

Bridge Culvert Inspection				
Bridge File Number	77924 -1 Bridge Culvert		Form Type	CUL1
Year Built	1974		Lot No.	4
Bridge or Town Name	TEES		Inspector Name	Owen Salava
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	821:02 C1 6.477		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Aug-2012
Legal Land Location	SW SEC 18 TWP 41 RGE 23 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:18:55, 52:31:17		Data Entry Date	06-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA20		Review Date	04-Sep-2012
Clear Roadway/Skew	8 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	520 / 2011 (A)		Dept. Review Date	12-Sep-2012
Road Classification	RAU-209-110		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	MAIN	-	2134	MP	21.3	68X13	3.5	ROUND
Special Features								
Special Features Comment								

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)			No									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks		Not required.										

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		5	5	Curve to the South on a hill. Limited sight distance to North. 200m North of intersection.
Vertical Alignment		5	5	
Roadway Width (m)	8.000			
Embankment		8	8	
Sideslope (___:1)	2.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

Upstream End				
<b>Culvert Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Direction		E		
End Treatment (Concrete, Steel, Others, None)		NONE		
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		X	X	No beveled end.
Heaving (mm)	80			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection (Type : <b>NATURAL</b> ) (Avg. Rock Size(mm) : )		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2134, Type: MP)				
Barrel Last Accessible Date	14-Aug-2012			
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof		7	7	
Measured Rise (mm)				Estimated.
Measured At Ring No.	3			
Sag (mm)	64			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	2154			0.9%
Measured At Ring No.	3			
Deflection (mm)	20			
Percent Deflection	1			
Floor		N	N	Covered with 70mm of dirt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
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		6	6	Showing signs of rust 12m from D/S end, minor.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2134, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	No bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		9	9	
Roadway Surface		9	9	
(Type : <b>SOIL</b> )				
Icing (Y/N)	No			
Traffic Safety Features		6	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Drainage		7	7	
Structure In Use (Y/N)	No			Fence across West end, continuous r/w fencing; E fence in disrepair.
<b>Grade Separation General Rating</b>		<b>6</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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>82.6/83.3</b>	Est. Repl. Yr	2035	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)	N						
Proposed Action	2006.08.28 Revisit site in 2 year, review usage at that time to determine if removal is best course of action.						
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					
Next Inspection Date	14-Nov-2015	Previous Inspection Date	03-Sep-2009				
Inspection Cycle (Default) (months)	39						
Comment							