

Bridge Culvert Inspection			
Bridge File Number	78857 -1 Bridge Culvert	Form Type	CUL1
Year Built	1978	Lot No.	4
Bridge or Town Name	BELLEVUE	Inspector Name	Garry Roberts
Located Over	TRAIL-PED, OVER 50000 PS	Inspector Class	BR CLS A
Located On	3:02 C1 26.994	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	29-Nov-2011
Legal Land Location	NE SEC 20 TWP 7 RGE 3 W5M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-114:21:58, 49:34:38	Data Entry Date	09-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA26	Review Date	08-Dec-2011
Clear Roadway/Skew	13.4 /	Dept. Reviewer Name	Tim Davies
AADT/Year	6,480 / 2010 (A)	Dept. Review Date	12-Jan-2012
Road Classification	RAU-213-120	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3000	SP	39.6	152X51	3.5,3.5,3.5	ROUND
Special Features	CONC FLOOR							
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	PED. NW, MANHOLES S ROW					Gas	crossing 80 m east					
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves to the E-int 200m W Superelevated, no passing WB.
Vertical Alignment		8	7	
Roadway Width (m)	13.400			
Embankment		8	8	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.9)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		North end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	Hairline cracks

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Wingwalls (Shape :)		X	X		
Cutoff Wall		X	X		
Bevel End		8	8		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW			150mm concrete floor makes floor flush with path.	
Above/Below (mm)	150				
Scour Protection (Type :) (Avg. Rock Size(mm) :)		8	8		
Scour/Erosion		8	8		
Beavers (Y/N)	No				
Upstream End General Rating		8	8		
Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: SP)					
Barrel Last Accessible Date	29-Nov-2011				
Special Features					
Special Feature (Type : CONC FLOOR)		8	8		
Special Feature (Type :)					
Roof		8	7	Rise taken from concrete floor in R3 Minor construction dent in R2.	
Measured Rise (mm)	2593				
Measured At Ring No.	3				
Sag (mm)	0				
Percent Sag					
Sidewall		7	7	inward	
Measured Span (mm)	2900				
Measured At Ring No.	3				
Deflection (mm)	100				
Percent Deflection	3				
Floor		N	N	Concrete floor.	
Bulge (mm)	0				
Measured At Ring No.					
Abrasion (Y/N)	No				
Circumferential Seams		8	8		
Separation (mm)	0				
Longitudinal Seams		8	7		
Total No. of Cracked Rings	0				
Total No. of Rings with Two Cracked Seams	0				
Min. Remaining Steel Between Cracks (mm)					
Proper Lap (Y/N)	No				
Longitudinal Stagger (Y/N)	No				
Coating		5	5	Minor superficial corrosion on exterior of roof at south. Alkali staining along bolt seams	
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): 3000, Type: SP)				
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			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South end
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			150 mm concrete floor makes floor flush with path
Above/Below (mm)	150			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	X	Pedestrian walkway.
Roadway Surface		8	7	
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		7	7	Steel uprights - 1.25 opening (width). With hazard boards at both ends.
Type	STEEL POSTS			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		6	7	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		7	7	

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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	84.3/84.3	Est. Repl. Yr	2034	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	29-Aug-2013		Previous Inspection Date	18-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							