					Brido	ie Culve	ert Inspe	ection						
Bridge File Nur	mber	75211 -1 Bridge Culvert				je curve			CUL1					
Year Built/Lined 1960/19							Lot No.			4				
Bridge or Town Name DUCHES						Inspector Name			Jon Davies					
Located Over	11101110		RRIGATION C,	WATERC	RS-IC		Inspector Class		BR CLS B					
Located On			C1 12.075					ant Name						
Water Body Cl	./Year	00.00					Assistant Class							
Navigabil. Cl./\							Inspection Date		14-Jan-2012					
Legal Land Loc							Data Entry By			Anne Roberts				
Longitude, Lati		-111:57:02, 50:44:34					Data Entry Date			27-Feb-2012				
Road Authority  Contract Main. Area		Alberta Transportation (AIT)					Reviewer Name		Garry Roberts					
		CMA23					Review Date		20-Jan-2012					
Clear Roadway		10.6 /				Dept. Reviewer Name			Name					
AADT/Year		1,450 / 2010 (A)						Review Da		11-Mar-2012				
			11.8-110			Follow-Up By								
Detour Length	(km)	5					. J.							
Bridge Culver														
Number of Cul			1											
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape			
2	MAIN F	FULL	-	2400		MP		36		125X26	2.8	ROUND		
Special Feature	es													
Special Feature	es Comi	ment												
					Ut	ilities (L	ocated	at)						
Utility Attachmo		2014												
Telephone							Gas		Street lights at East and West POW					
Power		st and West ROW. Crossing Sout			n		Municip			treet lights at East and West ROW				
Others Fibre optic cable East ROW							Proble	m (Y/N)	No					
Remarks				Δr	nroa	ch Road	d / Emb	ankment						
				7.1	Last		Explanation of Condition							
Horizontal Alig	nment				6	6	Jct SH 550 20 m South.							
Vertical Alignm					5	6				g lanes over str	ructure.			
Roadway Widt			10.600											
Embankment				7	6	6:1 then 3:1 at pipe ends								
Sideslope (_	·1)		3.0	1	U	o. i trieri o. i at pipe erius								
(Height of Co	· ·	1 4)	J.0											
Guardrail (Y/N)		,	No											
		h = 10 leven =	ment General Rating											
Approach Roa	au / EMI	Jankine	eni Generai Ra	ung	5	6								
Culus = 1 C	am = (						am End		` ·	tion.				
Culvert Component			Last W	Now	⊏xpiar	ation of C	Jonal	uon						
Direction  End Treatment (Concrete, Steel, STEEL			VV											
Others, None) Headwall					X	Х								
Collar				X	X									
Wingwalls					Х	X								
(Shape: )														
Cutoff Wall				Х	Х									
Cuton vvali					^	^								

			Hereton	
				eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	300		1	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	·	7	7	
		Bri	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN			, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	14-Jan-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		9	6	Roof shape is good at mid length. Sag occurs at R 1 and 4 under
Measured Rise (mm)		9		embankment.
				- Est.
Measured At Ring No.	400			
Sag (mm)	120			
Percent Sag	5		1	
Sidewall	I	N	6	
Measured Span (mm)	2530			
Measured At Ring No.	1			
Deflection (mm)	130			
Percent Deflection	5			
Floor		N	N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	5	
Separation (mm)	80			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
		N.I.	6	Minor correction at sidewell
Coating  Correction By Soil (V/N)	No	N	U	Minor corrosion at sidewall
Corrosion By Soil (Y/N)	No			
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 # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 2400, Type: MP)							
Fish Passage Adequacy		Х	7								
Baffle			Х								
(Type:)											
Waterway Adequacy		8	8	Handles all West side ditch drainage							
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		N	6								
Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Direction		Е									
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall		Х	Х								
Collar		Х	X								
Wingwalls		Х	Х								
(Shape: )											
Cutoff Wall		Х	Х								
Bevel End			7								
Heaving (mm)	0										
Invert Above/Below Stream Bed BELOW											
Above/Below (mm) 200											
Scour Protection			7								
(Type: RIP RAP)											
(Avg. Rock Size(mm) : <b>250</b> )											
Scour/Erosion		7	7								
Beavers (Y/N)	No										
Downstream End General Ratio	ng	7	7								
		S	tructu	re Usage							
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)											
Alignment			9								
Bank Stability			8								
HWM (m below Top of Culvert) 0.8				No HWM visible							
Drift (Y/N)	No										
Channel Bottom Degrading/Aggrading  NONE											
Beavers (Y/N) No											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating		9	9								

			Maintena	ance Recommer	dations					
Inspector Recommendations	Yea	ar Inspe	ctor Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 55.6	6/66.7	Sufficiency Rating (%)	g (Last/Now)	69.6/74.7	Est. Repl. Yr	2041	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tom Carey			Previous	Assistant's Name					
Next Inspection Date	14-Oct-201	3		Previous	Inspection Date	22-Jun-2010				
Inspection Cycle (Default) (months)	21									
Comment										