					Brida	e Culve	ert Insn	ection						
Bridge File Number 73048 -1 Bridge Culvert					Eneg	c ourv	ulvert Inspection Form Type			CUL1				
Year Built 1965								71		4				
Bridge or Town Name WINFIELD									Owen Salava					
Located Over	i i i i i i i i i i i i i i i i i i i	TRIBUT	ARY TO POPL	AR CRE	EK, 6.	132.13,	Inspector Class		BR CLS A					
		WATER	CRS-ST				· ·	ant Name						
	WATERCRS-ST ocated On 20:06 C1 36.359 Vater Body CI./Year lavigabil. CI./Year egal Land Location NW SEC 8 TWP 46 RGE 3 ongitude, Latitude -114:24:42, 52:57:25 toad Authority Alberta Transportation (AIT) Contract Main. Area CMA17 Contract Main. Area CMA17 Clear Roadway/Skew 10 / ADT/Year 2,220 / 2011 (A) coad Classification RAU-211.8-110 betour Length (km) 26 etour Length (km) 26 atridge Culvert Information Span lumber of Culverts 1 special Features Span clephone In r/w to West. rower 3 lines 25m West of c/l. others 3 lines 25m West of c/l. others stemarks atorizontal Alignment 10.000 atoadway Width (m) 10.000						Assistant Class							
•							Inspec	tion Date		09-Jul-2012				
							Data E	Intry By		Marcia Chave	z			
				GE 3 W5	M		Data E	ntry Date		01-Aug-2012				
							Review	Reviewer Name		John O'Brien				
Contract Main. Area CMA17				(AIT)			Review Date		31-Jul-2012					
							Dept. Reviewer Name							
								view Date 02-Aug-2012						
							Follow	Follow-Up By						
	Road Classification RAU-211.8-110						· · · · · · · · · · · · · · · · · · ·							
		1												
		nation												
	verts													
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		1724		SP		50.6		152X51	2.8	ROUND		
Special Feature	es													
Special Feature	es Comi	ment												
					Ut	ilities (L	ocated	at)						
							-		1					
							Gas							
Power	3 lines	s 25m West of c/l.				1		Municipal						
	_				Problem (Y/N) No									
Remarks														
		roach Road / Embankment ast Now Explanation of Condition												
Horizontal Alignment			Last 5	NOW	Explanation of Condition Hwy 13 intersection 400 m N. No passing. Curve to the S - limited									
				5 5				sight distance. TWP Rd 461 A int 50m S.						
· · · · · · · · · · · · · · · · · · ·			10.000		5	5								
Roadway Width (m)		10.000			_									
Embankment					7	7	Grade	to the N s	starts a	it 250 m N. 4:1	sideslope the	n a 10 m bench		
Sideslope (:1)		3.0			both sides with a 3:1 sideslope at toe.									
(Height of Co	ver(m) :	: 1)												
Guardrail (Y/N)			No											
Approach Roa	ad / Eml	bankmen	t General Rat	ing	5	5								
				-										
Culvert Comp	onent				Last		am Enc	nation of	Condi	tion				
Direction					E				3 9 M M					
End Treatment	(Concre	ete, Steel	STEEL		-									
Others, None)	(= 0.101	, 0.001,												
Headwall					X	X								
Collar				X	Х									
Wingwalls					X	X								
(Shape :)														
Cutoff Wall					X	Х								

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End			6							
Heaving (mm)	200									
Invert Above/Below Stream Bed	ABOVE			Beaver control device placed on inlet.						
Above/Below (mm)	100									
Scour Protection		N	6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion			6							
Beavers (Y/N)	No									
Upstream End General Rating	1	6	6							
		Brid	dae Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Sn			, Rise (mm): 1724, Type: SP)						
Barrel Last Accessible Date	23-Mar-2006		,	Could not access due to water level. D/S outlet is 500mm from crown. Depth of water is 500mm at inlet; viewed from ends, shape looks OK.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type :)										
Roof		N	N							
Measured Rise (mm)	1875									
Measured At Ring No.				(23Mar2006).						
Sag (mm)	26									
Percent Sag	1									
Sidewall		N	N	(Sidewall has leakage through seams. 23-Mar-2006).						
Measured Span (mm)	1758									
Measured At Ring No.										
Deflection (mm)	34			(23Mar2006).						
Percent Deflection	2									
Floor		N	N							
Bulge (mm)	0		1.1							
Measured At Ring No.	-			1						
Abrasion (Y/N)	No			1						
Circumferential Seams		N	N							
Separation (mm)	0	IN	IN							
Longitudinal Seams	•	NI	NI							
Total No. of Cracked Rings	0	N	N							
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	Yes			1						
Longitudinal Stagger (Y/N)	Yes			1						
Coating		N	N	(Scaling & some pitting lower 1/4. 23-Mar-2006).						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

73048 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp	ban (mm):	, Rise (mm): 1724, Type: SP)
Ponding (Y/N)	Yes			High normal water level.
Fish Passage Adequacy			6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			N	
		D	ownst	ream End
Culvert Component			Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	5	Bevel projects 200 mm from fill.
Heaving (mm)	70			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	N	5	
			Structu	re Usage
			Now	
Channel (U/S and D/S)	1	120.01	1.1011	
Alignment		7	7	
Bank Stability			5	Timber guide banks at D/S (old bridge abutment). Cut banks @ D/S between culvert & guide banks, but stable. Culvert set on steeper grade than channel.
HWM (m below Top of Culvert)	0.3			
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading				Can't determine deg. or agg.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Con	nments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC)FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		55.6/55.0	.6 Sufficiency Rating (Last/No. (%)	ow) 5	3.2/53.0	Est. Repl. Yr 2030		Maint. Reqd. (Y/N) No		No	
Special Comments for Next Inspection		Department Comments									
Maintenance Reviewed By					Date		E	stimated Total	0		
Proposed Long-Term Strategy					· · · · ·						
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen S	Salava		Assistant's Name							
Next Inspection Date 0		2014		Previous I	nspection Date	08-Dec-2010					
Inspection Cycle (Default) (months) 2											
Comment											