

Bridge Culvert Inspection				
Bridge File Number	78680 E-1 Bridge Culvert		Form Type	CUL1
Year Built	1978		Lot No.	2
Bridge or Town Name	EDSON		Inspector Name	Todd Warshawski
Located Over	BENCH CREEK, 8.11.107.25.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	16:06 R1 9.572		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	09-Aug-2012
Legal Land Location	NE SEC 16 TWP 53 RGE 17 W5M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-116:26:27, 53:34:43		Data Entry Date	23-Aug-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA13		Review Date	21-Aug-2012
Clear Roadway/Skew	15 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	8,800 / 2011 (A)		Dept. Review Date	30-Aug-2012
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	-	3670	SP	42.7	152X51	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	Light standards both sides.	Municipal	Likely present.
Others		Problem (Y/N)	No
Remarks	BF tag on N bevel.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Typical town intersections.
Vertical Alignment	8	8	
Roadway Width (m)	14.600		
Embankment	7	7	2:1 on N side.
Sideslope (__:1)	1.0		
(Height of Cover(m) : 1.6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
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		5	5	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		5	5	Grass with several scattered sandstone boulders.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)				
Barrel Last Accessible Date				(Water 1.5m deep. Viewed from ends, shape and condition appear good.
Special Features				
Special Feature				There is steel grating at both ends of pipe to keep public out. Debris caought up on u/s grate.
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	(Sag est @ 7.5%) Sep 2010
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	N	(Deflection est @ 7.5%) Sep 2010
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
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)	No			
Coating		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)					
Ponding (Y/N)	Yes				
Fish Passage Adequacy		8	8		
Baffle		N	N		
(Type :)					
Waterway Adequacy		6	6	Drift caught in steel grate.	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	Yes				
Barrel General Rating		N	N	(G.R. of "7" carried forward for at least 4 inspection cycles but last access not known)	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
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		6	6	Partially submerged.	
Heaving (mm)	100				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	500				
Scour Protection		6	6	Grass with several scattered sandstone boulders.	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		6	6		
Beavers (Y/N)	No				
Downstream End General Rating		6	6		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		5	5	Turns East D/S. Channel undefined near culvert.	
Bank Stability		6	6		
HWM (m below Top of Culvert)				HWM not visible.	
Drift (Y/N)	Yes				
Channel Bottom Degrading/Aggrading	AGGRADING				
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		5	5		

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	Remove debris from inlet and outlet grates					
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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	56.2/57.5	Est. Repl. Yr	2030	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	As this structure has not been accessed for 2 or more cycles, a Level 2 inspection is required as per BIM Manual Section 13.9.1.5. Based on observed site evaluations we are recommending that this be deferred to a later date.		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	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	09-May-2014		Previous Inspection Date	27-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							