

Bridge Culvert Inspection				
Bridge File Number	71312 -1 Bridge Culvert		Form Type	CUL1
Year Built	1987		Lot No.	4
Bridge or Town Name	FAIRVIEW		Inspector Name	Russel Vanderschaaf
Located Over	HINES CREEK, 8.10.80, WATERCRS-ST		Inspector Class	BR CLS B
Located On	685:02 C1 25.608		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Aug-2012
Legal Land Location	NE SEC 33 TWP 83 RGE 3 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:24:15, 56:14:47		Data Entry Date	24-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	23-Sep-2012
Clear Roadway/Skew	8.5 /		Dept. Reviewer Name	Steve Pasquan
AADT/Year	640 / 2011 (A)		Dept. Review Date	04-Jan-2013
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	10			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	8560	5210	RPE	68.9	152X51	3.0	ELLIPSE
Special Features								
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		6	6	Gradual curve - no passing bottom of sag curve.
Vertical Alignment		5	5	
Roadway Width (m)	8.500			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		6	6	Crack @ bottom of east collar.
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		5	5	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8560, Rise (mm): 5210, Type: RPE)				
Barrel Last Accessible Date	06-Mar-2006			Viewed from ends, shape appears good, water 3.9m from crown.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	inward deflection(06-March-2006)
Measured Span (mm)	8509			
Measured At Ring No.	7			
Deflection (mm)	51			
Percent Deflection	0			
Floor		N	N	Water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	Missing 60 bolts, 2 every plate. Exterior roof stiffeners from 2 to 10 o'clock positions across roof missing bolts due to stiffener design Could not be installed.(06-March-2006)
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				ONE SEAM EACH SIDE RUNS FULL LENGTH TO ALLOW ARCH SHAPE, 3N otherwise.-06-March-2006
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	Minor surface staining from water. Heavy alkali deposits & staining @ clay seal locations from soil side corrosion (photo).(06-March-2006)
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8560, Rise (mm): 5210, Type: RPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	Minor hairline cks on w. collar.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	CURVES U/S & D/S WITHIN 50 M Minor bank sloughing on d/s bend.
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			U/S near camp.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition

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) (%)	65.5/66.0	Est. Repl. Yr	2037	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor soil side corrosion. Monitor ck on u/s collar.		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	Jordan Evans			
Next Inspection Date	26-Nov-2015		Previous Inspection Date	07-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							