

Bridge Culvert Inspection				
Bridge File Number	75779 -1 Bridge Culvert		Form Type	CUL1
Year Built	1976		Lot No.	4
Bridge or Town Name	PEERS		Inspector Name	Eric Carcoux
Located Over	JANUARY CREEK, 8.11.107.22, WATERCRS-ST		Inspector Class	BR CLS A
Located On	32:08 C1 7.823		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Oct-2012
Legal Land Location	SW SEC 15 TWP 54 RGE 14 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:59:21, 53:39:52		Data Entry Date	06-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Stew Hagan
Contract Main. Area	CMA12		Review Date	12-Dec-2012
Clear Roadway/Skew	10.8 /		Dept. Reviewer Name	Paul Catt
AADT/Year	1,250 / 2011 (A)		Dept. Review Date	18-Jan-2013
Road Classification	RAU-209-110		Follow-Up By	
Detour Length (km)	23			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	5260	5860	SPE	86.6	152X51	5.0,7.0,6.0	ELLIPSE
Special Features								
Special Features Comment	Tagged at u/s end.							

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	200 m north.
Power	3 wires OH East & West r/w.	Municipal	
Others	Fibre 1m under U/S end.	Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	No passing. Intersection 150m North to Peers. Limited sight distance due to crest curve to the south.
Vertical Alignment	6	6	
Roadway Width (m)	10.800		
Embankment	7	7	
Sideslope ( __:1)	3.0		
(Height of Cover(m) : 6)			
Guardrail (Y/N)	Yes		
<b>Approach Road / Embankment General Rating</b>	<b>6</b>	<b>6</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	4	4	Extended concrete sideslopes has settled 400mm at top.
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		4	4	Fill along collar has settled 400mm.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5260, Rise (mm): 5860, Type: SPE)</b>				
Barrel Last Accessible Date	14-Dec-2010			Water too deep to enter, viewed from ends - shape looks good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		3	N	(Design shape for 72N, 5540mm SPCSP 5% ellipse would be 5260mm span x 5860mm rise. 19/July/2007) (Viewed from ends, roof appears to be in good shape.-14-Dec-2010)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	35			
Percent Sag				
Sidewall		N	N	(Measured 5250m span near c/l. 0.2%. 15/Sept/2000) (Ice approx 300mm above springline. Measured 5186 ar R12 5230 RS.-14-Dec-2010)
Measured Span (mm)	5250			
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		3	N	Missing bolt R14.-14-Dec-2010  D/S ring is cracked at 12 o'clock from backfill pressure.-photo-14-Dec-2010  1N
Total No. of Cracked Rings	1			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)	50			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Minor superficial rust lower 1/2 above water. 17/Oct/2005)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5260, Rise (mm): 5860, Type: SPE)				
Fish Passage Adequacy		9	9	
Baffle		N	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>3</b>	<b>3</b>	GR carried fwd from 14-Dec-2010
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>N</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	6	Stream meanders U/S.
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>50.6/52.1</b>	Est. Repl. Yr	2040	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	Monitor crack in d/s ring. If cracked propagates into second ring consider installing concrete collar and headwall u/s and d/s.		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	14-Jul-2014		Previous Inspection Date	14-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							