				Br	anhi	Culve	ert Inspec	tion					
Bridge File Nur	nher				uge	Cuive	Form Type		CULM				
Year Built		1968	. Bridge Garre	Blidge Culvert						4			
Bridge or Town	Name				Lot No. Inspector Name			Garry Roberts					
Located Over	TTUTTO		NOSE CREEK,	Inspector Class			BR CLS A						
Located Over			CRS-ST	Assistant Name			DIX OLG A						
Located On		567:02	C1 14.474	Assistant Class									
Water Body Cl.						n Date		25-Jul-2012					
Navigabil. Cl./Y	'ear			Data Ent			Lauren Korte						
Legal Land Loc	ation	31 TWP 26 R	Data Ent	-		30-Aug-2012							
Longitude, Latitude -114:15:4			:48, 51:16:09	Reviewer Name			Tom Carey						
Road Authority Alberta T			Transportation	Review Date			07-Aug-2012						
Contract Main.	Area	CMA29					Dept. Reviewer Name			-			
Clear Roadway	/Skew	9.4 /					Dept. Re			06-Sep-2012			
AADT/Year		2,960 /	2011 (A)				Follow-U			00 000 2012			
Road Classifica	ation	RCU-20	9-110					p Dy					
Detour Length	(km)	5											
Bridge Culvert	Inform												
Number of Culv	/erts		2	I									
Pipe #	Barrel		Span	Rise (or Dia	.)	Гуре	L	.ength		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		2317	2560	5	SPE	6	65.8		152X51	3.5	ELLIPSE	
2	MAIN		2317	2560	5	SPE	6	5.8		152X51	3.5	ELLIPSE	
Special Feature	es												
Special Feature	es Comi	ment											
					Utili	ties (L	Located at	t)					
Utility Attachme													
Telephone	South	ditch.					Gas						
	Power						Municipa						
Others						Problem (Y/N) No							
Remarks				A			d / Embon	Jama a má					
				Appr La		Now	d / Emban		Condi	tion			
Horizontal Aligr	nment				4	4	Explanation of Condition  Curves both sides-signed @ 70 km/hr.						
Vertical Alignm					_ <del>-</del>	Sag curve.							
Roadway Width			9.400										
Troadway Widti	1 (111)		9.400										
Embankment				:	5	5							
Sideslope (	_:1)		1.5										
(Height of Co	ver(m) :	9.3)											
Guardrail (Y/N)			Yes										
Approach Roa	id / Eml	oankme	nt General Rat	ing	4	4							
						Jostre	eam End						
Culvert Compo	onent			La				tion of (	Condi	tion			
(Pipe # : <b>1, Sp</b>		e: Prima	ry Span)	'			· · ·						
Direction N North end East pipe.													
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL				East barrel is set approx. 1 M higher than West barrel.						
Headwall					X	Х							
Collar					X	Х							
	Wingwalls												
Wingwalls				2	X	Х							

76937 -1 Bridge Culvert

	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
(Pipe #: 1, Span Type: Primary	/ Span)										
Cutoff Wall		Х	Х								
Bevel End			7								
Heaving (mm) 0											
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm) 200											
Scour Protection		7	7								
(Type: RIP RAP)											
(Avg. Rock Size(mm) : <b>400</b> )											
Scour/Erosion		7	7								
Beavers (Y/N)	No										
Upstream End General Rating		7	7								
		Brid	dge Cu	Ivert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2317	, Rise (mm): 2560, Type: SPE)							
Barrel Last Accessible Date	25-Jul-2012			East pipe.							
Special Features											
Special Feature											
(Type:)			_								
Special Feature											
(Type:)											
Roof		4	5								
Measured Rise (mm)	2405										
Measured At Ring No.	13										
Sag (mm)	155										
Percent Sag	6										
Sidewall		4	5								
Measured Span (mm)	2490										
Measured At Ring No.	13										
Deflection (mm)	173										
Percent Deflection	7										
Floor		6	6								
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)	Yes		_								
Circumferential Seams		6	6								
Separation (mm)	0										
Longitudinal Seams		6	6	Cusping of sidewall & roof seams - max 20mm.							
Total No. of Cracked Rings 0											
Total No. of Rings with Two Cracked Seams	Total No. of Rings with Two 0			401							
Min. Remaining Steel Between Cracks (mm)				TN.							
Proper Lap (Y/N)	No										
Longitudinal Stagger (Y/N)	Yes										
Coating		4	4	Scaling & pitting throughout barrel sidewalls. Alkali corrosion from							
Corrosion By Soil (Y/N)	Yes			soil - heavy @ U/S end.							
Corresion By Water (V/N)	Ves										

