Bridge Culvert Inspection													
Bridge File Number	01635 -1	01635 -1 Bridge Culvert				Form Ty			CUL1				
Year Built	1960	1960				Lot No.			1				
Bridge or Town Nan	ne STONY I	PLAIN				Inspector Name			Todd Warshawski				
Located Over	ATIM CF	REEK, 6.65.8,	WATERC	CRS-ST	<u> </u>	Inspector Class			BR CLS B				
Located On	16A:14 L	_1 13.760;16A	14 R1 14	1.287		Assistant Name							
Water Body Cl./Yea	r					Assistant Class							
Navigabil. Cl./Year						Inspection Date		05-Jul-2012					
Legal Land Location	n SE SEC	6 TWP 53 RG	E 27 W4	М		Data Entry By T			Theresa Lacu	Theresa Lacusta			
Longitude, Latitude	-113:57:5	52, 53:32:28				Data Entry Date			10-Jul-2012				
Road Authority	Alberta T	ransportation	(AIT)			Reviewer Name			Eric Carcoux				
Contract Main. Area	CMA11				Review Date				09-Jul-2012				
Clear Roadway/Ske	w 34.6 /				Dept. Reviewer Name			Brent Herrick					
AADT/Year	26,920 /	2011 (A)				Dept. Review Date		17-Jul-2012					
Road Classification	RAD-616	5.6-130			Follow-Up By								
Detour Length (km)	Detour Length (km) 1												
Bridge Culvert Information													
Number of Culverts	1												
Pipe # Barr	el S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAI	N 1	429	1575		SPE		76		152X51	3.5	ELLIPSE		
Special Features	\	/ERT STEEL \$	STRUTS										
Special Features Comment													
				+;	litios (l	ocated	at)						
Litility Attachments				01			aty						
Telephone Sr	/w	Gas											
Power		<i>N</i> .					nal						
Others							m(Y/N)						
Remarks													
			Α	pproad	ch Road	d / Emba	ankment						
				Last	Now	Explan	ation of	Condit	tion				
Horizontal Alignment			8	8	Intersection to east. 6 lane divided highway.								
Vertical Alignment	Vertical Alignment			8	8								
Roadway Width (m) 34.600				17.3 W	BL, 17.3	EBL							
Embankment	Embankment			8	8								
Sideslope (:1)		4.0				1							
(Height of Cover(r			1										
Guardrail (Y/N)		No											
Approach Road / E	mbankmen	t General Rat	ing	8	8								
					Upstre	am End							
Culvert Componen	t			Last	Now	Explan	ation of	Condit	tion				
Direction				S									
End Treatment (Cor Others, None)	ncrete, Steel,	, STEEL											
Headwall			Х	Х									
Collar			X	Х									
Wingwalls			X	Х									
(Shape:)					-	1							
Cutoff Wall											1		

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		6	4	Wire mesh screen over inlet.						
Heaving (mm)	150			Bevei top twisted and turned.						
Invert Above/Below Stream Bed	ABOVE			-						
Above/Below (mm)	100									
Scour Protection		5	5	-						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 250)		1	1							
Scour/Erosion		5	5							
Beavers (Y/N)	No		1							
Upstream End General Rating		5	4							
Culvort Component		Bric	ige Cu	Vert Barrel						
(Dipo # : 1 Primary Span Loop	tion Code: MAIN Sna	Last	NOW). 1420	Explanation of Condition						
Pipe # . 1, Primary Span, Local		<u>in (mm</u>): 1429							
Barrei Last Accessible Date	05-JUI-2012			Rings 1-15 not accessible.						
Special Features										
Special Feature			6	Located 1/3L of D/S end. Steel 3" x 4" and 3" x 3" tubing.						
(Type : VERT STEEL STRUTS)										
Special Feature										
(Туре :)										
Roof		3	3							
Measured Rise (mm)	1480									
Measured At Ring No.	18									
Sag (mm)	95									
Percent Sag	6									
Sidewall		2	2	See longitudinal seam comment.						
Measured Span (mm)	1467									
Measured At Ring No.	18									
Deflection (mm)	38									
Percent Deflection	3									
Floor		5	5							
Bulge (mm)	0									
Measured At Ring No.				4						
Abrasion (Y/N) No										
Circumferential Seams		5	5	-						
Separation (mm)	0									
Longitudinal Seams	I	2	2	Rings 16, 18, 20 & 22 cracked. Ring 18, 20 & 22 cracked both sides						
Total No. of Cracked Rings	4			with zornm of steel between cracksphoto						
Total No. of Rings with Two Cracked Seams	3			R18 cracks at 2 o'clock and 8 o'clock. Rings 1-15 not inspected.						
Min. Remaining Steel Between Cracks (mm)	25									
Proper Lap (Y/N)	No			-						
Longitudinal Stagger (Y/N)	Yes									
Coating		4	4	Superficial rust on floor. Soil side corrosion d/s end.						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1429, Rise (mm): 1575, Type: SPE)										
Fish Passage Adequacy			3	Perched outlet.						
Baffle		Х	Х							
(Type:)										
Waterway Adequacy			4	Evidence pipe is too small due to scour hole @ D/S end.						
Icing (Y/N)	No			Drift and debris caught in struts.						
Silting (Y/N)	Yes									
Drift (Y/N)	Drift (Y/N) Yes									
Barrel General Rating			3	General rating raised one point on account of struts.						
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction	ction									
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall	Cutoff Wall									
Bevel End	Bevel End			Superficial corrosion.						
Heaving (mm) 100										
Invert Above/Below Stream Bed	vert Above/Below Stream Bed ABOVE									
Above/Below (mm) 300										
Scour Protection		4	4	Bevel undermined about 1m.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 150)			1							
Scour/Erosion		4	4	Scour hole approx 4 x 10 x 1m - photo.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	4							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)	1									
Alignment	Alignment			Channel turns 45deg at inlet.						
Bank Stability			5	Vertical cut bankOct, 2010						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading	DEGRADING			•						
Beavers (Y/N)	No									
(Fish Compensation Measure 1 : NONE)				4						
(Fish Compensation Measure 2 :	NONE)		1							
Channel General Rating			5							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	r Comments		Department Com		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION		2012	Remove drift from barrel.								
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF		DFF										
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION	OTHER ACTION											
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			33.3/33.3		Sufficiency Rating (Last/Now) (%)		29.8/29.3	Est. Repl. Yr	2015 Maint. R		qd. (Y/N)	Yes
Special Comments for Next Inspection					2012	Department Comments						
Maintenance Reviewed By						Date		E	Estimated Tota	0		
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Shane H		nane Hall Pr			Previous	ious Assistant's Name						
Next Inspection Date 05-Ap		05-Apr	15-Apr-2014 Pr			Previous	us Inspection Date 06-Oct-2010					
Inspection Cycle (Default) (months) 21		21										
Comment												