					Brida	e Culve	ert Inspe	ection				
Bridge File Nur	mber	81643 -1	Bridge Culve	rt					CULM			
Year Built		1991							4			
Bridge or Town	n Name	TILLEY					Inspect	or Name	Tom Carey			
Located Over TRAIL-ANIMAL, OVER SP							Inspector Class		BR CLS A			
Located On 1:18 R1 41.654;1:18 L1 41.676							Assistant Name					
Water Body Cl./Year							Assistant Class					
Navigabil. Cl./Y	<i>r</i> ear						Inspection Date		10-Feb-2012			
Legal Land Location SE SEC 12 TWP 17 RGE 12 W4				4M		Data Entry By		Alyssa Boynton				
Longitude, Latitude -111:31:07, 50:25:05						Data E	ntry Date	26-Mar-2012				
Road Authority Alberta Transportation (AIT)							Reviewer Name		Garry Roberts			
Contract Main. Area CMA23							Review Date		27-Feb-2012			
Clear Roadway/Skew 25 /						Dept. Reviewer Name		Tim Davies				
AADT/Year 6,170 / 2011 (A)						Dept. F	Review Date	29-Mar-2012				
Road Classifica	ation	RAD-412	2.4-120				Follow-	Up By				
Detour Length	(km)	1										
Bridge Culver	t Inform	ation										
Number of Culv	verts	2	2									
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-	,	2200		MP		68	125X26	2.8	ROUND	
2	MAIN	-		2200		MP		68		2.8	ROUND	
Special Feature	es											
Special Feature	es Comr	nent			Po	sting l	nformati	on				
Required Vert.	Clearan	co Postin	vg (m)		F 0	Sung n	nonnau	on				
Posted Vertical												
Posted: Lane			ridge (m)	In Adv	ance (No L	ane SB (On Bridge (m)	In Advar	nce (Y/N) No	
Remarks	Not re					1/11)				III Adval		
Remains	Notife	quireu			1 1+i	litios (l	ocated	at)				
Utility Attachme	ents				01	iities (i		at <i>)</i>				
Telephone		n (N R/W	fibre optic)				Gas					
Power		•	ROM C.L.				Municipal					
Others		TING IN E					Problem (Y/N) No					
Remarks	_		s pipe for plug	naina in								
	lights	at mediar	וס אוייס אוייס ר	999								
1				A	pproad	ch Road	ad / Embankment					
					Last	Now	Explan	Explanation of Condition				
Horizontal Alig					7	7	Farmer	ER PIPE.				
Vertical Alignm					9	9						
Roadway Widtl	h (m)		26.000									
Embankment					8	8	500mm	500mm coulor @ modice				
	•1)		40		δ		500mm cover @ median					
	Sideslope (:1) 4.0						1					
(Height of Cover(m) : 1.4) Guardrail (Y/N) Yes												
Guardrail (Y/N)		1.4)	Yes									
Guardrail (Y/N) Approach Roa)			ing	7	7						
)			ing			am <u>End</u>					
) ad / Emb			ing		Upstre	am End Explan		tion			
Approach Roa) ad / Emb onent	bankmen	t General Rat	ing		Upstre	1	ation of Cond	tion			
Approach Roa) ad / Emb onent	bankmen	t General Rat	ing		Upstre	Explan	ation of Cond	tion			
Approach Roa Culvert Comp (Pipe # : 1, Sp) onent oan Type	oankmen e: Primar	t General Rat	ing	Last	Upstre	Explan		tion			

			Upstre	eam End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Headwall		X	X	
Collar		X	Х	
Wingwalls			X	
(Shape:)		X		
Cutoff Wall		X	X	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
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	
		Dut		
Culvert Component		Last		Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sn:			, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	10-Feb-2012		·/·	WEST PIPE.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Isolated 100 mm dent @ 1st SEAM.
Measured Rise (mm)	2240			
Measured At Ring No.	2			
Sag (mm)	0			Est
Percent Sag	1			
Sidewall		7	7	Inward
Measured Span (mm)	2160		-	1
Measured At Ring No.				1
v	2			
Deflection (mm)	2 40			
Deflection (mm) Percent Deflection				
	40	N	N	dirt COVERED.
Percent Deflection Floor	40	N	N	dirt COVERED.
Percent Deflection Floor Bulge (mm)	40	N	N	dirt COVERED.
Percent Deflection Floor	40	N	N	dirt COVERED.
Percent Deflection Floor Bulge (mm) Measured At Ring No.	40	N 6	N 6	dirt COVERED. DISTORTION @ 1st SEAM - 100mm. at North end.

