

Bridge Culvert Inspection				
Bridge File Number	82253 W-2 Bridge Culvert		Form Type	CULM
Year Built	2000		Lot No.	4
Bridge or Town Name	WATERCOURSE CULVERT ON PROVINCIAL HIGHWAY 43 NEAR GRANDE PRA		Inspector Name	Russel Vanderschaaf
			Inspector Class	BR CLS B
Located Over	TRIBUTARY TO BEAR RIVER, 8.10.58.18.2.1, WATERCRS-ST		Assistant Name	
			Assistant Class	
Located On	43:04 L1 13.971		Inspection Date	29-Nov-2012
Water Body Cl./Year			Data Entry By	Theresa Lacusta
Navigabil. Cl./Year			Data Entry Date	10-Feb-2013
Legal Land Location	SE SEC 17 TWP 72 RGE 4 W6M		Reviewer Name	Eric Carcoux
Longitude, Latitude	-118:34:32, 55:13:45		Review Date	17-Dec-2012
Road Authority	Alberta Transportation (AIT)		Dept. Reviewer Name	David Morrison
Contract Main. Area	CMA05		Dept. Review Date	21-Mar-2013
Clear Roadway/Skew	13.4 /		Follow-Up By	
AADT/Year	5,880 / 2011 (A)			
Road Classification	RAD-412.4-120			
Detour Length (km)	1			

Bridge Culvert Information

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1400	MP	34	125X26	3.5	ROUND
2	MAIN	-	1400	MP	34	125X26	3.5	ROUND
3	MAIN	-	1400	MP	34	125X26	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	In gentle sag
Vertical Alignment	7	7	
Roadway Width (m)	13.400		
Embankment	8	8	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 1)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			
Direction	N		West
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		8	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	29-Nov-2012			Ice 1.1 from crown
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	near cl
Measured Rise (mm)	1376			Carried over due to ice.
Measured At Ring No.				
Sag (mm)	24			
Percent Sag	2			
Sidewall		8	8	near cl
Measured Span (mm)	1412			
Measured At Ring No.				
Deflection (mm)	12			
Percent Deflection	1			
Floor		8	8	near cl
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
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)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			0.3m silt at d/s bevel
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	29-Nov-2012			Center pipe
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	
Measured Rise (mm)	1410			near cl Carried over due to ice.
Measured At Ring No.				
Sag (mm)	10			
Percent Sag	1			
Sidewall		8	8	
Measured Span (mm)	1404			near cl
Measured At Ring No.				
Deflection (mm)	4			
Percent Deflection	1			
Floor		8	8	
Bulge (mm)				near cl
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
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)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			0.3m at d/s end
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	29-Nov-2012			East pipe
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	
Measured Rise (mm)	1394			near cl Carried over due to ice.
Measured At Ring No.				
Sag (mm)	6			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	1427			near cl
Measured At Ring No.				
Deflection (mm)	27			
Percent Deflection	2			
Floor		8	8	
Bulge (mm)				near cl
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
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)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	0.3 silt d/s end
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	8	

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 3, Span Type:)					
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		8	8		
Heaving (mm)					
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	400				
Scour Protection		8	N	Snow covered	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		8	N	Snow covered	
Beavers (Y/N)	No				
Downstream End General Rating		8	8		

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				NO HWM visible
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	87.4/87.3	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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	29-Aug-2014		Previous Inspection Date	21-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							