

Bridge Culvert Inspection				
Bridge File Number	74537 -1 Bridge Culvert		Form Type	CUL1
Year Built	1961		Lot No.	4
Bridge or Town Name	PARKLAND BEA		Inspector Name	Jon Davies
Located Over	TRIBUTARY TO MOSQUITO CREEK, 2.12.12.12.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	2:10 L1 10.853;2:10 R1 10.924		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	18-Oct-2011
Legal Land Location	NW SEC 16 TWP 15 RGE 27 W4M		Data Entry By	Erin Roberts
Longitude, Latitude	-113:39:60, 50:15:38		Data Entry Date	21-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA26		Review Date	08-Nov-2011
Clear Roadway/Skew	27.8 /		Dept. Reviewer Name	Tim Davies
AADT/Year	8,630 / 2010 (A)		Dept. Review Date	25-Nov-2011
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2970	2010	RPP	70.7	152X51	4.0	PIPE ARCH
Special Features		SHOTCRETE BEAM						
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East r/w		Gas
Power	2 wire over structure @ West		Municipal
Others	Fibre optics West r/w		Problem (Y/N) No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	INT 100 m SOUTH
Vertical Alignment		8	8	14.1 NBL & 13.7 SBL flaring out for turn offs.
Roadway Width (m)	27.800			
Embankment		7	7	
Sideslope (:1)	4.0			
(Height of Cover(m) : 1.7)				
Guardrail (Y/N)	Yes			Only on SBL (8 sections) along West side
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2970, Rise (mm): 2010, Type: RPP)				
Barrel Last Accessible Date	18-Oct-2011			
Special Features				
Special Feature		7	7	In rings 12-20 South sidewall only
(Type : SHOTCRETE BEAM)				
Special Feature				
(Type :)				
Roof		5	5	
Measured Rise (mm)	1890			
Measured At Ring No.	17			
Sag (mm)	120			
Percent Sag	6			
Sidewall		4	4	1 cracked seam at D/S R12 U/S beam span = 2989mm R21 D/S beam spam = 3042mm
Measured Span (mm)	3042			
Measured At Ring No.	21			
Deflection (mm)	72			
Percent Deflection	2			
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		4	4	
Total No. of Cracked Rings	1			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	110			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	SPLICE PLATES @ OLD TO NEW CONNECTION SUPERFICIAL WATER & SOIL CORROSION.
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): 2970, Rise (mm): 2010, Type: RPP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		EAST
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	6	SURFACE RUST SOUTH
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Channel defined by CSP u/s and conc. box d/s - RR tracks.
Bank Stability		7	7	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	59.5/58.5	Est. Repl. Yr	2025	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	18-Jul-2013		Previous Inspection Date	23-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							