Bridge Culvert Barrel											
Culvert Component				Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm									
Camber POS/ZERO/NEG	NEG										
Ponding (Y/N) No											
Fish Passage Adequacy		5	5								
Baffle		Х	Х								
(Type:)											
Waterway Adequacy		7	7								
Icing (Y/N)	No			D/S 1/2 silted up to 500mm.							
Silting (Y/N)	Yes										
Drift (Y/N)	No										
Barrel General Rating		4	5								
		D	ownstr	eam End							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe #: 1, Span Type: Primary	/ Span)										
Direction		S		South end of East pipe.							
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, Others, None)										
Headwall			Х								
Collar		X	X								
Wingwalls		Х	Х								
(Shape: )											
Cutoff Wall		Х	Х								
Bevel End		7	7								
Heaving (mm)	100										
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	100										
Scour Protection		7	7								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 400)			_								
Scour/Erosion		7	7								
Beavers (Y/N)	No										
Downstream End General Ratio	ng	7	7								
				am End							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 2, Span Type: Second	ary Span)										
Direction				North end West pipe.							
End Treatment (Concrete, Steel, Others, None)			1								
Headwall		X	X								
Collar		Х	X								
Wingwalls		X	X								
(Shape: )											
Cutoff Wall		X	X								

76937 -1 Bridge Culvert

			Unstre	eam End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	arv Span)	1_0.01	1	<del></del>
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	1000			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı		317, Rise (mm): 2560, Type: SPE)
Barrel Last Accessible Date	25-Jul-2012			West pipe.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	5	
Measured Rise (mm)	2390			
Measured At Ring No.	9			
Sag (mm)	170			
Percent Sag	7			
Sidewall		4	4	Sidewall - cracked @ ring #8.
Measured Span (mm)	2390			
Measured At Ring No.	5			
Deflection (mm)	73			
Percent Deflection	3			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		4	4	East seam cracked @ ring 8-110mm steel
Total No. of Cracked Rings	1			remaining.
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	110			1N.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Some rust, some alkali.
Corrosion By Soil (Y/N)	Yes			soil and water
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 23	317, Rise (mm): 2560, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
_		_		
				ream End
Culvert Component	I\	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			Ta
Direction	 	S		South end West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar			Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			Y	
		Last		re Usage Explanation of Condition
Channel (U/S and D/S)		Lasi	INOW	Explanation of Condition
Alignment		8	8	
Bank Stability			8	
HWM (m below Top of Culvert)				HWM NOT 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	

76937 -1 Bridge Culvert

				Mainte	nance Recomi	menda	ations							
Inspector Recommendations	Year	Inspecto	or Comments			Department Co	mmen	ıts		Target Year	Est. Cost	С	at#	
SHOTCRETE REPAIRS						·								
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUMULATION														
INSTALL CONCRETE/STEEL LINING														
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUTC	)FF													
REPAIR SEAMS														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/No. (%)	ow)	44.4/44.4		Sufficiency Rating (Last/Now) (%)		4	49.6/49.6		st. Repl. Yr 2020		Maint. R	eqd. (Y/N)	No	
Special Comments for Next Inspection							Department Comments							
Maintenance Reviewed By							Date				Estimated Tot	al 0		
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Garry		Roberts			Prev	/ious A	Assistant's Name	Э						
Next Inspection Date	25-Oct	-2015			Prev	ious Ir	nspection Date		14-May-2009					
Inspection Cycle (Default) (months)	39													
Comment														