

Bridge Culvert Inspection			
Bridge File Number	75262 -1 Bridge Culvert	Form Type	CUL1
Year Built	2001	Lot No.	2
Bridge or Town Name	GRIMSHAW	Inspector Name	Stew Hagan
Located Over	TRIBUTARY TO STRONG CREEK, 8.10.59.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	2A:36 C1 5.755	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	05-Jul-2012
Legal Land Location	SW SEC 23 TWP 83 RGE 23 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:31:24, 56:12:14	Data Entry Date	18-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	05-Sep-2012
Clear Roadway/Skew	12 / -30 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	1,450 / 2011 (A)	Dept. Review Date	01-Nov-2012
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	3		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	U/S	4179	2830	RPE	9.75	152X51		ELLIPSE
1	MAIN	4179	2830	RPE	49.38	152X51	3.0	ELLIPSE
1	D/S	4179	2830	RPE	9.75	152X51		ELLIPSE
Special Features	BARREL DEICING PIPE							
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrance to the west & East
Vertical Alignment		7	8	
Roadway Width (m)	12.000			
Embankment		3	9	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	9	
Collar		8	8	Chip in collar to be repaired as a deficiency.
Wingwalls		X	X	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		7	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1200			
Scour Protection		N	9	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	9	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): 4179, Rise (mm): 2830, Type: RPE)</b>				
Barrel Last Accessible Date	08-Feb-2008			
<b>Special Features</b>				
Special Feature			3	Deicing line not connected to concrete headwall as per drws-to be repaired as a deficiency.
(Type : <b>BARREL DEICING PIPE</b> )				
Special Feature				
(Type : )				
Roof			7	(At cl, Rise=2793, Deflection-13%-20020125) Floor covered with silt.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	90			
Percent Sag				
Sidewall			N	
Measured Span (mm)	4211			
Measured At Ring No.				
Deflection (mm)	32			
Percent Deflection	1			
Floor			N	Covered with silt.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			N	3N stagger, none on sides above ice.
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			6	Superficial corrosion lower 1/2. Akaling deposits through roof bolts.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): 4179, Rise (mm): 2830, Type: RPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy			8	
Baffle			X	
(Type : )				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel Extension General Rating</b>			<b>N</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	No evident problems.
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		8	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	9	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	9	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>9</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	7	
Bank Stability		4	7	
HWM (m below Top of Culvert)	0.6			HWM not visible. Debris on sidewall bolts.-08-Feb-2010
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>7</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	2012	Remix deicing line connection to headwall(deficiency work)					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>68.9/68.5</b>	Est. Repl. Yr	2055	Maint. Req. (Y/N)	Yes
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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	05-Apr-2014		Previous Inspection Date	08-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							