

Bridge Culvert Inspection				
Bridge File Number	77048 -1 Bridge Culvert		Form Type	CUL1
Year Built	1998		Lot No.	4
Bridge or Town Name	HINTON		Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO WIGWAM CREEK, 8.11.107.41.1.1.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	40:28 C1 34.290		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	30-Oct-2012
Legal Land Location	NW SEC 36 TWP 49 RGE 25 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:31:38, 53:16:24		Data Entry Date	25-Nov-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA13		Review Date	13-Nov-2012
Clear Roadway/Skew	9.5 / -17 deg. (LHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	490 / 2011 (A)		Dept. Review Date	06-Dec-2012
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	20			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2740	SP	91.4	152X51	4.0,4.0,4.0	ROUND

Special Features

Special Features Comment

Utilities (Located at)

Utility Attachments				
Telephone	East r/w and West r/w		Gas	
Power			Municipal	
Others			Problem (Y/N)	No
Remarks	File tag loose.			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	In a curve. No passing.
Vertical Alignment		6	6	Bottom of long sag.
Roadway Width (m)	9.500			
Embankment		N	N	Snow covered.
Sideslope (:1)	2.5			
(Height of Cover(m) : 14)				Estimated.
Guardrail (Y/N)	Yes			Minor strike damage, still functional.
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	8	8	
Collar	N	N	(Hairline transverse cracks. 28/Sept/2005) Snow covered.
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	Partially snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2740, Type: SP)				
Barrel Last Accessible Date	30-Oct-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	
Measured Rise (mm)	2695			
Measured At Ring No.	32			
Sag (mm)	45			
Percent Sag	1			
Sidewall		8	8	
Measured Span (mm)	2764			
Measured At Ring No.	32			
Deflection (mm)	24			
Percent Deflection	1			
Floor		N	8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		9	8	
Separation (mm)	0			
Longitudinal Seams		9	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N/2N
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2740, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle (Type :)		8	5	Missing 1 support bracket at u/s. Anchored steel wier.-photo
Waterway Adequacy		7	7	(300mm crown to ice @ inlet. 2002/04/08)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		N	8	
Heaving (mm)	100			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	700			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		N	N	Snow covered.
Scour/Erosion		N	N	
Beavers (Y/N)		No		
Downstream End General Rating		9	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	D/S channel armoured for 30m.
Bank Stability		N	N	Snow covered
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading				Snow covered. U/S beaverdam
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	85.3/83.5	Est. Repl. Yr	2048	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	30-Jul-2014		Previous Inspection Date	23-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							