Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection												
Bridge File Number 00827 -1 Bridge Culvert						Form T	Form Type		CUL1			
Year Built 1956						Lot No.		1				
Bridge or Town	Name L		RECK				Inspector Name		Garry Roberts			
Located Over	C	CONNE	ELLY CREEK, 2.12.37.5,				Inspector Class		BR CLS A			
	V	NATER	CRS-ST				Assistant Name					
Located On	2.092				Assistant Class							
Water Body CI./						ion Date		16-Jun-2012				
Navigabil. Cl./Year					Data E	ntry By		Erin Roberts				
Legal Land Loca	ation r	NW SEC	5 35 TWP 7 RGE 2 W5M				Data Entry Date		11-Jul-2012			
Longitude, Latitude -114:10:		55, 49:36:20				Reviewer Name		Joel Wozney				
Road Authority Alberta		I ransportation		Review Date			26-Jun-2012					
Contract Main. Area CMA26				Dept. Reviewer Name		Tim Davies						
	SKEW I	11.7/	0011 (A)		Dept. Review Date		12-Jul-2012					
Road Classificat	tion E	2,300/2	1 9 110			Follow-Up By						
Dotour Longth (km) 1	12	1.8-110									
Detour Length (KM) 13												
Bridge culvert information												
Pipe #	Barrel		Span	Rise (or Dia.) Typ		Туре	Length			Corr. Profile	PI./Slab	Shape
1 1	MAIN		2605	2880		SPF		75.6		152X51	4 2	FLUPSE
Special Feature	2000 2880				0. 2	75.0			102,101			
Special Features Comment												
	Utilities (Located at)											
Utility Attachmer	nts											
Telephone	Plowed	l in East	ditch.				Gas		300m	North.		
Power	3 wire C	OH East	t of c/l.				Municir	nicipal				
Others							Probler	(Y/N) No				
Remarks	Remarks (Cable exposed on East sideslope - fibre optic.)											
	Approach Road / Embankment											
				Last	Now	Explanation of Condition						
Horizontal Alignment			5	5	Crest curve about 150m South.							
Vertical Alignment			44 700		5	5						
Roadway Width (m)		11.700										
Embankment				6	6							
Sideslope (:	:1)		3.5									
(Height of Cover(m) : 8.5)												
Guardrail (Y/N)			No									
Approach Road	d / Emba	ankmen	t General Rat	ing	5	5						
						Upstre	am <u>End</u>					
Culvert Component			Last	Now	Explanation of Condition							
Direction			W		West							
End Treatment (Concrete, Steel, STEEL Others, None)												
Headwall			X	Х								
Collar			X	Х								
Wingwalls			X	Х								
(Shape:)					1							
Cutoff Wall					X	Х						

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Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		4	4	Bevel bent 200mm at South corner							
Heaving (mm)	250										
Invert Above/Below Stream Bed BELOW											
Above/Below (mm)	100										
Scour Protection		4	4	Erosion 400mm x 1500mm @ sides of inlet.							
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		4	4								
Beavers (Y/N)	Yes			Beaverdam across bevel blocking 80%.							
Upstream End General Rating		4	4								
		Brie	lae Cu	Ivert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2605	, Rise (mm): 2880, Type: SPE)							
Barrel Last Accessible Date	16-Jun-2012										
Special Features											
Special Feature											
(Type:)											
Special Feature											
(Туре :)											
Roof		5	5								
Measured Rise (mm)	2665										
Measured At Ring No.	4										
Sag (mm)	215										
Percent Sag	7										
Sidewall		3	3	Cracks in the sidewall.							
Measured Span (mm)	2835										
Measured At Ring No.	4										
Deflection (mm)	230										
Percent Deflection	8										
Floor			3	100x100mm hole in floor @ R-4							
Bulge (mm)	100			Several perforations in South floor haunch of R22 and R23							
Measured At Ring No.	4										
Abrasion (Y/N)	Yes			1							
Circumferential Seams			5	Missing isolated bolts.							
Separation (mm)	0										
			3	20mm gap @ plate @ North sidewall @ ring #1							
Total No. of Cracked Rings	1	0	5	10 cracked bolts R4. Minor change in remaining steel from 75 to							
Total No. of Rings with Two Cracked Seams	0			65mm. Piping at isolated seams. 1N stagger.							
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel 65 Between Cracks (mm)			5 cracked bolts in R22 145mm remaining steel.							
Proper Lap (Y/N)	No			1							
Longitudinal Stagger (Y/N) Yes				1							
Coating			3	25mm-150mm dia corrosion holes in ring 22 & 23 South haunches							
Corrosion By Soil (Y/N)	Yes			Soil side corrosion at upper seams							
Corrosion By Water (Y/N)	Yes										
Camber POS/ZERO/NEG	NEG										
Ponding (V/N)	No										
Ponding (Y/N)	INO										

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		Brid	ge Cu	vert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			: 2605	, Rise (mm): 2880, Type: SPE)						
Fish Passage Adequacy		4	4	Beaver dam blocking passage						
Baffle		Х	Х							
(Type :)										
Waterway Adequacy			3							
Icing (Y/N)	No									
Silting (Y/N)	No			80% blockage at U/S beaver dam						
Drift (Y/N) Yes										
Barrel General Rating		3	3							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	E		Fast						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar			Х							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	Х							
Bevel End		6	6							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	250									
Scour Protection		3	3	6m dia x 1.5m deep scour hole and bevel undermined.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion			3							
Beavers (Y/N)	No									
Downstream End General Ratir	ng	3	3							
		S	tructur	e Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			4	Channel makes sharp turn to South at D/S end						
Bank Stability			4	Vertical bank @ D/S end - rock protection has sloughed down into scour hole or has been moved D/S by flow						
HWM (m below Top of Culvert)	1.0			[(Flowed full/93 overflow pipe to North, also ran at least 1/2 full.)						
Drift (Y/N)	ift (Y/N) No			93/07/27.] No HWM visible.						
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			4							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP		2012	50 cu.m Class II @ u/s & d/s ends									
REMOVE DRIFT ACCUMULATION		2012	Remove beaver dam									
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2012	Concrete Floor									
OTHER ACTION		2012	Consider	r liner in R4								
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		33.3/33.3		Sufficiency Rating (Last/Now) (%)		23.9/23.9	Est. Repl. Yr 2018		Maint. Reqd. (Y/N)		Yes	
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By						Date		E	Estimated Tota	timated Total 0		
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Ga		Garry Roberts				Previous Assistant's Name						
Next Inspection Date 1		16-Mar-2014 Pr				us Inspection Date 07-Oct-2010						
Inspection Cycle (Default) (months) 21												
Comment												