Bridge Inspection & Maintenance System (Web 2005)

					Bridg	e Culve	ert Insp	ection						
Bridge File Number 08533 -1 E			Bridge Culve			Form Type			CUL1					
Year Built			Lot No.			1								
Bridge or Town Name RIMBEY							Inspector Name			Owen Salava				
Located Over POTTER CK, 3.78.13.1, WA					RCRS-	ST	Inspector Class			BR CLS A				
Located On	40.777	,		-	Assistant Name									
Water Body Cl.					Assistant Class									
Navigabil. CI./Y					Inspection Date			27-Nov-2012						
Legal Land Location SE SEC 2			25 TWP 42 R			ntry By		Marcia Chavez						
Longitude, Latit			48, 52:38:23			Data Entry Date			13-Dec-2012					
Road Authority Alberta Tr							/er Name		John O'Brien					
Contract Main. Area CMA18		1	Tanoportation	(/ 11 /)			Review		·	04-Dec-2012				
Clear Roadway/Skew 8.2 /									Name	Andrew Smikle	26			
		2,370 / 2	011 (Δ)			Dept. Review Date			17-Dec-2012					
		RAU-209	· · ·											
		6	-110			Follow-Up By								
Bridge Culvert		-												
Number of Culver														
			Span	Rise (or	Dia.) Type		Length		Corr. Profile	PI./Slab	Shape			
	Barror		,puil		Dia.) Type			Longin			Thickness			
1	MAIN	2	RPP			21.3		152X51	3.0	PIPE ARCH				
Special Features														
Special Features Comment														
					114	1:1: /1		- ()						
Utility Attachments						lities (L	ocated	at)						
		to South.					Gas		Cross	Crossing 40m West.				
Telephone Power			th of o/l				Municipal							
Power 3 wire 15m North of c/l. Others No ID tag.									No					
Remarks		lay.					FIODIEI	m (Y/N)	INO					
Remarks				Δr	nroa	h Road	l/Emb	ankment						
				<u> </u>	Last	Now		ation of		ion				
Horizontal Alignment					7	7		ccess 75						
Vertical Alignment					7	7		of gradu						
Roadway Width (m)			8.200											
Embankment		2.0		7	3	Wide transverse crack in ACP West side of pipe, previously sealed. 3:1 then 2:1 at culvert.								
Sideslope (:1)		3.0			Bank failure around outlet; vertical bank face 3m from painted				n painted					
(Height of Co	(Height of Cover(m) : 1.7)							shoulder.						
Guardrail (Y/N)			No											
Approach Road / Embankment		t General Rating		7 3										
••				-										
Culvert Compo	onent						am End	ation of	Condi	ion				
	enent				Last Now		LAPIal		Sonul					
Direction End Treatment (Concrete, Steel, S Others, None)			STEEL		0		-							
Headwall					Х	X								
Collar					Х	X								
Wingwalls					X	X								
(Shape :)							1							
Cutoff Wall					Х	Х								

