					Brida	e Culve	ert Inspe	ection					
Bridge File Numb	ber	09535 W-1 Bridge Culvert				o ourre	Form Type		CULM				
Year Built	-	1961						Lot No.		1			
Bridge or Town N	lame						Inspector Name		Todd Warshawski				
Located Over		LITTLE	SUNDANCE C RCRS-ST	REEK, 8.1	11.107	7.30.1,	Inspector Class		BR CLS B				
Located On			1 46.006				Assistant Name						
Water Body CI./Y	'ear						Assistant Class		00 Aug 2012				
Navigabil. Cl./Yea							Inspection Date		09-Aug-2012	to.			
Legal Land Locat	tion	NW SE	C 8 TWP 53 R	GE 18 W5	М		Data Entry By Data Entry Date			Theresa Lacusta			
Longitude, Latitud	de	-116:37	:11, 53:34:12				Reviewer Name		21-Aug-2012 Eric Carcoux				
Road Authority		Alberta	Transportation	(AIT)			Review Date		21-Aug-2012				
Contract Main. A	rea	CMA13							Brent Herrick				
Clear Roadway/S	Skew	13.7 /					Dept. Reviewer Name Dept. Review Date		22-Aug-2012				
AADT/Year		6,080 /	2011 (A)				Follow-			22-Aug-2012			
Road Classification	on	RAD-41	12.4-120					ор Бу					
Detour Length (ki	m)	1											
Bridge Culvert I	nf <mark>or</mark> m	ation											
Number of Culve	rts		2			1							
Pipe # B	arrel		Span	Rise (or E	Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape	
1 M	1AIN		-	2740		SP		44.5		152X51	3.0	ROUND	
2 M	1AIN		-	2740		SP		44.5		152X51	3.0	ROUND	
Special Features													
Power Others	North r/w.					ilities (L	Gas Municipal Problem (Y/N)						
Remarks	File ta	g on Ea	st pipe (North).	۸n		h Door	l / Embo	n km o n t					
						Now	I / Embankment Explanation of Condition						
Horizontal Alignment					Last 7	7	In small gradual sag curve with gradual curve to the east.						
Vertical Alignmer					7	7							
Roadway Width (13.700										
Embankment					6	6							
Sideslope (:1)		3.0										
(Height of Cove	er(m) :	4.2)											
Guardrail (Y/N)			Yes										
Approach Road	/ Emb	bankme	nt General Rat	ing	7	7							
						Upstre	am End						
Culvert Compon					Last	Now	Explan	ation of 0	Condit	ion			
Culvert Compon (Pipe # : 1, Spar		e: Prima	nry Span)		Last		1		Condit	ion			
Culvert Compon (Pipe # : 1, Spar Direction End Treatment (0	า Туре						Explan East pi		Condit	ion			
Culvert Compon (Pipe # : 1, Spar Direction	า Туре				Last		1		Condif	ion			
Culvert Compon (Pipe # : 1, Spar Direction End Treatment (C Others, None)	า Туре				Last N	Now	1		Condit	ion			
Culvert Compon (Pipe # : 1, Spar Direction End Treatment (C Others, None) Headwall	า Туре				Last N X	Now	1		Condif	ion			

	1	1		eam End						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)		_							
Cutoff Wall			X							
Bevel End		6	4							
Heaving (mm)	700									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		4	4	Loss of fill around bevel & barrel. Rock and natural not providing						
(Type : RIP RAP)				protection between the two pipes. Grassing and scanty rocks inadequate to protect loss of fill around						
(Avg. Rock Size(mm) : 300)				bevel end.						
Scour/Erosion			4	Bevel & barrel projecting 4m.						
Beavers (Y/N)	Yes			Small beaver dam accross inlet.						
Upstream End General Rating		4	4							
		Bri	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	n):	, Rise (mm): 2740, Type: SP)						
Barrel Last Accessible Date	05-Dec-2001			East pipe. Water level prevents access.						
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		N	N	(Measured 2650 x 2850 @ 1/3 L. 2001/12/05)						
Measured Rise (mm)										
Measured At Ring No.				(.9% - 2001/12/05)						
Sag (mm)	27									
Percent Sag										
Sidewall		N	N							
Measured Span (mm)										
Measured At Ring No.										
Deflection (mm)	40			(1.5% - 2001/12/05)						
Percent Deflection										
Floor		N	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	N							
Separation (mm)	0									
Longitudinal Seams		N	N							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)				1N stagger.						
Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
Coating		N	N	Superficial rust below waterline. Rust stains through seams on lower						
Corrosion By Soil (Y/N)	Yes			half. Water approx 1.2m deep17-Nov-2008						
Corrosion By Water (Y/N)										