Alberta Transportation

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			, Rise (mm): 2200, Type: MP)
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		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy	1	Х	X	
Baffle		X	Х	
(Type :)				1
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			1
Barrel General Rating	1	7	7	
			ownst	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1_000	1	
Direction	· · · · · ·	S		SOUTH END WEST PIPE.
End Treatment (Concrete, Steel, Others, None)	STEEL	_		
Headwall	1	Х	X	
Collar		X	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ration	ng	7	7	

Alberta Transportation

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second				
Direction		N		E. pipe, NORTH END.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	X	
(Shape :)		~	~	
Cutoff Wall		Х	X	
Bevel End		7	7	Superficial rust starting @ soil-line.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
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	
		Brie	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Dino # + 2 Secondary Span La			······	
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	ipan (r	nm):	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	Distance Science Scien	pan (r	<u>nm):</u>	East pipe
		pan (r	<u>mm):</u>	
Barrel Last Accessible Date		pan (r		
Barrel Last Accessible Date Special Features		pan (r		
Barrel Last Accessible Date Special Features Special Feature		pan (r		
Barrel Last Accessible Date Special Features (Type :)		pan (r		
Barrel Last Accessible Date Special Features (Type :) Special Feature		7		East pipe Small hole torched 1m N. of mid to
Barrel Last Accessible Date Special Features (Type :) Special Feature (Type :)				East pipe
Barrel Last Accessible Date Special Features (Type :) Special Feature (Type :) Roof	10-Feb-2012			East pipe Small hole torched 1m N. of mid to
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No.	10-Feb-2012			East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features (Type :) Special Feature (Type :) Roof Measured Rise (mm)	10-Feb-2012			East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)	10-Feb-2012 2183 3 17			East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag	10-Feb-2012 2183 3 17	7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)	10-Feb-2012 2183 3 17 1	7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.	10-Feb-2012 2183 3 17 1 2200	7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)	10-Feb-2012 2183 3 17 1 2200 3	7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection	10-Feb-2012 2183 3 17 1 2200 3 0	7 7 7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord. Est.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor	10-Feb-2012 2183 3 17 1 2200 3 0	7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	10-Feb-2012 2183 3 17 1 2200 3 0	7 7 7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord. Est.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	10-Feb-2012 2183 3 17 1 2200 3 0	7 7 7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord. Est.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N)	10-Feb-2012 2183 3 17 1 2200 3 0	7 7 7 	7 7 7 7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord. Est.
Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	10-Feb-2012 2183 3 17 1 2200 3 0	7 7 7	7	East pipe Small hole torched 1m N. of mid to accomodate electrical cord. Est.

Alberta Transportation

		Bric	lge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 2200, Type: MP)
Longitudinal Seams		Х	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	SUPERFICIAL CORROSION @ BEVELS.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Type:)			1	
Waterway Adequacy	I	7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		South end - east pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	SUPERFICIAL CORROSION @ FLOOR OF BEVEL - seen at
Heaving (mm)	0			haunches.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			

Structure Usage									
			Now	Explanation of Condition					
Grade Separation									
Road Alignment	Road Alignment		X						
Roadway Surface		7	7						
(Туре:)									
Icing (Y/N)	Yes			Ice at 3040 of floors.					
Traffic Safety Features	Traffic Safety Features		Х						
Туре									
Lighting		6	6	Swallow nestst blocking lights					
				Attached to roofs.					
Barrel Leakage (Y/N) No									
Drainage		7	5						
Structure In Use (Y/N) Yes									
Grade Separation General Rati	ng	7	5						

			Maintenance Red	commend	lations					
Inspector Recommendations		Year	Inspector Comments		Department Com		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		77.8/77.8	8 Sufficiency Rating (Last/N (%)	y Rating (Last/Now)		Est. Repl. Yr 2040		Maint. Reqd. (Y/N)		No
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	Garry F	Roberts		Previous <i>J</i>	ous Assistant's Name					
Next Inspection Date	10-Nov	-2013		Previous	Inspection Date	15-Jul-2010				
Inspection Cycle (Default) (months)	21									
Comment										