					Bridg	e Culve	ert Insp	ection						
Bridge File Nur	78432 -1 Bridge Culvert Year Built 1980						Form T	уре		CUL1				
					Lot No.			1						
Bridge or Town Name DUCHESS						Inspector Name			Tom Carey					
Located Over EID - IRRIGATION C, WATERCH				RS-IC		Inspector Class			BR CLS A					
Located On		544:02 (C1 0.875				Assista	ant Name						
Water Body Cl./Year							Assista	ant Class						
Navigabil. Cl./Y	'ear						Inspec	tion Date		15-Feb-2010				
Legal Land Loc	cation	SW SEC	C 13 TWP 20 R	RGE 15 W	/4M		Data E	ntry By		Kelsey Roberts	S			
Longitude, Lati	tude	-111:57:	:30, 50:41:19				Data Entry Date 03-Mar-2010							
Road Authority		Alberta ⁻	Transportation	(AIT)			Reviewer Name Garry Roberts							
Contract Main.	Area	CMA23					Review Date			23-Feb-2010				
Clear Roadway	//Skew	9.8 /			Dept. Reviewer Name			Lorenz Bohner	rt					
AADT/Year		400 / 20	08 (A)					Dept. Review Date		08-Mar-2010				
Road Classifica	ation	RCU-21	0-110				Follow-Up By							
Detour Length	(km)	5												
Bridge Culver	t Inform	ation												
Number of Culv	verts		1	ı										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	:	2160	1370		FP		23.1		68X13		ARCH		
Special Feature	es													
Special Feature	es Comr	ment												
					114	:::::::::::::::::::::::::::::::::::::::		~4 \						
Utility Attachme	ante				Οti	ilities (L	-ocateu	at)						
Telephone	south						Gas		30 m	south				
Power		, north				Municipal		30411						
Others	1-WIIC	, 1101111					Problem (Y/N) No							
Remarks							1 10010111 (1/14) 140							
rtemante				A	pproad	ch Road	l / Emb	ankment						
					Last	Now	Explanation of Condition							
Horizontal Align	nment				7	7	Hwy 36	Hwy 36 800 M west						
Vertical Alignment			8	8	School ent 50m W									
Roadway Width (m) 9.500														
Embankment					7	N	Snow							
Sideslope (_:1)		3.0											
(Height of Co	ver (m)	: 1.2)												
Guardrail (Y/N)			No											
Approach Roa	ad / Emb	oankmer	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explar	ation of	Condi	tion				
			S	SOUTH										
End Treatment (Concrete, Steel, NONE Others, None)														
Headwall			X	X										
Collar			X	X										
Wingwalls			X	X										
(Shape:)														
Cutoff Wall			X	X										

78432 -1 Bridge Culvert

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	<u> </u>	X	X	(981103)
Heaving (mm)	200			(301100)
Invert Above/Below Stream Bed				
Above/Below (mm)	50			
Scour Protection	30	7	N	Snow
		/	IN	Show
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 250) Scour/Erosion		7	N	
SCOUI/ETOSIOTI		'	IN	
Beavers (Y/N)	No			
Upstream End General Rating		7	N	
		Bri	d <u>ge Cu</u>	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			
Barrel Last Accessible Date	21-Feb-2007			
Special Features				
Special Feature				Ice 700mm from roof and unstable.
(Type:)				
Special Feature				Unable to measure to enter.
(Type:)				-
Roof		2	N	Unable to confirm measurement due to ice.
Measured Rise (mm)	1060		11	
Measured At Ring No.	3			Measurement from past inspection Deflection appears stable and no worse than past inspection.
Sag (mm)	310			Denotion appears stable and no worse than past moreotion.
Percent Sag	22			
i e e e e e e e e e e e e e e e e e e e		5	l NI	No distartion of road surface due to roaf age
Sidewall Magazinad Span (mm)	2284	3	N	No distortion of road surface due to roof sag.
Measured Span (mm) Measured At Ring No.	3			
Deflection (mm)	124			
Percent Deflection	5			
	5			VOCUL D MOT ETEL ANNY EL COD DUIL OF VOCA 400
Floor		N	N	(COULD NOT FEEL ANY FLOOR BULGE)981103
Bulge (mm)	0			Ice covered
Measured At Ring No.				
Abrasion (Y/N)		_		
Circumferential Seams	400	5	N	
Separation (mm)	100			
Longitudinal Seams	1.	X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	(pitted rust)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

		Bric	lge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2160	, Rise (mm): 1370, Type: FP)
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	5	Gen rating carried forward
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
Cutoff Wall		Х	Х	
Bevel End		Х	Х	(981103)
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	N	Snow
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 250)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	N	
		s	tructu	re Usage
		Last	Now	Explanation of Condition
· · · · · · · · · · · · · · · · · · ·		I	I	
Alignment		7	7	
Bank Stability		8	N	Snow
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
(Shape:) Cutoff Wall Bevel End Heaving (mm) 100 Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection (Type: RIP RAP) (Avg. Rock Size (mm): 250) Scour/Erosion Beavers (Y/N) No Downstream End General Rating Channel (U/S and D/S) Alignment Bank Stability HWM (m below Top of Culvert) Drift (Y/N) No Channel Bottom				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 : NONE)				
		7	7	G.R. carried

78432 -1 Bridge Culvert

		Maintenance R	ecommendations					
Inspector Recommendations	Year	Inspector Comments	Department Co		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	2013	Replace pipe						
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	low) 22.2/5	5.6 Sufficiency Rating (Last	/Now) 52.0/63.2	Est. Repl. Yr	2013	Maint. Re	qd. (Y/N)	Yes
Special Informed A.T. Feb. Next Inspection	18/10- schedule	d for replacement in 2013.	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	Tim Davies		Previous Assistant's Name)				
Next Inspection Date	15-May-2013		Previous Inspection Date	21-Feb-2007				
Inspection Cycle (Default) (months)	39							
Comment								