					Brida	e Culve	ert Inspe	ction						
Bridge File Number 71713 -1 Bridge Culvert										CUL1				
Year Built 1956				<u> </u>			Lot No.			1				
			ICINE HAT				Inspector Name			Tom Carey				
Located Over	ritanio		ORDER TRIBUTARY TO SEVEN				Inspector Class			BR CLS A				
		ONS CK, 2.7.1.1.1, WATERCRS-ST				Assistant Name								
Located On 3:16 C1 22.928							Assistant Class							
Water Body Cl							Inspection Date			11-Nov-2011				
Navigabil. Cl./Y				05 0 144				ntry By		Alyssa Boynton				
								ntry Date		01-Dec-2011				
								er Name	•	Garry Roberts				
			Transportation (AIT)					Date		23-Nov-2011				
Contract Main. Area CMA23			·				Dept. Reviewer Name			Tim Davies				
			deg. (RHF)					Review Da	ate	06-Dec-2011				
AADT/Year		4,040 / 20					Follow-	Up By						
Road Classifica		RAU-213	-130				-							
Detour Length		3												
Bridge Culver		ation												
Number of Cul		1									1			
Pipe #	Barrel	S	pan	Rise (or Dia		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	027	2240		SPE		54.9		152X51	3.5,3.5,3.5	ELLIPSE		
Special Feature	es													
Special Feature	es Comr	ment												
					Uti	lities (L	ocated	at)						
Utility Attachme		400 144	() 0 (50	<u> </u>		•	0		0					
Telephone	4 wire east.	e 100m W. of c.I & 150m S and 4 west 30m					Gas	Crosses hwy 75 m south						
Power					Municipal									
Others	Fibre optics in west R/W					Problem (Y/N) No			No					
Remarks														
Romano				Δr	oproad	ch Road	d / Emba	ankment						
					Last	Now		Explanation of Condition						
Horizontal Alig	nment		1		8	8	Local road 75m South of culvert							
Vertical Alignment					8	8	20 mm wide crack in ACP over west end of pipe.							
· · · · ·	Roadway Width (m)													
Embankment					7	7								
Sideslope (•1)		2.5			,								
(Height of Co		3.6)	2.0				1							
Guardrail (Y/N)		. 5.0)	No	2 C										
Approach Roa	ad / Emb	bankment	General Rat	ing	8	8								
						Unctre	am End							
Culvert Comp	onent				Last			ation of	Condi	tion				
Culvert Component					W	110 W	Explanation of Condition West.							
End Treatment (Concrete, Steel,			STEEL											
Others, None) Headwall				Х	X									
Collar				X	X									
Wingwalls				X	X									
(Shape :)														
Cutoff Wall				Х	X									
						Daga	1 of 4							

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		5	5	Pitted rust on floor.						
Heaving (mm)	100									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm)	200		-							
Scour Protection		7	7	Grass growing through the rocks						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		7	7							
Beavers (Y/N)	No		<u> </u>							
Upstream End General Rating		5	5							
		Deie		lvert Barrel						
Culvert Component		1		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN_Spa									
Barrel Last Accessible Date	11-Nov-2011		<i>j.</i> 2021							
Special Features										
Special Feature				Rings from numbered from U/S West						
(Type:)										
Special Feature										
(Type :)										
Roof			3	Isolated perforations at rings 6 and 7.						
Measured Rise (mm)	2190		-							
Measured At Ring No.	6									
Sag (mm)	50									
Percent Sag	2									
Sidewall		6	6	Start soil corrosion thru boltholes.						
Measured Span (mm)	2067									
Measured At Ring No.	6									
Deflection (mm)	40									
Percent Deflection	2									
Floor	-	N	5	Pitted rust and scaling on 1.0 m						
Bulge (mm)	0		0	strip along floor.						
Measured At Ring No.	-									
Abrasion (Y/N)	Yes									
Circumferential Seams		7	7	(Spring leaking into barrel at 5						
Separation (mm) 0			1	o'clock at 1/3 L.)						
Longitudinal Seams	•	7	7							
Total No. of Cracked Rings	0	1	1							
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No			1						
Longitudinal Stagger (Y/N) Yes				1						
Coating			3	1m strip of floor has deep pitting and scaling						
Corrosion By Soil (Y/N)	Yes	3 3		Isolated corrosion perforations at Ring 4- 20mm x 100mm at roof						
Corrosion By Water (Y/N)	Yes			Corrosion with pitting at roof at rings 6 and 7 starting to perforate.						
Camber POS/ZERO/NEG	POS									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm							
Fish Passage Adequacy		5	5						
Baffle		X	X						
(Type :)			7.						
Waterway Adequacy		8	8						
Icing (Y/N)	No		-						
Silting (Y/N)	No								
Drift (Y/N)	No			1					
Barrel General Rating		3	3						
J									
Culvert Component			Now	ream End					
Culvert Component Direction			NOW	Explanation of Condition East.					
End Treatment (Concrete, Steel, STEEL Others, None)		E							
Headwall	1	X	Х						
Collar		X	Х						
Wingwalls		X	X						
(Shape :)			~	-					
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm) 200				1					
Scour Protection		5	5						
(Type : RIP RAP)			-						
(Avg. Rock Size(mm) : 300)									
Scour/Erosion			5	Scour below bevel goes back under 1.5m & is 300mm deep along SE haunch- minor Grassed In No problems					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
		S	Stru <u>ctu</u>	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6	BENDS 45 DEG 25 m D/S					
Bank Stability			7						
HWM (m below Top of Culvert)	1.0			(940331)					
Drift (Y/N)	No								
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	· · · ·								
Channel General Rating			6						

Maintenance Recommendations													
Inspector Recommendations	١	Year	Inspector Comments				Department Co		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING	2	2020											
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	DFF												
REPAIR SEAMS													
OTHER ACTION	2	2012	Seal crack in ACP										
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow) 3	33.3/33.3		Sufficiency Rating (Last/Now) (%)		/) 5	52.3/52.2		st. Repl. Yr 2020		Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			E	Estimated Tota	0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Tom Carey Previo					evious A	Assistant's Name						
Next Inspection Date	11-Aug-2013 Previous					evious I	nspection Date		25-Jun-2010				
Inspection Cycle (Default) (months)	21												
Comment													