Bridge Inspection & Maintenance System (Web 2005)

09535 W-1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 2740, Type: SP)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy	Fish Passage Adequacy		5	(Hydraulic jump in 2nd ring from U/S end. Rock wiers at entrances. 20/July/2005) (300 mm dia rock is piled up inside barrel. 2003/10/15)						
				(300 mm dia rock is piled up inside barrel. 2003/10/15)						
Baffle		X	X							
(Туре:)										
Waterway Adequacy		6	5							
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	Yes									
Barrel General Rating		N	N	(G.R. was "7" from 20July/2005 but no access to barrel since 2001.)						
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	v Span)									
Direction		S		East pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		Х	X							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		5	5							
Heaving (mm)	400									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		5	5							
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 150)		1								
Scour/Erosion	1	5	5							
Beavers (Y/N)	No		-							
Downstream End General Ration	ng	5	5							
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		N		West pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		X	X							

			Upstre	eam End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	dary Span)			
Bevel End		6	4	Bevel projects from fill.
Heaving (mm)	700			
Invert Above/Below Stream Bed				
Above/Below (mm)	100			
Scour Protection		4	4	Loss of fill around bevel & barrel projecting 5m. Inadequate scour
(Type : RIP RAP)				protection.
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	
Beavers (Y/N)	Yes			Beaver dam across bevel 0.3 m high.
Upstream End General Rating		4	4	
opstream End General Rating				
				Ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, L		Span (n	nm):	, Rise (mm): 2740, Type: SP)
Barrel Last Accessible Date	05-Dec-2001			West pipe. Water level prevents access. (Measured 2690 x 2830 at 1/3L. 2001/12/05)
Special Features				
Special Feature				
(Туре :)			_	
Special Feature				
(Туре :)				
Roof		N	N	(Measured 2690 x 2830 at 1/3L. 2001/12/05)
Measured Rise (mm)				
Measured At Ring No.				(0.2%)
Sag (mm)	47			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				(0.8%)
Deflection (mm)	80			
Percent Deflection	00			-
		N	N.I.	Linder water
Floor	0	N	N	Under water.
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams		N	N	-
Separation (mm)	0			
Longitudinal Seams		N	N	(Longitudinal seam visible along roof only. 08/Mar/2007)
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N stagger.
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Superficial rust below waterline. 2001/12/05)
Coaling				· · ·
	No			
Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	No Yes			-

Bridge Inspection & Maintenance System (Web 2005)

09535 W-1 Bridge Culvert

		Brid	dqe Cu	Ivert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN,	Span (r	nm):	, Rise (mm): 2740, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy			5	(Hydraulic jump in 2nd ring from U/S end. Rock wiers at entrances. 20/July/2005) (300mm dia rock is piled up inside barrel. 2003/10/15)				
Baffle		X	Х					
(Туре :)								
Waterway Adequacy		6	5					
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	Yes							
Barrel General Rating		N	N	(G.R. was "7" from 20/July/2005, roof & sidewall govern.)				
Oschward Oscillar an and				ream End				
Culvert Component	long Snon)	Last	NOW	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)	<u> </u>						
Direction	OTEEL	S		West pipe.				
End Treatment (Concrete, Steel, Others, None)	SIEEL							
Headwall	1	X	X					
Collar		X	X					
		^	^					
Wingwalls		X	Х					
(Shape :)								
Cutoff Wall			X					
Bevel End		5	5					
Heaving (mm)	300							
Invert Above/Below Stream Bed	BELOW			Under ice.				
Above/Below (mm)	100							
Scour Protection		5	5					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 150)								
Scour/Erosion		5	5					
Beavers (Y/N)	No							
			1					
Downstream End General Ration	ng	5	5					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		6	7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes							
Channel Bottom	NONE			Small beaver dam at inlets.				
Degrading/Aggrading Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :								
Channel General Rating		6	7					
Channel Ceneral Matility		0	· '					

				Maintenance Re	commend	ations					
Inspector Recommendations	Y	'ear	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC)FF										
REPAIR SEAMS											
OTHER ACTION		012		r, level 2 inspection/assess.							
OTHER ACTION				beaver dam at inlets.							
OTHER ACTION	20	013	Excavate and reinstall inlet bevels with concrete end treatments.								
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 5	5.6/55.0	6	Sufficiency Rating (Last/I (%)	Now) 5	55.7/53.1	Est. Repl. Yr	2028	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection Dewater to complete level 2 inspection/assessment before completing any repairs.					/ repairs.	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 Todd Warshawski Previous					Previous A	Assistant's Name					
Next Inspection Date	09-May-2	2014			Previous I	nspection Date					
	21										
Comment											