

Bridge Culvert Inspection			
Bridge File Number	79227 -1 Bridge Culvert	Form Type	CULM
Year Built	1982	Lot No.	4
Bridge or Town Name	RANFURLY	Inspector Name	Owen Salava
Located Over	3RD ORDER TRIBUTARY TO BIRCH LAKE, 6.5.18.3.5.2.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	16:26 R1 13.260;16:26 L1 13.274	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	18-Dec-2012
Legal Land Location	NW SEC 7 TWP 51 RGE 11 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-111:37:17, 53:23:43	Data Entry Date	03-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA14	Review Date	20-Dec-2012
Clear Roadway/Skew	25 /	Dept. Reviewer Name	Andrew Smikles
AADT/Year	6,330 / 2011 (A)	Dept. Review Date	04-Jan-2013
Road Classification		Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information								
Number of Culverts		3						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	900	MP	27			ROUND
2	MAIN	-	900	MP	27			ROUND
3	MAIN	-	900	MP	27			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment			6	Horizontal curve; intersection 200m W.
Vertical Alignment			7	
Roadway Width (m)	25.000			
Embankment			7	
Sideslope (__:1)	7.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating			6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		N		W pipe
End Treatment (Concrete, Steel, Others, None)				
Headwall			X	
Collar			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	
Beavers (Y/N)				
Upstream End General Rating			N	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Barrel Last Accessible Date				Snow covered ends; unable to view. Pipe length of 27 is too short for freeway.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Coating			N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy			X	
Baffle			N	
(Type :)				
Waterway Adequacy			N	
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating			N	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	
Beavers (Y/N)				
Downstream End General Rating			N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		N		Centre pipe.
End Treatment (Concrete, Steel, Others, None)				
Headwall			X	
Collar			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	
Beavers (Y/N)				
Upstream End General Rating			N	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Barrel Last Accessible Date				Snow covered ends; unable to view. Pipe length of 27 is too short for freeway.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Coating			N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy			X	
Baffle			N	
(Type :)				
Waterway Adequacy			N	
Icing (Y/N)				
Siltting (Y/N)				
Drift (Y/N)				
Barrel General Rating			N	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	
Beavers (Y/N)				
Downstream End General Rating			N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		N		E pipe
End Treatment (Concrete, Steel, Others, None)				
Headwall			X	
Collar			X	

Upstream End				
Culvert Component	Last	Now	Explanation of Condition	
(Pipe # : 3, Span Type: Secondary Span)				
Wingwalls (Shape :)		X		
Cutoff Wall		X		
Bevel End		N	Snow covered	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection (Type :) (Avg. Rock Size(mm) :)		N		
Scour/Erosion		N		
Beavers (Y/N)				
Upstream End General Rating		N		

Bridge Culvert Barrel				
Culvert Component	Last	Now	Explanation of Condition	
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Barrel Last Accessible Date			Snow covered ends; unable to view. Pipe length of 27 is too short for freeway.	
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		N		
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N		
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N		
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N		
Separation (mm)				
Longitudinal Seams		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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Coating			N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy			X	
Baffle			N	
(Type :)				
Waterway Adequacy			N	
Icing (Y/N)				
Siltting (Y/N)				
Drift (Y/N)				
Barrel General Rating			N	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			N	Snow covered.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	
Beavers (Y/N)				
Downstream End General Rating			N	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	No defined channel. TWP Rd. 51-2 20m u/s of inlets.
Bank Stability			N	Snow covered.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				Unknown
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			6	

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	Sufficiency Rating (Last/Now) (%)	/67.0	Est. Repl. Yr	2030	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			Previous Assistant's Name				
Next Inspection Date	18-Sep-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							