					Brido	ie Culve	ert Inspe	ection					
Bridge File Nu	mber	74470 -1	Bridge Culve	rt	71100		Form Ty		С	ULM			
Year Built		1955	g = 2 , c				Lot No.		1				
Bridge or Town	n Name	ВОТНА						or Name	С	wen Salava			
Located Over			ARY TO RED	WILLOW	CREE	 К,		or Class	В	BR CLS A			
		5.31.1.1,	WATERCRS	-ST			Assista	nt Name					
Located On		12:14 C1	1 16.122				Assista	nt Class					
Water Body CI								ion Date	3	1-Aug-2012			
Navigabil. Cl./	Year						Data Er			Marcia Chavez			
Legal Land Lo	cation	SE SEC	28 TWP 38 R	GE 18 W	4M			ntry Date	1	8-Sep-2012			
Longitude, Lati			20, 52:17:38					Reviewer Name		John O'Brien			
Road Authority	/	Alberta 7	Transportation	(AIT)			Review	Date		06-Sep-2012			
Contract Main.	Area	CMA20					Dept. R	eviewer Na		Andrew Smikles			
Clear Roadway	y/Skew		deg. (RHF)					eview Date		2-Oct-2012			
AADT/Year		2,100 / 2	2011 (A)				Follow-I						
Road Classific		RAU-213	3.4-110					, ,					
Detour Length		3											
Bridge Culver													
Number of Cul	verts	1											
Pipe #	Barrel	Span Rise (or			Dia.)	Туре	Length		C	orr. Profile	PI./Slab Thickness	Shape	
1	MAIN	3		BP		29.3				RECTANGLE			
1 MAIN 3600 1800 Special Features													
Special Features Comment 2 cell concrete box.													
·													
					Ut	ilities (L	Located	at)					
Utility Attachm													
Telephone	South	row.					Gas						
Power							Municip						
Others							Problem	n (Y/N) No	0				
Remarks													
				A			d / Emba		al!4! a	_			
Harizantal Alia	nmant				Last 7			ation of Co					
Horizontal Alig Vertical Alignm						8	Intersec	ction to road	allow	40 m east.			
Roadway Widt			12.700		8	0							
Roadway Widt	11 (111)		12.700										
Embankment					5	6							
Sideslope (_	_:1)		3.5										
(Height of Co	· ·	2.5)											
Guardrail (Y/N)		Yes				South side only. Half with strong lap.						
Approach Roa	ad / Fml	nankmen	⊥ t General Rat	ina	7	7							
Арргоаоп Ко	uu / Liiii	Jankinen	Cocheral Na	y	'								
					1.		am End						
Culvert Comp	onent				Last	Now	Explana	ation of Co	nditio	n			
Direction	L (C-:	-1- 0' '	CONODETE		S								
End Treatment Others, None)	(Concre	ete, Steel	, CONCRETE	<u> </u>									
Headwall					3	3	Rebar e	exposed, sp	alled -	photo.			
Collar					Х	X							
Wingwalls					4	4	Separat	ting @ ioint	to bar	rel and spalli	ng, exposed re	ebar.	
(Shape : FLA	ARE)							J = Jot		- Spain	g,		
Cutoff Wall	,				N	N							

74470 -1 Bridge Culvert

			linetra	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	350			
Scour Protection		6	6	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		3	3	
		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	31-Aug-2012			West cell.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		3	3	Heavy scaling and spalling with exposed rebar at outlet.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	4	Hole at circumferential seam at base of common wall 400 X 500 at
Separation (mm)	20			outlet
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Х	Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

74470 -1 Bridge Culvert

		Brid	dge Cu	Ilvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1800), Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		Brid	dge Cu	Ilvert Barrel
Culvert Component				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1800), Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	31-Aug-2012			East cell.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		3	3	(Hole in wall to other cell @ 1/2 L. 26Feb2009); below water level.
Measured Span (mm)				Cracking horizontal & vertical, damage to lower 1/3 of wall; exposed rebar.
Measured At Ring No.				Below water level.
Deflection (mm)	0			Spall at base of D/S common wall (photo).
Percent Deflection				
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Spalls at lower seams.
Separation (mm)	20			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Х	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

74470 -1 Bridge Culvert

		Bric	dge Cul	vert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		3	3	Severe scaling and spalling with exposed rebar.
Collar			X	
Wingwalls		4	4	Spalled @ top corner & waterline.
(Shape : FLARE)				
Cutoff Wall		N	N	
Bevel End		Х	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm) 350				
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm):)		1		
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	3	3	
		S	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

			Maintenance Recommendations	nendations					
Inspector Recommendations	Year	Inspecto	Inspector Comments	Department Comments	ments	Tar	Target Year E	Est. Cost	Cat#
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF	-F								
REPAIR SEAMS									
OTHER ACTION	2012	Patch are OH-V.	Patch areas that have exposed rebar, 0.5m3 OH-V.	n3					
OTHER ACTION	2012	Repair h	Repair headwalls - 1.0m3 concrete.						
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	N) 33.3/33.3	3.3	Sufficiency Rating (Last/Now) (%)	44.6/44.5	Est. Repl. Yr	2020	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Estim	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previ	Previous Assistant's Name					
Next Inspection Date	31-May-2014		Previ	Previous Inspection Date	26-Aug-2010				
Inspection Cycle (Default) (months)	21								
Comment									

				Maintenance F	Recommen	dations						
Inspector Recommendations		Year	Inspecto	or Comments		Department C	Comme	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LININ	G											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUT	OFF											
REPAIR SEAMS												
OTHER ACTION		2012	Patch areas that have exposed rebar, 0.5r OH-V.			Programmed				2013		
OTHER ACTION		2012	Repair I	neadwalls - 1.0m3 concret	e.	Programmed			2013			
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)		33.3/33	.3	Sufficiency Rating (Las	st/Now)	44.6/44.5	E	st. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments	Curre	ently programm	ed for rep	placement in 2	021	
Maintenance Reviewed By	Andrey	w Smikle	es			Date	19-N	ov-2012		Estimated Tota	al 0	
Proposed Long-Term Strategy	7					724.0		·	ı			
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name		Salava			Previous	Assistant's Nar	ne					
Next Inspection Date	31-Ma	y-2014			Previous	Inspection Date	9	26-Aug-2010				
Inspection Cycle (Default) (months)	21											
Comment												