					Brida	e Culve	ert Inspe	ction					
Bridge File Nur	nber	nber 75063 -1 Bridge Culvert				Bridge Garve		Form Type		CULM			
Year Built		1960	. <u></u>	•				Lot No.		2			
Bridge or Town	Name		ITH	Inspector Name		Brian Pientsch							
Located Over	TTUTTO			10 58 11			Inspector Class			BR CLS A			
Located Over		WATER	IMATEDODS ST					nt Name		Brian Cote			
Located On		2:72 C1	3.181	2 101						Briair Gote			
Water Body Cl.	/Year						Assistar Inspecti			05-Jul-2011			
Navigabil. Cl./Year							· ·			Theresa Lacu	cto		
Legal Land Loc	ation	SW SEC	27 TWP 74 R	Data Entry By			Sia						
Longitude, Lati	tude	-118:41:	·11 55·26·13					Data Entry Date		03-Aug-2011 Arnold Assenl	n a im a r		
Road Authority		Alberta -	Transportation	(AIT)			Reviewer Name Review Date			leimei			
Contract Main. Area CMA05				· ,					N 1	13-Jul-2011			
			7 deg. (RHF)							Steve Pasqua	n		
AADT/Year		4,290 / 2					<u> </u>	eview Da	ate	18-Nov-2011			
		RAU-21	. ,				Follow-U	эр ву					
Detour Length		40											
Bridge Culvert	` /									1			
Number of Culv			2										
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1724	1901		SPE		75		152X51	3.0	ELLIPSE	
2	MAIN		1429	1575		SPE		75		152X51	3.0	ELLIPSE	
Special Feature											1		
Special Feature		ment											
					Uti	lities (L	Located a	at)					
Utility Attachme	ents												
Telephone							Gas						
Power Single OH line in E. r/w						Municip	al						
Others							Problem	n (Y/N)	No				
Remarks													
				Ар	proac		d / Emba						
					Last	Now		ation of					
Horizontal Alignment					7	7	DRIVEV	VAY EN	TRANG	CE 100M S., B	OTH SIDES		
Vertical Alignment				8	8								
Roadway Width	n (m)		12.200										
Embankment					4	5	East em	bankme	nt dan	naged by off roa	ad vehicles for	90m length.	
Sideslope (:1)		3.0				1			and a second of the following the			
(Height of Co	· ·	5.5)					1						
Guardrail (Y/N)		,	Yes				7 posts and 7 sections damaged.						
Approach Roa	ıd / Eml	bankmer	nt General Rati	ing	7	7							
						Unstre	am End						
Culvert Compo	onent				Last	Now	Explana	ation of	Condi	tion			
(Pipe # : 1, Sp		e: Prima	ry Span)										
Direction					W		NORTH	CULV					
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL										
Headwall					Х	Х							
Collar					Х	Х							

75063 -1 Bridge Culvert

			Upstre	am End
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		Х	Х	
(Shape:)		<u>'</u>		
Cutoff Wall		Х	Х	
		_	_	
Bevel End	000	5	5	minor damage along top
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		4	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		4	5	
Beavers (Y/N)	Yes			Small dam u/s.
Upstream End General Rating		4	5	
Culvert Component			_	Explanation of Condition
Culvert Component (Pipe # : 1, Primary Span, Loca	tion Codo: MAIN Sna			· · ·
Barrel Last Accessible Date	05-Jul-2011	<u> </u>). 1724	, Rise (IIIII). 1901, Type. SFE)
Barrer Last Accessible Date	05-Jui-2011			
Special Features		I	_	
Special Feature				
(Type:)		1		
Special Feature				
(Type:)			_	
Roof		6	6	
Measured Rise (mm)	1840			
Measured At Ring No.	15			
Sag (mm)	61			
Percent Sag	3			
Sidewall		2	2	100 x 150mm hole in sidewall @ 4:00
Measured Span (mm)	1773			at ring 27. void 300mm deep (Photo)
Measured At Ring No.	15			Diagram and available & 5:00 avan 4 5m langeth due to
Deflection (mm)	49			Ring 23 - sidewall failed @ 5:00 over 1.5m length due to corrosion/cracking12-Nov-2009
Percent Deflection	3			Ring 25 failed over full lengthphoto
Floor		2	2	B: 50% (11.10.700 h)
Bulge (mm)	0			Ring 5,6 floor failed @ 7:00 due to corrosionphoto
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		2	2	
Total No. of Cracked Rings	2			Ring 6, 23 & 25 cracked/failed due to corrosionphotos
Total No. of Rings with Two Cracked Seams	2			
Min. Remaining Steel Between Cracks (mm)				1N stagger.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

