

Bridge Culvert Inspection				
Bridge File Number	76690 -1 Bridge Culvert		Form Type	CUL1
Year Built	1968		Lot No.	4
Bridge or Town Name	STANDARD		Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO SEVERN CREEK, 3.33.8.2, WATERCRS-ST		Inspector Class	BR CLS A
Located On	564:08 C1 19.713		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	11-Jan-2012
Legal Land Location	SW SEC 2 TWP 26 RGE 22 W4M		Data Entry By	Erin Roberts
Longitude, Latitude	-112:58:47, 51:11:00		Data Entry Date	07-Feb-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA30		Review Date	18-Jan-2012
Clear Roadway/Skew	11.8 / 15 deg. (RHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	200 / 2010 (A)		Dept. Review Date	09-Feb-2012
Road Classification	RLU-208-100		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	1450	1600	SPE	28.7	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

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

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Int SH 840 200m West Hill to East
Vertical Alignment	6	6	
Roadway Width (m)	11.800		
Embankment	6	7	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction			South
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	X	7	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	X	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		5	7	CONCRETE PLACED ON SIDESLOPE.
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	7	
Beavers (Y/N)	No			
Upstream End General Rating		5	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1450, Rise (mm): 1600, Type: SPE)				
Barrel Last Accessible Date	11-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	7	
Measured Rise (mm)	1550			
Measured At Ring No.	5			
Sag (mm)	50			
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	1463			
Measured At Ring No.	6			
Deflection (mm)	13			
Percent Deflection	1			
Floor		N	5	SMALL HOLE 2"x 2" @ ring 8. SOME BOLTS LOOSE AND MISSING IN FLOOR.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Superficial rust on floor
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1450, Rise (mm): 1600, Type: SPE)					
Fish Passage Adequacy		5	6		
Baffle		X	X		
(Type :)					
Waterway Adequacy		4	7	300mm silt at 3 U/S rings.	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
Barrel General Rating		4	7		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction				North	
End Treatment (Concrete, Steel, Others, None)	CONCRETE				
Headwall		X	X		
Collar		X	6		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		5	6		
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	50				
Scour Protection		4	5	Concrete placed on sides & end of Bevel.	
(Type : CONCRETE)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		4	5		
Beavers (Y/N)	No				
Downstream End General Rating		4	5		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		6	6	CHANNEL TURNS TO WEST D/S, BEND IS RIP RAPPED Dugout in u/s channel, rock armor washed into culvert.	
Bank Stability		6	6		
HWM (m below Top of Culvert)				HWM not visible	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	AGGRADING				
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		6	6		

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) (%)	44.4/77.8	Sufficiency Rating (Last/Now) (%)	48.1/75.0	Est. Repl. Yr	2025	Maint. Req'd. (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	William Reardon		Previous Assistant's Name				
Next Inspection Date	11-Apr-2015		Previous Inspection Date	25-Nov-2008			
Inspection Cycle (Default) (months)	39						
Comment							