				Bri	dge Cul	vert Insp	ection										
Bridge File Nun	nber	07777 -	1 Bridge Culve			Form Type		CULE									
Year Built		1977				Lot No		2	2								
Bridge or Town	Name	GRAND	E PRAIR			Inspec	tor Name	Russel Vanderschaaf									
Located Over		TRIBUT	ARY TO BEAR	R RIVER,	,		tor Class	BR CLS B	BR CLS B								
			18.2.2, WATE			Assist	ant Name										
Located On		43:04 R	1 7.825;43:04	L1 7.823		Assist	ant Class										
Water Body Cl.						Inspec	tion Date	29-Nov-2012									
Navigabil. CI./Y						Data E	Entry By	Theresa Lacu	sta								
Legal Land Loc						Data E	Entry Date	17-Dec-2012									
Longitude, Latitude -118:40:20, 55:13:44						Review	wer Name	Eric Carcoux	Eric Carcoux								
Road Authority Alberta Transportation (AIT)						Review	w Date	17-Dec-2012									
Contract Main.		CMA05				Dept.	Reviewer Name	Steve Pasqua	in								
Clear Roadway	//Skew	28.7 /			Dept. Review Date			03-Jan-2013									
AADT/Year		5,880/2				- Follow	-Up Ву										
Road Classifica		RAD-41	2.4-120			_											
Detour Length		1															
Bridge Culvert			1														
Pipe #	Barrel		Span	Rise (or Dia.) Туре	•	Length	Corr. Profile	PI./Slab Thickness	Shape							
1	MAIN		-	2100	SP		49.4	152X51	3.5	ROUND							
1	D/S		_	2200	MP		79	152X25	3.5	ROUND							
Special Feature																	
Utility Attachme Telephone	ents S. r/w				Jtilities	(Located) Gas	l at)										
Power	N r/w	4 wire.				Munic	ipal										
Others						Proble	m (Y/N) No										
Remarks																	
				٨													
							ankment										
Horizontal Alignment						/ Expla	nation of Cond	ition									
					st Nov	/ Expla		ition									
Vertical Alignm				Las	st Nov	/ Expla RR 52	nation of Cond										
	ent		31.100	Las 7	st Nov	RR 52	nation of Cond , 200m East.	4.8.									
Vertical Alignm	ent		31.100	Las 7	st Nov 7 7	V Explan RR 52 Servic 13.0m Barrie	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL	4.8.	should be rem	oved05-May-							
Vertical Alignm Roadway Width	ent n (m)		31.100 6.0	Las 7 7	st Nov 7 7	 Explain RR 52 Service 13.0m Barrie 2009 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL	4.8.	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment	ent n (m) _:1)	2.4)		Las 7 7	st Nov 7 7	v Explan RR 52 Servic 13.0m Barrie 2009 Erosio	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is br	4.8.	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) _:1) vver(m) :	2.4)		Las 7 7	st Nov 7 7	v Explan RR 52 Servic 13.0m Barrie 2009 Erosio	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is bi n control.	4.8.	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope ((Height of Co	ent n (m) _:1) vver(m) :		6.0 No	Las 7 7 7 8	st Nov 777777777777777777777777777777777777	v Explan RR 52 Servic 13.0m Barrie 2009 Erosio	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is bi n control.	4.8.	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) :1) vver(m) : 		6.0 No	Las	st Now 77 77 1 N 1 N 77 7 7	 Explanation RR 52 Service 13.0m Barrie 2009 Erosice Snow 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is binn n control. covered.	1.8. roken apart and	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) :1) vver(m) : 		6.0 No	Las 7 7 7 1 7 1 7 1 7 1 7 1 7 1 1 7 1 1 7 1 7 1 7 7 1 7	st Now 77 77 1 N 1 N 77 7 7	 Explanation RR 52 Service 13.0m Barrie 2009 Erosice Snow 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is br n control. covered.	1.8. roken apart and	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) _:1) vver(m) : nd / Eml	pankmer	6.0 No ht General Rat	Las	st Now 77 77 1 N 1 N 77 7 7	 Explanation RR 52 Service 13.0m Barrie 2009 Erosice Snow 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is binn n control. covered.	1.8. roken apart and	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) _:1) vver(m) : nd / Eml	pankmer	6.0 No ht General Rat	Las 7 7 7 1 7 1 7 1 7 1 7 1 7 1 1 7 1 1 7 1 7 1 7 7 1 7	st Now 77 77 1 N 1 N 77 7 7	 Explanation RR 52 Service 13.0m Barrie 2009 Erosice Snow 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is binn n control. covered.	1.8. roken apart and	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) _:1) vver(m) : nd / Eml	pankmer	6.0 No ht General Rat	Las 7 7 7 1 7 1 7 1 7 1 7 1 7 1 1 7 1 1 7 1 7 1 7 7 1 7	st Now 77 77 10 11 10 10 10 70 77 70 77 70 77 70 70 70 70 70 70 70	V Explan RR 52 Servic 13.0m Barrie 2009 Erosic Snow ream Endor Explan Explan	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is binn n control. covered.	1.8. roken apart and	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) _:1) vver(m) : nd / Eml	pankmer	6.0 No ht General Rat	ting 7	st Now 77 77 10 11 10 10 10 10 10 10 10 10 10 10 10	 Explan RR 52 Servic 13.0m Barrie 2009 Erosic Snow 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is binn n control. covered.	1.8. roken apart and	should be rem	oved05-May-							
Vertical Alignm Roadway Width Embankment Sideslope (ent n (m) _:1) vver(m) : nd / Eml	pankmer	6.0 No ht General Rat	Las 7 7 7 N Las N	st Now 77 77 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	 Explan RR 52 Servic 13.0m Barrie 2009 Erosic Snow 	nation of Cond , 200m East. e road u/s end 4 EBL, 13.3 WBL r at d/s end is binn n control. covered.	1.8. roken apart and	should be rem	oved05-May-							

