					Brida	e Culve	ert Insp	ection					
Bridge File Nu	Bridge File Number 77835 -1 Bridge Culvert							Гуре	CULM	CULM			
Year Built		1974					Lot No	••	2				
Bridge or Towr	n Name	SUNSE	SET HOUSE					tor Name	Russel Vande	Russel Vanderschaaf			
Located Over							tor Class	BR CLS B					
SWEATH			THOUSE CREEK, 8.10.58.7.25.2.3,					ant Name					
Located On								ant Class					
Water Body CI	./Year						Inspec	tion Date	24-Aug-2010				
Navigabil. CI./							Data Entry By		Theresa Lacu	Theresa Lacusta			
Legal Land Lo		C 18 TWP 70 F	RGE 19 W	/5M		Data Entry Date		20-Oct-2010	20-Oct-2010				
Longitude, Lati						Reviev	ver Name		Arnold Assenheimer				
Road Authority	/	Alberta -	Transportation	(AIT)			Reviev	v Date	20-Sep-2010				
Contract Main.	Area	CMA03					Dept. Reviewer Name		· · ·	an			
Clear Roadway	y/Skew	9.5 / 30	deg. (RHF)				· · ·	Review Date	23-Nov-2010				
AADT/Year							Follow	-Uр Ву					
Road Classific	ation	RCU-20	9-110										
Detour Length	(km)	50											
Bridge Culver													
Number of Cul	1		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-	-	1200		MP		43.7	125X26	2.8	ROUND		
2	MAIN	-	-	1200	MP			43.7	125X26	2.8	ROUND		
Special Featur	es												
Special Featur	es Com	ment											
								- 1)					
Litility Attachm	onto				Uti	liities (L	ocated	at)					
Utility Attachm Telephone	W. R/	\\/					Gas						
Power			re, 2 wire north				Munici	nal					
Others	50m	1/VV 3 WII	e, 2 wire noru	1				m (Y/N) No					
Remarks	3011												
Remarks				Α	oproad	ch Road	d / Fmb	ankment					
					Last	Now		nation of Con	dition				
Horizontal Alig	nment				5	5	Farm approach on east side.						
Vertical Alignm	nent			9	9	Farm a	Farm approach 50m north.						
Roadway Widt	h (m)		9.500										
Embankment					7	7							
Sideslope (• •	3.0				-						
(Height of Co		2)	No										
Guardrail (Y/N)		No										
Approach Roa	ad / Eml	bankmen	nt General Rat	ting	5	5							
Culvert Com	onort						am End		dition				
Culvert Comp (Pipe # : 1, Sp		a: Prima:	ry Span)		Last	NOW	_ ⊂ xpiar	nation of Con	uition				
Direction	an ryp	c. i mid			E		North p	nine					
End Treatment Others, None)	t (Concr	ete, Steel	I, STEEL					איר איר					
Headwall					X	X							
Collar					X	X							

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	4	0.8mW x 1.2mD x20mL scour
(Type : NONE)				u/s of both bevels.
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	4	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	4	
		Brid	d <u>ge Cu</u>	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	24-Jul-2007			7m from U/S, due to silt/water level.
Special Features			_	
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		3	3	Silt on floor unable to measure rise.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	136			Sag est.
Percent Sag	11			
Sidewall		3	3	Deflection (Photo)
Measured Span (mm)	1336			
Measured At Ring No.				
Deflection (mm)	136			
Percent Deflection	11			
Floor		3	3	Rusted out U/S (Photo)
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			2	150mm void at first coupler-photo
Separation (mm) 50				
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)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77835 -1 Bridge Culvert

		Brid		lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa			, Rise (mm): 1200, Type: MP)
Coating	<u></u> ,	3	3	Rusted holes on floor. (Photo)
Corrosion By Soil (Y/N)	No		U	
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
	INO			
Fish Passage Adequacy		6	6	
Baffle		X	Х	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	2	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	Span)			
Direction		W		North pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		X	Х	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Water 0.5m below crown and grassed in.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		5	5	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratir	ıg	5	5	
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		E		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
			-	1

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End	1	6	6	-
Heaving (mm)				
Invert Above/Below Stream Bed				-
Above/Below (mm)	200			
Scour Protection		4	4	Bevel undermined for 2m-photo 0.8mW x1.2mD x20mL scour u/s of both pipes-photo
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN. S			, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	24-Aug-2010	-pun (i	,.	8m from u/s only due to silt and water.
	247/09/2010			
Special Features				
Special Feature				
(Type :)				_
Special Feature				
(Туре :)				
Roof		3	3	Silt on floor unable to measure rise.
Measured Rise (mm)				_
Measured At Ring No.				- - -
Sag (mm)				Est.
Percent Sag	13			
Sidewall		3	3	Deflection (Photo)
Measured Span (mm)	1355			@ 1/4 u/s
Measured At Ring No.				
Deflection (mm)	155			
Percent Deflection	13			
Floor		4	4	Pitting rust.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		3	3	Signs of damage near cl.
Separation (mm)	150			150mm gap at 10:00
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77835 -1 Bridge Culvert

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Coating		4	4	Pitting rust bottom 1/4.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG ZERO									
Ponding (Y/N)	No								
Fish Passage Adequacy		6	6						
Baffle		Х	Х						
(Туре :)		1	-						
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		3	3						
		ח	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	arv Span)								
Direction		W		South pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		X	Х						
Bevel End		N	N	Water 0.5 below crown and grassed in.					
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection		5	5						
(Type : NONE)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		5	5						
Beavers (Y/N)	No		1						
Downstream End General Ratin	ıg	5	5						
		s	tructu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)			<u>.</u>						
Alignment		4	4	Water eroding around south pipe u/s.					
	<u> </u>								
				Drop structure. NW of North pipe.					

Structure Usage								
		Last	Now	Explanation of Condition				
Bank Stability			6					
HWM (m below Top of Culvert)								
Drift (Y/N)	No			HWM not visible				
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	eavers (Y/N) No							
(Fish Compensation Measure 1	NONE)							
(Fish Compensation Measure 2	NONE)							
Channel General Rating		4	4					

Maintenance Recommendations													
Inspector Recommendations		Year	Inspecto	r Comments		Department Com	iments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	DFF												
REPAIR SEAMS													
OTHER ACTION		2011	Replacer	ment									
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No	ow)	33.3/22.	2	Sufficiency Rating (%)	g (Last/Now)	46.9/41.9	Est. Repl. Yr 2011		Maint. Reqd. (Y/N)		Yes		
Special Comments for Next Inspection					Department Comments								
Maintenance Reviewed By						Date		I	Estimated Total	0			
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Brian Pientsch					Previous Assistant's Name Tim Miskiman							
		24-May-2015				Previous Inspection Date 24-Jul-2007							
Inspection Cycle (Default) (months)	57												
Comment													