					Brido	e Culve	ert Inspe	ction					
Bridge File Number 07687 -1 Bridge Culvert					Dirag	,o our	Form Ty			CUL1			
Year Built		1972					Lot No.	31					
Bridge or Towr	n Name	YOUNG	STOWN				Inspector Name			Jason Saly			
Located Over			DER TRIBUTA	ARY TO E	BLOOE)	Inspector Class		BR CLS A				
		INDIAN	CREEK, 3.9.4.	1, WATE	RCRS	S-ST	Assistant Name						
Located On		884:10 C	21 13.862				Assistant Class						
Water Body CI							Inspection Date		23-Nov-2010				
Navigabil. Cl./							Data En			Marcia Chavez			
Legal Land Lo		SW SEC	27 TWP 27 R	GE 9 W4	М		Data Entry Date		05-Jan-2011				
Longitude, Lati			01, 51:20:05				er Name		John O'Brien				
Road Authority	<u>'</u>	Alberta 7	Fransportation	(AIT)			Review	Review Date		11-Dec-2010			
Contract Main.		CMA22					Dept. R	eviewer N	lame	Chris Black			
Clear Roadway	y/Skew		deg. (LHF)				Dept. Review Date		12-Jan-2011				
AADT/Year		530 / 200	` '				Follow-Up By						
Road Classific		RCU-210	0-110										
Detour Length		100											
Bridge Culver													
Number of Cul	1	1	1	D: /	D: \	-				0 5 :::	DI (C)	01	
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN 2281 2586				SPE			42.8		152X51	3.5	ELLIPSE	
Special Features VERT TIMBER STRUTS					 3					102/10	10.0	,	
Special Features Comment													
opoolal i catal	00 00111	mont											
					Ut	ilities (L	Located a	at)					
Utility Attachm	ents												
Telephone	West	side.					Gas	3	80m \	West-East cent	ral gas		
Power	90m t	o E - 1 wi	re.				Municip	al					
Others							Problem	n (Y/N)	No				
Remarks													
				A			d / Emba						
								ation of C		tion			
Horizontal Alig					8	8	Farm ac	cess nort	th				
Vertical Alignm			To 500		8	8							
Roadway Widt	h (m)		9.500										
Embankment					7	N	Snow co	overed.					
Sideslope (_	:1)		3.2										
(Height of Co		: 3.4)											
Guardrail (Y/N)			No										
<u> </u>													
Approach Roa	ad / Eml	bankmen	t General Rati	ing	7	8							
						Unstre	am End						
Culvert Comp	onent				Last			ation of C	Condi	tion			
Direction	J V III				W								
End Treatment	t (Concr	ete, Steel	STEEL										
Others, None)	(, 2.001											
Headwall					Х	X							
Collar					Х	Х							
Wingwalls					X	X							
(Shape:													
Cutoff Wall					X	X							

07687 -1 Bridge Culvert

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Explanation of Condition
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
	150			
Above/Below (mm) Scour Protection	150		l NI	Change acrossed
		6	N	Snow covered.
(Type:)				
(Avg. Rock Size(mm):)			T	
Scour/Erosion		6	N	
Beavers (Y/N)	No		-	
Upstream End General Rating		6	6	
		Brid	dao Cu	lvert Barrel
Culvert Component				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			
Barrel Last Accessible Date	23-Nov-2010	Span (IIII	. <i>j</i> . <u></u>	, (). 2000; 13po. 01 L)
Dailer Last Accessible Date	23-1NUV-2010			
Special Features				
Special Feature		6	6	150 x 200 struts on 1.2m o/c
(Type: VERT TIMBER STRUTS)			
Special Feature				
(Type:)		'		
Roof		5	5	Rise could not be measured due to dirt & ice.
Measured Rise (mm)	2430			
Measured At Ring No.	6			
Sag (mm)	156			
Percent Sag	6			
Sidewall		2	2	Cracked seam runs through sidewall. Span measured at R1=2265
Measured Span (mm)	2477			16mm; R3=2432 151mm; R5=2460 179mm; R7=2477=8.6%;
Measured At Ring No.	7			R9=2344 63mm
Deflection (mm)	196			
Percent Deflection	9			
	9		l NI	Covered by dist 0 inc
Floor		5	N	Covered by dirt & ice.
Bulge (mm)	0			
Measured At Ring No.	No			
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams	I	2	2	no change
Total No. of Cracked Rings	6			Ring 6 - no change. All crakced seams on north wall. cracks are
Total No. of Rings with Two Cracked Seams	0			marked for future reference. Not changed.
Min. Remaining Steel Between Cracks (mm)	47			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	5	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

		Bric		vert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2281	, Rise (mm): 2586, Type: SPE)
Fish Passage Adequacy		Х	X	
Baffle		X	X	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	1 point rating bump for struts
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		Sloped section 3.05m long
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)				
Scour Protection		5	N	(minor erosion. 28Jan2009).
(Type:)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	(Erosion @ bevel end of culvert and embankment eroding. 28Jan2009).
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	GR for scour from 28Jan2009.
		9	tructur	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :				
Channel General Rating		8	8	

			Maintenanc	Maintenance Recommendations	ations					
Inspector Recommendations		Year	Inspector Comments		Department Comments	nents	Targ	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP	0									
REMOVE DRIFT ACCUMULATION	TION									
INSTALL CONCRETE/STEEL LINING	LINING									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF	R/CUTOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	(Last/Now)	33.3/33.3	3 Sufficiency Rating (Last/Now) (%)		43.8/43.8	Est. Repl. Yr	2020	Maint. Reqd. (Y/N)		o _N
Special Cracked sear Comments for Next Inspection	ams remain uı	nchanged.	Cracked seams remain unchanged. No action required for 2 rating.		Department Comments					
Maintenance Reviewed By					Date		Estima	Estimated Total	0	
Proposed Long-Term Strategy		.12.16 Stru	2008.12.16 Strutted, shape good. Repair if required in future. Culvert should be good until 2032. RS	ed in future. Cu	ulvert should be goo	d until 2032. RS				
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry	Garry Roberts		Previous	Previous Assistant's Name					
Next Inspection Date	23-Fe	23-Feb-2014		Previous	Previous Inspection Date	28-Jan-2009				
Inspection Cycle (Default) (months)	nths) 39									
Comment										

			Maintenance Re	commend	dations					
Inspector Recommendations		Year	Inspector Comments		Department C	omments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	ON									
INSTALL CONCRETE/STEEL LI	NING									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/	CUTOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (La (%)	st/Now)	33.3/33.	3 Sufficiency Rating (Last/	Now)	43.8/43.8	Est. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	No
Special Cracked seams remain under the Comments for Next Inspection		nchanged	. No action required for 2 rating.		Department Comments	Continue to monitor	the crack	ed seams.		
Maintenance Reviewed By And		Andrew Smikles Date 12-Dec-2011 Estimated Total 0								
Proposed Long-Term Strategy 20		12.16 Stru	utted, shape good. Repair if required	in future.	Culvert should I	pe good until 2032. R				
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Ga		Roberts		Previous	us Assistant's Name					
Next Inspection Date	23-Fel	b-2014		Previous	Inspection Date	e 28-Jan-2009				
Inspection Cycle (Default) (month	ns) 39									
Comment										