

Bridge Culvert Inspection				
Bridge File Number	74554 -2 Bridge Culvert		Form Type	CUL1
Year Built	2001		Lot No.	4
Bridge or Town Name	DEBOLT		Inspector Name	Russel Vanderschaaf
Located Over	DEBOLT CREEK, 8.10.58.17.2.1.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	43:04 R1 51.128;43:04 L1 51.176		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	03-Dec-2012
Legal Land Location	NE SEC 2 TWP 72 RGE 1 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:01:37, 55:12:51		Data Entry Date	20-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05		Review Date	09-Jan-2013
Clear Roadway/Skew	24.9 / 10 deg. (RHF)		Dept. Reviewer Name	David Morrison
AADT/Year	5,340 / 2011 (A)		Dept. Review Date	21-Mar-2013
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	4610	SP	199.95	152X51	5.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	South side.			Gas	Meter, north r/w		
Power	South and north side.			Municipal			
Others	Street light standards at N&S.			Problem (Y/N)	No		
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Intersection 50 m west, SH 736.
Vertical Alignment		8	8	Turning lanes in both directions.
Roadway Width (m)	34.900			WBL 13.1m, EBL 13.8, 8m service road.
Embankment		N	N	Ditch drains at all 4 corners, and are loosing fill under rock. SW 10 X 1 X 1m, SE 5 X 1 X 1m -04-May-2009
Sideslope (__:1)	4.0			
(Height of Cover(m) : 10)				Snow covered.
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		N	N	Snow covered.
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	10 Class 2 sized rock washed in barrel. Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	N	Snow covered. U/S appears to be scouring-snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		5	8	

Bridge Culvert Barrel

Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4610, Type: SP)				
Barrel Last Accessible Date	08-Mar-2011			Couldn't access bareel due to ice condition.Shape look ok as viewed from ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	Estimated due to ice.
Measured Rise (mm)				
Measured At Ring No.	32			
Sag (mm)	134			
Percent Sag	3			
Sidewall		7	N	estimated
Measured Span (mm)	4744			
Measured At Ring No.	32			
Deflection (mm)	134			
Percent Deflection	3			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.	19			
Abrasion (Y/N)	No			
Circumferential Seams		8	N	
Separation (mm)	0			
Longitudinal Seams		8	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				2N Stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	N	Minor superficial lower 1/4.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4610, Type: SP)					
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	No				
Fish Passage Adequacy		7	7		
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	N	D/S 1/4 of barrel silted. 0.7m deep at d/s end.Ice covered.-08-Mar-2011	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
Barrel General Rating		7	N	GR was '7' on 08-Mar-2011	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		S			
End Treatment (Concrete, Steel, Others, None)	CONCRETE				
Headwall		6	6	About 1 medium wide crack per 0.5m.	
Collar		N	N	About 1 medium wide ctrack per 0.5m.-04-May-2009 Snow covered.	
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		N	N		
Bevel End		8	8		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	700				
Scour Protection		N	N	Snow covered.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 500)					
Scour/Erosion		N	N	Snow covered.	
Beavers (Y/N)	No				
Downstream End General Rating		6	6		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		7	7		
Bank Stability		5	5		
HWM (m below Top of Culvert)				Hwm not visible.	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading				Stable	
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					

Structure Usage				
		Last	Now	Explanation of Condition
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) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	72.1/72.2	Est. Repl. Yr	2049	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor ditch erosion and u/s end.		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	03-Sep-2014		Previous Inspection Date	08-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							