75063 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 1724	, Rise (mm): 1901, Type: SPE)				
Coating		2	2	Deep pitting, scaling rust on floor and				
Corrosion By Soil (Y/N)	No			sidewalls.4-8 o'clockphoto 25mm perf. ring 4 @ 7:00-photo				
Corrosion By Water (Y/N)	Yes			Numerous 20-40mm perf. in ring 5photo				
				Ring 6-floor completely failed @ 7:00 position and holes @ 5:00 positionphoto				
				Ring 7 has perforations. Ring 23 sidewall failed @ 5:00 position over 1.5m length.				
				Ring 25 salewair railed © 5.00 position over 1.5m length.				
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							
Fish Passage Adequacy		5	5	Water very fast.				
Baffle		ХХ						
(Type:)								
Waterway Adequacy		5	5					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		2	2					
	Pownstream End Downstream End Last Now Explanation of Condition Span Type: Primary Span) E NORTH CULV							
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Span Type: Primary	Span)							
Direction		E		NORTH CULV				
End Treatment (Concrete, Steel, Others, None)	STEEL		_					
Headwall		Х	X					
Collar		Х	Х					
Wingwalls		X	X					
(Shape:)								
Cutoff Wall		X	X					
Bevel End		5	5					
Heaving (mm)	100							
Invert Above/Below Stream Bed	100							
Above/Below (mm)	0							
Scour Protection		N	4	Scour hole est 1.5 m deep x 12 m wide x 15 m long, 8 m d/s.				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)				Two rows lock blocks added to protect outlet.				
Scour/Erosion		N	4					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	4	4					
			□ Upstre	am End				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Direction		W		SOUTH CULV				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Collar		Х	Х	
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) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
-	cation Code: MAIN. S			429, Rise (mm): 1575, Type: SPE)
Barrel Last Accessible Date	05-Jul-2011	(1		
Special Features				
Special Feature				
(Type:)		1		
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1555			
Measured At Ring No.	11			
Sag (mm)	20			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	1450			
Measured At Ring No.	11			
Deflection (mm)	21			
Percent Deflection	1			
Floor		4	6	Deep pitting & scaling 5-7 o'clock.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

75063 -1 Bridge Culvert

		Brid	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Loc	cation Code: MAIN, S	pan (n	nm): 14	129, Rise (mm): 1575, Type: SPE)
Coating		4	4	Deep pitting & scaling rust on floor 5-7 o'clock.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Water very fast.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
-				
Outre of Orange and				eam End
Culvert Component	C	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Seconda	iry Span)	_		COLITILOUILY
Direction	OTE -	E		SOUTH CULV
End Treatment (Concrete, Steel, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	6	
	100			
U ,	ABOVE			
	500			
Scour Protection		6	4	Bevel being undermined fro the last 1m.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		6	4	
Beavers (Y/N)	No			
Downstream End General Rating	g	6	4	
		\$	tructur	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Culvert)				Hwm not visible.
	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			6					

			Maintenance Re	commend	lations					
Inspector Recommendations	Year	Inspector	Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								90000		
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION	2011	Replace of	damaged section guardrail.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 22.2/22	2.2 Sufficiency Rating (Last/N		Now)	26.7/27.6	Est. Repl. Yr 2013		Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection Next Inspection Monitor corrosion. Monitor erosion @ No repairs untill ass Low advisory rating Replacement culve	sessement comp ı sent.	olete.			Department Comments					
Maintenance Reviewed By					Date		[i	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Shane Hall	Shane Hall			Previous Assistant's Name					
Next Inconcition Data	05-Apr-2013			Previous	Inspection Date	12-Nov-2009	9			
Next Inspection Date	03-Api-2013			1						
Inspection Cycle (Default) (months)	21			1 1 1 1 1 1 1 1 1 1						