

Bridge Culvert Inspection			
Bridge File Number	71883 -1 Bridge Culvert	Form Type	CULM
Year Built	1952	Lot No.	4
Bridge or Town Name	WILDWOOD	Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO LOBSTICK RIVER, 8.11.84.51.12, WATERCRS-ST	Inspector Class	BR CLS B
Located On	16:10 L1 10.635;16:10 R1 10.590	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	10-Aug-2012
Legal Land Location	SW SEC 28 TWP 53 RGE 9 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:16:12, 53:36:17	Data Entry Date	05-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA12	Review Date	27-Aug-2012
Clear Roadway/Skew	23.8 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	6,530 / 2011 (A)	Dept. Review Date	18-Sep-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	18600	2430	BP	75.9			RECTANGLE
Special Features	INSTRUMENT DEV							
Special Features Comment	Span 6200							

Utilities (Located at)

Utility Attachments			
Telephone	North r/w	Gas	
Power	3 wires OH South r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks	File tag SE on top of headwall.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Hwy turns 400m East, 600m West, L.R. intersection 750m west.
Vertical Alignment	8	8	
Roadway Width (m)	23.800		WBL 12.7m, EBL 11.1m.
Embankment	7	7	6" ABS pipe in place on both sideslopes of EBL. (for monitoring)
Sideslope (__:1)	2.0		
(Height of Cover(m) : 2.3)			
Guardrail (Y/N)	Yes		Ditch sides only.
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	7	7	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	Water 1.2m deep

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Narrow vertical cracks in SE bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6200, Rise (mm): 2430, Type: BP, Cell Sequence: 3)				
Barrel Last Accessible Date	09-Mar-2007			East cell. Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature		N	N	
(Type : INSTRUMENT DEV)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	(Scaling / abrasion bottom half of old box. Vertical cracking. Extra concrete added makes span 1540. 09/Mar/2007)
Measured Span (mm)	1851			
Measured At Ring No.				
Deflection (mm)	31			
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	70			
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)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			(600mm ponding governed in part by Chip Lake. 09/Mar/2007)

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6200, Rise (mm): 2430, Type: BP, Cell Sequence: 3)				
Fish Passage Adequacy		7	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	(G/R/ was "5" from 09/Mar/2007)q
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6200, Rise (mm): 2430, Type: BP, Cell Sequence: 1)				
Barrel Last Accessible Date	09-Mar-2007			West cell. Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature		N	N	
(Type : INSTRUMENT DEV)				
Special Feature				
(Type :)				
Roof		N	N	(Longitudinal cracking at chamfer line near roof on old centre cell box. Steel plate on roof joints North half. 09/Mar/2007) .
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Scaling/abrasion bottom 1/2 of old box, old concrete. Vertical cracking old concrete. Extra concrete added makes span 1540. 09/Mar/2007)
Measured Span (mm)	1850			
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	85			
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)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			(600 mm ponding governed in part by Chip Lake. 09/Mar/2007)

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6200, Rise (mm): 2430, Type: BP, Cell Sequence: 1)				
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	(G.R. was "5" from 09/Mar/2007)
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6200, Rise (mm): 2430, Type: BP, Cell Sequence: 2)				
Barrel Last Accessible Date	09-Mar-2007			Center cell. Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature		N	N	
(Type : INSTRUMENT DEV)				
Special Feature				
(Type :)				
Roof		N	N	(Steel plates on roof joints. Longitudinal cracking along chamfer lines. 09/Mar/2007)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Lower 1.0 m medium scaled on old box. Vertical cracking. 09/Mar/2007)
Measured Span (mm)	1825			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	85			
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)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			(600 mm ponding governed in part by Chip Lake. 09/Mar/2007)

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6200, Rise (mm): 2430, Type: BP, Cell Sequence: 2)				
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	(G.R. was "5" from 09/Mar/2007)
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	Shallow spalls 5% of headwall, H/L vertical cracks at 75mm.
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		4	4	Wide longitudinal crack extends into barrel. Concrete spall on two internal walls D/S end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		6	6	
(Type : RIP RAP, CONCRETE)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	30% bend at u/s end.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	NONE			(Dam 50m U/S. 06/June/2005)
Beavers (Y/N)	Yes			
(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) (%)	61.5/61.4	Est. Repl. Yr	2040	Maint. Req. (Y/N)	No
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	10-May-2014		Previous Inspection Date	13-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							