					Brido	ae Culve	ert Insn	ection					
Bridge File Nur	mher	76675 -2 Bridge Culvert				je Gurve	Ilvert Inspection Form Type		CULE	CULE			
Year Built 2008						Lot No.			4				
Bridge or Town Name BREMNER			JER			Inspector Name			Todd Warshawski				
			IN CREEK, 6.74, WATERCRS-ST			Inspector Class		BR CLS B					
						Assistant Name		DIX OLO D	BIX GEO B				
Water Body Cl./Year				,			Assistant Class						
					Inspection Date		07-Jan-2013	07 lon 2012					
Navigabil. Cl./Year Legal Land Location NE SEC 13			12 TMD 52 D						Lisa Fairhurst				
							Data Entry By Data Entry Date		22-Jan-2013				
Longitude, Latitude -113:14:47						Reviewer Name							
Road Authority Alberta T Contract Main. Area CMA09						Review Date		17-Jan-2013	Eric Carcoux				
		CIVIAUS					Dept. Reviewer Name						
Clear Roadway AADT/Year	//Skew	10.770	(2011 (A)										
	-4:		2011 (A)					Review Date	23-Jan-2013				
Road Classifica		RFD-41	2.4-130				Follow	-ор ву					
Detour Length		1											
Bridge Culver			4										
Number of Cul			0	D: / [- - \	T		L ava auth	O Dfil-	DI /OI-I	01		
Pipe #	Barrel		Span	Rise (or [Jıa.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	U/S	- 3990 8		SP		49.9	152X51		ROUND				
1	MAIN		-	3950		SSP		85.5		4.0	ROUND		
1	D/S		-	3990		SP		38.3	152X51		ROUND		
Special Feature	es												
Special Feature	es Comr	ment											
					114	::::: /!		-()					
Litility Attacks					Ut	ilities (L	ocated	at)					
Utility Attachme		101 /					0						
Telephone E and W r/w							Gas	o o l					
Power E r/w						Municip							
	Others Lights & sign structure						Problei	m (Y/N) No	1				
Remarks				Λn	prog	oh Boos	l / Emb	ankmant					
				i i	Last	Now		ankment	adition				
Horizontal Align	nment				<u> </u>	7	Explanation of Condition Hwy 16 overpass 100m N., access roads 20m S.						
Horizontal Alignment Vertical Alignment			7	7	Sag cu	Sag curve 150m S.							
Roadway Widtl			28.000										
Noadway Widt	(111)		20.000										
Embankment					7	7							
Sideslope (:1)		3.0											
(Height of Co	· ·	4)											
Guardrail (Y/N))		Yes										
Approach Roa	ad / Emb	oankmer	nt General Rat	ing	7	7							
						Upstre	am End						
Culvert Component					Last			nation of Cor	ndition				
Direction				E	11044			······					
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall				9	9	Narrow	Narrow flex cracks						
Collar				9	N	Snow covered							
Wingwalls				Х	X								
(Shape:)													

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		9	9	Lower half not rated
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		9	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
Upstream End General Rating		9	9	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, I	Rise (mm): 3990, Type: SP)
Barrel Last Accessible Date	07-Jan-2013			u/s and d/s sections
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	Rise not measured due to ice
Measured Rise (mm)				Sag est at less than 5%
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	4015			
Measured At Ring No.	10			
Deflection (mm)	25			
Percent Deflection	0			
Floor		N	N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	8	upper 2/3 viewed.
Separation (mm)	0			
Longitudinal Seams		8	8	upper 2/3 viewed.
Total No. of Cracked Rings	0			appor 276 violeds.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating	. 55	9	8	upper 2/3 viewed.
Corrosion By Soil (Y/N)	No	9	U	appor 270 viewed.
	Yes			
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

		Brio	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: U/S, Span	(mm):	, F	Rise (mm): 3990, Type: SP)
Ponding (Y/N)				
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			(400mm silt-May,2009)
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel Extension General Ratin	g	8	8	
		Dric	dae Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa			, Rise (mm): 3950, Type: SSP)
Barrel Last Accessible Date	07-Jan-2013	(<i>,</i> .	Liner plate
Darrer Last Accessible Date	07-5811-2015			Linei piate
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Noticeble seg in lest 0m d/s, lesks to be from grouting
Measured Rise (mm)				Noticable sag in last 8m d/s, looks to be from grouting. Rise not measured due to ice
Measured At Ring No.				
Sag (mm)				
Percent Sag			1	
Sidewall		8	7	10m from d/s section
Measured Span (mm)	4047			
Measured At Ring No.				
Deflection (mm)	97			
Percent Deflection	2			<u>.</u>
Floor		N	N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N) Circumferential Seams		8	8	unner 2/2 increased
Separation (mm)		0	0	upper 2/3 inspected.
Longitudinal Seams		8	8	upper 2/3 inspected.
Total No. of Cracked Rings		0	0	upper 2/3 inspected.
Total No. of Rings with Two				
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	Stains from grout leakage at seams
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid	dge Cu	lvert Barrel				
•		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 3950, Type: SSP)				
Ponding (Y/N)	No							
Fish Passage Adequacy			8					
Baffle			Х					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No			(400mm silt-May 2009)				
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating		7	7					
		D	ownstr	ream End				
Culvert Component		Last		Explanation of Condition				
Direction	<u> </u>	W	,					
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		X	X					
Bevel End		9	9					
Heaving (mm)								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	600		1					
Scour Protection		9	9					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)		T -	1 -					
Scour/Erosion		9	9					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	9	9					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		1	1					
Alignment		8	8					
Bank Stability		8	8					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No			(Ice 1.6m from obvertmar/11)				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	8					

			Mainten	ance Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 77.8/7	77.8	Sufficiency Rating (Last/Now) (%)		83.5/83.5	Est. Repl. Yr	2060	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Todd Warsha	ıwski		Previous	s Assistant's Name					
Next Inspection Date	07-Oct-2014			Previous	s Inspection Date	17-Mar-2011				
Inspection Cycle (Default) (months)	21									
Comment										