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	1	7	6	-
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			-
Above/Below (mm)	150		1	
Scour Protection		7	4	_
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 200)		1		
Scour/Erosion		7	4	Erosion at both shoulders, 0.5m back.
Beavers (Y/N)	No			
Upstream End General Rating		7	4	
		Bric	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm)		· •
Barrel Last Accessible Date	27-Nov-2012			
Special Features	l			
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	4	Roof seam goes right down the middle. Gap in plates, approx 3mm.
Measured Rise (mm)	1620			Unable to measure due to ice; rated on previous measurement.
Measured At Ring No.	3			(8.9%. 24Aug2009).
Sag (mm)	133			
Percent Sag	9			
Sidewall		N	2	Cracked at 3 o'clock (photo).
Measured Span (mm)	2530			
Measured At Ring No.	3			
Deflection (mm)	41			1.6%.
Percent Deflection	2			
Floor		N	N	Ice
Bulge (mm)	50			
Measured At Ring No.	3			
Abrasion (Y/N)	No			
Circumferential Seams		N	5	
Separation (mm)	0			
Longitudinal Seams		N	2	(Growth cracks from 2001. Remaining metal was 57mm from
Total No. of Cracked Rings	4			18/Oct/2006. 24Aug2009).
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	46			
Proper Lap (Y/N)	No			1
Longitudinal Stagger (Y/N)	No			1
Coating		N	N	(Minor superficial rust below waterline. 24Aug2009).
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	ulvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm		· _ •						
Fish Passage Adequacy		3	3	250mm outfall at outlet.						
Baffle		X	X							
(Type:)										
Waterway Adequacy		5	5	Icing from flow over ice.						
Icing (Y/N) Yes										
Silting (Y/N) No										
Drift (Y/N) No										
Barrel General Rating		2	2							
Larror Conoral Rading										
		D		ream End						
Culvert Component			Now	Explanation of Condition						
Direction				-						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar			X							
Wingwalls			X							
(Shape :)										
Cutoff Wall			X							
Bevel End			4	Bevel is unsupported for 1.0m.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	900									
Scour Protection		4	3	(Existing rock has washed 10m D/S from end of culvert because rock						
(Type : NONE)				was too small. Cantilever into a ripraped pond. 11Apr2011). Roadway bank slough around outlet.						
(Avg. Rock Size(mm) :)			-	, , , , , , , , , , , , , , , , , , , ,						
Scour/Erosion		4	3	(Scour hole 1.0m deep. 24Aug2009). Major outlet scour causing embankment failure.						
eavers (Y/N) No										
Downstream End General Rating			3							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)	1									
Alignment			7							
Bank Stability			5	Vertical banks d/s.						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading	DEGRADING			D/S only.						
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :										
Channel General Rating		7	7							

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			Maintenance Recommendations	dations				
Inspector Recommendations	Year	Inspector	Inspector Comments	Department Comments	nents	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTOFF	4							
REPAIR SEAMS								
OTHER ACTION	2013	Replace pipe.	ipe.					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION	_							
Structural Condition Rating (Last/Now) (%)	v) 22.2/22.2		Sufficiency Rating (Last/Now) (%)	32.3/17.1	Est. Repl. Yr 2013	Maint. Re	Maint. Reqd. (Y/N)	Yes
Special LRA emailed to Donald Suanders on 03Dec2012. Comments for Next Inspection	ld Suanders ol	n 03Dec201	2.	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	Owen Salava		Previous ,	Previous Assistant's Name				
Next Inspection Date	27-Aug-2014		Previous	Previous Inspection Date	11-Apr-2011			
Inspection Cycle (Default) (months)	21							
Comment								
-								

					Mainte	enance Rec	commend	lations							
Inspector Recom		Year	Inspecto	or Comments			Department C		Target Yea	r Est	. Cost	Cat #			
SHOTCRETE RE															
PLACE ADDITIO	NAL RIP RAP														
REMOVE DRIFT	ACCUMULATION														
INSTALL CONCE	RETE/STEEL LINING	G													
INSTALL STRUTS															
INSTALL CONCRETE COLLAR/CUTOFF															
REPAIR SEAMS												2014			
OTHER ACTION			2013	Replace	pipe.			Programmed							
OTHER ACTION															
OTHER ACTION															
OTHER ACTION								_		_					
Structural Cond (%)	low)	22.2/22.	.2	Sufficiency Ra (%)	ting (Last/N	Now) 3	32.3/17.1	Es	st. Repl. Yr	2013	Maint. I	Reqd. (Y/N)	Yes	
Special LRA emailed to Donald Suanders on 03Dec2012. Next Inspection								Department Comments	Curre	Currently in PMA for replacement in 2014. DA					
Maintenance Rev	Darron	Ahlsted	t				Date	04-Ma	ar-2013		Estimated To	otal 0			
Proposed Long-T															
On 3-Year Program (Y/N)															
Proposed Action															
Previous Inspecto	or's Name	Owen Salava Previous					Assistant's Name								
Next Inspection	Date	27-Aug	9-2014				Previous	s Inspection Date 11-Apr-2011							
Inspection Cycle	(Default) (months)	21													
Comment															