Bridge Culvert Inspection													
Bridge File Number 71249 -2 Bridge Culvert						Form Type		CULM	CULM				
Year Built	ear Built 2005						Lot No.		6				
Bridge or Town	idge or Town Name WINFIELD						Inspector Name		Paul Carrier				
Located Over TRIBUTARY TO MUSKRAT CRE 6.132.2.12.1. WATERCRS-ST				EEK,		Inspector Class		BR CLS A	BR CLS A				
Located On		761:10	C1 0.552				Assistant Name						
Water Body Cl./	/Year						Assistant Class		19-Oct-2010	10 Oct 2010			
Navigabil. Cl./Y	ear								Marcia Chave	7			
Legal Land Loc	ation	SE SEC	C 18 TWP 46 R	GE 5 W5	М		Data E	ntry Date	29-Nov-2010	29-Nov-2010			
Longitude, Latit	ude	-114:42	::19, 52:57:37				Data El	or Name	John O'Brien				
Road Authority		Alberta	Transportation	(AIT)			Review	Date	04-Nov-2010	4-Nov-2010			
Contract Main. Area CMA17							Dept. Reviewer Name		Chris Black				
Clear Roadway	/Skew	7.3/0	deg.				Dept. Reviewer Name		08-Dec-2010				
AADT/Year		320 / 20	009 (A)				Follow-						
Road Classifica	tion	RCU-20)8G-90				1 onon	op D)					
Detour Length ((km)												
Bridge Culvert	Informa	ation											
Number of Culv	verts		2							1			
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1200		MP		18.3	68X13	2.8	ROUND		
2	MAIN		-	1200		MP		17.3	68X13	2.8	ROUND		
Special Feature	es												
Special Feature	es Comm	nent											
								0					
	in to				Uti	lities (L	ocated	at)					
							0.00						
Telephone	Plowed						Gas						
Power 2 wires OH 11.0m North.						Brobler							
Others					houldor		$\frac{11(1/N)}{11(1/N)}$						
Remarks		evious p			ny o si oproac	h Road	l / Emba	nkment					
					Last	Now	Explan	ation of Con	lition				
Horizontal Align	ment				5	5	Curve in road 200m E near Jct Hwy13.						
Vertical Alignme	ent				6	6	Minor crest curve into horiz. curve 300m W.						
Roadway Width	n (m)		9.000				Road is slightly wider at culverts.						
Embankment					6	6							
Sideslope (·1)		2.0		0								
(Height of Co	<u></u> ver(m) ·	04)	2.0										
Guardrail (Y/N)		011)	No										
Approach Roa	d / Emb	ankme	nt General Rat	ing	5	5							
				-									
						Upstrea	am End	m End					
(Ding # 1 6 Pro	onent	.)			Last	NOW	Explan	ation of Con	lition				
(Pipe # : 1, Span Type:)													
End Treatment (Concrete, Steel, NONE													
Others, None) Headwall			Х	X									
Collar			Х	X									
Wingwalls			Х	X	W culve	ert: N ditch (pl	uoto)						
									1010).				

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	ĺ.		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			_	
Cutoff Wall		X	X	
Bevel End		X	Х	No bevelled end - cut square.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		5	6	Well grassed-in.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		5	6	Ditch to NW retaining water (photo).
Beavers (Y/N)	No			Beavers located safely u/s near trees.
Upstream End General Rating	1	5	6	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ו):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	15-Aug-2005			
Special Features				
Special Feature				_
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	Dent near midspan, probably from construction.
Measured Rise (mm)				-
Measured At Ring No.				-
Sag (mm)	0			
Percent Sag				
Sidewall		7	N	_
Measured Span (mm)	1210			
Measured At Ring No.				_
Deflection (mm)	10			_
Percent Deflection	1			
Floor		N	N	Covered with water/silt.
Bulge (mm)				
Measured At Ring No.				-
Abrasion (Y/N)			_	
Circumferential Seams		5	N	
Separation (mm)	10			
Longitudinal Seams		X	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		5	5	Carried forward.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

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		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loc	ation Code: MA	NN, Span (mm	ı):	, Rise (mm): 1200, Type: MP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		X	X						
Baffle		Х	X						
(Туре :)			_						
Waterway Adequacy	-	6	6	_					
Icing (Y/N)	No			- Minor silt accumulation over floor, typical.					
Silting (Y/N)	Yes			_					
Drift (Y/N)	No								
Barrel General Rating		5	N						
		Bri	dge Cu	Ivert Barrel					
(Pine # : 2 Secondary Span J	ocation Code:								
Parrol L act Accessible Date		MAIN, Span (I	iiii):	This subort is likely older then primary aper					
Barrei Last Accessible Date				This curvert is likely older then primary span.					
Special Features									
Special Feature									
(Type :)				_					
Special Feature									
(Type :)									
Roof			N						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall			N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)									
Percent Deflection									
Floor			N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams			N						
Separation (mm)									
Longitudinal Seams	·		Х						
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)				1					
Coating			5						
Corrosion By Soil (Y/N)	Yes			1					
Corrosion By Water (Y/N)	Yes			1					

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71249 - 2 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAI	N, Span (n	nm):	, Rise (mm): 1200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			X	
Baffle			X	
(Туре :)				
Waterway Adequacy			6	_
Icing (Y/N)	No			-
Silting (Y/N)	Yes			-
Drift (Y/N)	No			
Barrel General Rating			N	
			ownot	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # · 2 Span Type:)	<u> </u>	Lasi	NOW	
Direction		c		E culvort
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End	1		6	-
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			-
Above/Below (mm)	250			
Scour Protection			6	Heavy willow/grass growth near end of culvert.
(Type : NATURAL)				-
(Avg. Rock Size(mm) :)				
Scour/Erosion	1		6	
Beavers (Y/N)	No		1	Evidence of beavers further d/s.
Downstream End General Ration	ng		6	
		S Last	Structu Now	re Usage Explanation of Condition
Channel (U/S and D/S)				
Alignment			5	Adequate for slow meandering watercourse.
Bank Stability		6	6	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Bottom appears stable. Heavy grasses and many willow trees (photo). Beavers 100m u/s.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	None)			
(Fish Compensation Measure 2 :	None)			

Structure Usage									
Last Now Explanation of Condition									
Channel General Rating			5						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments	Depar	tment Commen	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING	i											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	DFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION										_		
OTHER ACTION												
Structural Condition Rating (Last/N (%)	ow) 5	55.6/55.0	6 Sufficiency Rating (Last/Now) (%)) 55.4/59.	1 Est	t. Repl. Yr	2040	Maint. Red	qd. (Y/N)	No		
Special Inspect barrels of both culverts Next Inspection			e to verify condition.	Depar Comm	tment nents							
Maintenance Reviewed By				Date			E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Dave La	m	Pre	vious Assistar	Assistant's Name							
Next Inspection Date 19-Jar		2014	Pre	vious Inspecti	s Inspection Date 15-Sep-2005							
Inspection Cycle (Default) (months)	39			·								
Comment												