

Bridge Culvert Inspection			
Bridge File Number	72820 -1 Bridge Culvert	Form Type	CULE
Year Built	1952	Lot No.	4
Bridge or Town Name	DUNMORE	Inspector Name	Tom Carey
Located Over	TRIBUTARY TO ROSS CREEK, 2.7.3, WATERCRS-ST	Inspector Class	BR CLS A
Located On	1:22 R1 14.649;1:22 L1 14.631	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Feb-2012
Legal Land Location	NE SEC 11 TWP 12 RGE 4 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-110:26:30, 49:58:58	Data Entry Date	26-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA23	Review Date	26-Feb-2012
Clear Roadway/Skew	25.6 /	Dept. Reviewer Name	Tim Davies
AADT/Year	6,360 / 2011 (A)	Dept. Review Date	29-Mar-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	U/S	-	1200	MP	52			ROUND
1	MAIN	1525	1525	BP	30.5			RECTANGLE
1	D/S	-	1200	MP	13			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North side.	Gas	
Power	South side, 3-wire; 40m FROM C.L.	Municipal	
Others		Problem (Y/N)	No
Remarks	U/S barrel located 75m West of AMA odometer test section sign. 3km test sign going East.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	Gradual curve 200 m West.
Vertical Alignment	9	9	
Roadway Width (m)	25.600		
Embankment	7	7	North side is 6:1.
Sideslope (__:1)	4.0		
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	8	8	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction			CSP. South. Difficult to locate this culvert.
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				At stream bed ditch line.
Above/Below (mm)	0			
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 1200, Type: MP)				
Barrel Last Accessible Date	16-Jun-2008			Water too deep to enter.
Special Features				
Special Feature (Type :)				Went in to section #4 before ice depth made it to small to enter. Viewed from end- appears adequate.
Special Feature (Type :)				
Roof		N	N	(1100 @ Sections South of (CSP/BOX joint most likely install damage. Large dents, roof sag)).
Measured Rise (mm)	1165			
Measured At Ring No.	4			
Sag (mm)	35			
Percent Sag	3			
Sidewall		N	N	
Measured Span (mm)	1220			
Measured At Ring No.	4			
Deflection (mm)	20			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	(Separation grouted)16-June-2008
Separation (mm)	60			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 1200, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		N	5	Flow is controlled by 900 mm RR pipe.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		N	N	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1525, Rise (mm): 1525, Type: BP)				
Barrel Last Accessible Date	16-Jun-2008			
Special Features				
Special Feature				Ice 1m deep. Viewed from ends U/S and D/S- appears adequate.
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	(1100 @ Sections South of CSP/BOX Joint most likely install damage. Large dents, roof sag) (Sag measured @ bevel section) 16-June-2008
Measured Rise (mm)	1165			
Measured At Ring No.				
Sag (mm)	35			
Percent Sag	3			
Sidewall		N	N	
Measured Span (mm)	1220			
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	(Separation grouted)16-June-2008
Separation (mm)	60			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	
Corrosion By Soil (Y/N)	Yes			
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): 1525, Rise (mm): 1525, Type: BP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		N	5	Flow is controlled by 900 mm RR pipe.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				North.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Half full of ice.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		N	N	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	Carries ditch drainage.
HWM (m below Top of Culvert)	0.0			No visible HWM.
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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	69.6/57.0	Est. Repl. Yr	2020	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	08-Nov-2013		Previous Inspection Date	07-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							