					Brida	e Culve	ert Insp	ection					
Bridge File Nun	nber	77268 -1	Bridge Culve		-mag	e cuiv	Form Type			CUL1			
Year Built 1971						Lot No.				4			
Bridge or Town	Name	-	HAM			Inspector Name		Jon Davies					
Located Over			M COULEE, 1	1.9. WATE	RCR	S-ST	Inspector Class		BR CLS B				
Located On		36:02 C		,			Assistant Name		DIX OLO D				
Water Body Cl.	/Year						Assistant Class						
Navigabil. Cl./Y							Inspection Date		06-Dec-2011				
Legal Land Loc		SE SEC	15 TWP 6 RGE 17 W4M				Data Entry By		Anne Roberts				
Longitude, Latitude -112:12:25		25, 49:28:13				Data Entry Date		15-Jan-2012					
						Reviewer Name		Garry Roberts					
Contract Main. Area CMA24				Review Date		18-Dec-2011							
Clear Roadway/Skew 11 / -10 de		leg. (LHF)				Dept. Reviewer Name							
AADT/Year 540 / 2010						Dept. Review Date		18-Jan-2012					
Road Classification RAU-210						Follow-Up By							
Detour Length	(km)	3					. Slow op by						
Bridge Culvert		ation											
Number of Culv	/erts		1										
Pipe #	Barrel		Span	Rise (or E	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		4877		SP	50			152X51	4.0,5.0	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
Litility Attacks as as	und n				Uti	ilities (L	_ocated	at)					
Utility Attachme		POW.					Gas		West	ROW 200 m			
Telephone West ROW							Municipal		ROW 200 III				
Power Crossing North 200 m							Problem (Y/N) No						
Others Remarks							Floble	III (171 4)	INO				
Remarks				Δn	nroad	ch Roa	d / Emb	ankment					
								nation of		tion			
Horizontal Align	Horizontal Alignment				7	7	Long gradual curve, gradual sag,						
	Vertical Alignment				7	7	good sight distance.		•				
Roadway Width	n (m)		11.000										
Embankment					7	7							
Sideslope (_:1)		3.0										
(Height of Co	ver(m) :	2.6)											
Guardrail (Y/N)	,	,	Yes										
Approach Roa	d / Eml	bankmen	t General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	onent				Last	Т.		nation of	Condi	tion			
Direction					W								
End Treatment Others, None)	(Concre	ete, Steel	, CONCRETE										
Headwall				Χ	Х								
Collar			7	6									
Wingwalls					X	X							
(Shape:)							1						
Cutoff Wall					N	6	CUTO	CUTOFF WALL POURED WHICH NOW SUPPORTS COLLAR Large crack and movement at SW where collar is supported.				S COLLAR	
							Large	orack all	111076	noncacovy WIII	ore collar is su	oponiou.	

77268 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	6	Superficial corrosion some pitting
Heaving (mm)	300		_	
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	6	Rock is good at sides of bevel
(Type : RIP RAP)		14		Trook to good at oldoo of bovol
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	6	
Scoul/E10sion		l IN		
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			, Rise (mm): 4877, Type: SP)
Barrel Last Accessible Date	25-Jun-2004	, , , , , , , , , , , , , , , , , , ,	·,·	
Special Features				
Special Feature				Able to enter pipe from u/s to 1/2 length. General shape of roof and side wall is good.
(Type:)				- Side Wall is good.
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)	4850			
Measured At Ring No.				
Sag (mm)	27			
Percent Sag	1			
Sidewall		N	N	[(Cracked seams, 73 mm-ring 2&3) 2004/06/25
Measured Span (mm)	4560			(SWALL 0 DEFL BASED ON LAST insp-meas]2004/06/25 Based on past info
Measured At Ring No.				[(Span meas ring from d/s end) (1-4.56m]2004/06/25
Deflection (mm)	317			ring#4-inward 317mm 6.5% @ ring 1) 2004/06/25 Ring 5 span = 4816 mm, Ring 6 span = 4824 mm
Percent Deflection	7			Traing o opan = 1010 mm, raing o opan = 102 mm
Floor		N	N	Floor avg 500mm deep water
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0	14	111	
•	<u> </u>	N	N	South wall-ring #3-5 valleys crocked
Longitudinal Seams Total No. of Cracked Rings	6	IV	IN	South wall-ring #3-5 valleys cracked (#4-3 valleys, #8-east 6 valleys, #9-)2004/06/25
Total No. of Cracked Rings Total No. of Rings with Two	U			(east 14 valleys - 83 mm min steel)2004/06/25
Cracked Seams Min. Remaining Steel	70			(crest 7 from d/s. #10-16 valleys) 2004/06/25 1-7 too heavily corroded to see crks.) 2004/06/25 (@ ring 3 - 70mm remaining lower long sidewall seam)2004/06/25
Between Cracks (mm)				(S ming 5 - 7 omini remaining lower long sidewall seam)2004/00/25
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	(Alkali stains through seams. Long seam)2004/06/25
Corrosion By Soil (Y/N)				(Corrosion pitting - moisture comes in from all lower longit seams.) 2004/06/25
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel												
Culvert Component			Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm):		, Rise (mm): 4877, Type: SP)								
Fish Passage Adequacy		7	7									
Baffle		Х	Х									
(Type:)												
Waterway Adequacy		8	8									
Icing (Y/N)	No											
Silting (Y/N)	No											
Drift (Y/N)	No											
Barrel General Rating		3 3		General rating carried forward								
Downstream End												
Culvert Component		Last	Now	Explanation of Condition								
Direction		E										
End Treatment (Concrete, Steel, Others, None)	STEEL											
Headwall		Х	X									
Collar		X	X									
Wingwalls		X	Х									
(Shape:)												
Cutoff Wall		X	X									
Bevel End		N	5									
Heaving (mm)	200											
Invert Above/Below Stream Bed ABOVE				Bevel projects above fill 800mm avg.								
Above/Below (mm)	300											
Scour Protection		N	4	Rip rap incomplete and displaced at North side lower bevel.								
(Type : RIP RAP)				- Trip rap incomplete and displaced at North side lower bevel.								
(Avg. Rock Size(mm) : 400)												
Scour/Erosion		N	4	Unable to confirm depth of large scour hole d/s- 20m diameter								
Beavers (Y/N)	No											
Downstream End General Ratin	ng	5	4									
		S	tructu	re Usage								
		Last	Now	Explanation of Condition								
Channel (U/S and D/S)												
Alignment		7	7	Steep cut bank @ SW Meanders thru valley.								
Bank Stability			5	Erosion at SE bank - minor.								
HWM (m below Top of Culvert) 1.7				No HWM visible								
Prift (Y/N) No												
Channel Bottom DEGRADING Degrading/Aggrading												
Beavers (Y/N) No												
(Fish Compensation Measure 1 :	NONE)											
(Fish Compensation Measure 2 : NONE)												
Channel General Rating		7	7									

			Mainter	nance Recomme	ndations						
Inspector Recommendations	Year	Inspecto	r Comments		Department Com	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	3										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION										\perp	
OTHER ACTION										\perp	
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	low) 33.3/3	3.3	Sufficiency Ratin	g (Last/Now)	57.3/56.3	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Tota	1 0		
Proposed Long-Term Strategy									'		
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Tom Carey			Previou	ıs Assistant's Name	Assistant's Name					
Next Inspection Date	06-Sep-2013			Previou	s Inspection Date	24-Jun-2010					
Inspection Cycle (Default) (months)	21										
Comment											