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall		X	X						
Bevel End	Bevel End		7	Covered by drifted snow.					
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm) 500									
Scour Protection		N	N	Riprap shifted @ W., exposing geotextile (photo) riprap in barrel05-					
(Type : RIP RAP)				May-2009					
(Avg. Rock Size(mm) : 200)				Snow covered.					
Scour/Erosion			N	Scour on both sides of barrel 1x2x3 at W. side05-May-2009					
	N								
Beavers (Y/N)	No			Snow covered.					
			1						
Upstream End General Rating		3	3	GR carried over-05-May-2009					
				lvert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2100, Type: SP)					
Barrel Last Accessible Date	29-Nov-2012			Inaccessible, end drifted in with snow, d/s portion ice. 2.0m from crown.					
Special Features		1							
Special Feature									
(Type :)		1	1						
Special Feature									
(Type :)		1	1						
Roof		N	7	At C.L. EBL					
Measured Rise (mm)				Ice covered, risde estimated.					
Measured At Ring No.				outward deflection.					
Sag (mm)	62								
Percent Sag	3		1						
Sidewall	1	N	7	At C.L. EBL R4 from csp					
Measured Span (mm)	2038								
Measured At Ring No.				Inward deflection					
Deflection (mm)	62			-					
Percent Deflection	3		1						
Floor	1	N	N	ice covered					
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N)	No		1						
Circumferential Seams		N	7						
Separation (mm)	20								
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)	No								
Longitudinal Stagger (Y/N)	No								
Coating		N	7						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								

Bridge Inspection & Maintenance System (Web 2005)

07777 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN,			, Rise (mm): 2100, Type: SP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		X	X							
(Type:)										
Waterway Adequacy		N	7							
Icing (Y/N)	No									
Silting (Y/N)	No			1						
Drift (Y/N)	No									
Barrel General Rating		N	7							
_		Dric		Ivert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loc	ation Code: D/S, Sr			Rise (mm): 2200, Type: MP)						
Barrel Last Accessible Date	29-Nov-2012			U/S portion ice 1.46m from crown.						
Special Features										
Special Feature										
(Type :)		I								
Special Feature										
(Type:)										
Roof		N	8	At C.L. EBL						
Measured Rise (mm)				Estimated due to ice						
Measured At Ring No.				Outward deflection						
Sag (mm)	9									
Percent Sag	0									
Sidewall		N	8	At C.L. EBL						
Measured Span (mm)	2194			R4 from CSP Inward deflection.						
Measured At Ring No.										
Deflection (mm)	6									
Percent Deflection	0									
Floor		N	N	Ice covered.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	7							
Separation (mm)	20									
Longitudinal Seams		Х	7							
Total No. of Cracked Rings				_						
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		N	7							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									

Bridge Inspection & Maintenance System (Web 2005)

07777 -1 Bridge Culvert

				livert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		Span (mm):	,	Rise (mm): 2200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Туре :)				
Waterway Adequacy		N	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratir	ng	N	7	
				ream End
Culvert Component			Now	Explanation of Condition
Direction		S		-
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	Covered by snow.
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rati	ng	7	7	
		Structu		re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			_	
Alignment		6	6	
Bank Stability		6	N	U/S banks sloughing05-May-2009 Snow covered.
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	Yes			
Channel Bottom				Stable.
Degrading/Aggrading				_
Beavers (Y/N)	No			
(Fish Compensation Measure 1	NONE)			_
(Fish Compensation Measure 2 :	NONE)			

Structure Usage									
	Last Now Explanation of Condition								
Channel General Rating	6	6							

07777 -1 Bridge Culvert

				Maintenance Re	ecommend	lations						
Inspector Recommendations		Year	Inspecto	r Comments		Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP		2013	2m3 Cla	ss 1, carried over 05-May-20	009							
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2013	Remove May-200	silt fence at d/s endcarried	d over 05-							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/77.8	8	Sufficiency Rating (Last/ (%)	Now)	68.0/71.5	Est	. Repl. Yr	2034	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Russel Vanderschaaf Prev				Previous	Assistant's Name							
Next Inspection Date	29-Aug-2014				Previous	vious Inspection Date 08-Mar-2011						
Inspection Cycle (Default) (months)	21											
Comment												