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		8	8	
Scour/Erosion		8	8	No evident problems.
Beavers (Y/N)	No			
Upstream End General Rating		8	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	18-Feb-2010			1 m of water
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		9	N	Floor covered with ice. (May 16, 2008)
Measured Rise (mm)	1829			
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		9	N	est CL
Measured Span (mm)	2002			
Measured At Ring No.				
Deflection (mm)	2			
Percent Deflection				
Floor		N	N	@CL-May 16, 2008
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		X	N	
Separation (mm)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2000, Type: MP)				
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		8	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		9	9	
Baffle		N	N	
(Type : WEIR)				
Waterway Adequacy		9	6	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		9	N	GR was 9 on 18-Feb-2010

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)				
Barrel Last Accessible Date	18-Feb-2010			1m of water
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	(May 16, 2008)
Measured Rise (mm)	1829			
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		7	N	CL
Measured Span (mm)	1825			Superficial corrosion lower 1/2.
Measured At Ring No.				-18-Feb-2010
Deflection (mm)	4			deflection inward.
Percent Deflection				
Floor		N	N	@CL-May 16, 2008
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		X	N	
Separation (mm)				

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 4, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)					
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		5	N	Superficial corrosion lower 1/2.-18-Feb-2010	
Corrosion By Soil (Y/N)	No				
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	Yes				
Fish Passage Adequacy		9	9		
Baffle		N	N		
(Type : WEIR)					
Waterway Adequacy		9	6		
Icing (Y/N)	Yes				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		7	N	GR was 7 on 18-Feb-2010	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 4, Span Type: Primary Span)					
Direction		E			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		9	N		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	700				
Scour Protection		8	8		
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		8	8	No evident problems.	
Beavers (Y/N)	No				
Downstream End General Rating		8	8		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Span Type: Secondary Span)				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection (Type : RIP RAP)		8	8	
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	No evident problems
Beavers (Y/N)	No			
Upstream End General Rating		8	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Secondary Span, Location Code: U/S, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	18-Feb-2010			1m of water
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		9	N	Floor covered with ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		8	N	@ cl-18-Feb-2010
Measured Span (mm)	1403			
Measured At Ring No.				
Deflection (mm)	3			
Percent Deflection				
Floor		N	N	Floor covered with ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	N	
Separation (mm)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Secondary Span, Location Code: U/S, Span (mm): , Rise (mm): 1400, Type: MP)				
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		8	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		8	9	
Baffle		N	N	
(Type : WEIR)				
Waterway Adequacy		8	6	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		8	N	GR was 8 on 18-Feb-2010

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: SSP)				
Barrel Last Accessible Date	18-Feb-2010			1m of water
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	Minor superficial corrosion. (May16, 2008)
Measured Rise (mm)	1400			
Measured At Ring No.				Floor covered with ice.
Sag (mm)				
Percent Sag				
Sidewall		7	N	Minor superficial corrosion.-18-Feb-2010
Measured Span (mm)	1209			
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection	0			deflection inward.
Floor		N	N	Floor covered with ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		X	X	
Separation (mm)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: SSP)				
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		6	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	9	
Baffle		N	N	
(Type : WEIR)				
Waterway Adequacy		8	6	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR was 7 on 18-Feb-2010
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Span Type: Secondary Span)				
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	N	Covered with snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	No evident problems.
Beavers (Y/N)	No			
Downstream End General Rating		9	8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	5	Enters at 75 deg and exits at 75 deg.
Bank Stability		6	7	(Well vegetated. -May 16, 2008)
HWM (m below Top of Culvert)				HWN NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : FISH POND WITH 1M ROCK)				Fish pond at U/S end with class 1m rock. Covered with snow.
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	79.8/59.7	Est. Repl. Yr	2060	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	15-Aug-2013		Previous Inspection Date	18-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							