				=	Brida	e Culve	ert Inspec	ction					
Bridge File Nu	umber	70117 -	1 Bridge Culve		Jinag	c ourv	Form Ty			CULM			
Year Built		1986	i Bhage Gaite				71		4				
Bridge or Tow	n Name						Inspecto	r Name		Kris Bosters			
Located Over							Inspecto			BR CLS A			
		8.11.84.	.30.18, WATE	RCRS-ST	••		Assistant Name		DICOLO //				
Located On		757:04 (	C1 6.640				Assistan	t Class					
Water Body C	Cl./Year						Inspectio	on Date		20-Jul-2012			
Navigabil. Cl./	/Year						· ·			Theresa Lacusta			
Legal Land LocationNW SEC 19 TWP 57 RGE 6 W5MData Entry Date15-Aug-2012Longitude, Latitude-114:53:41, 53:56:36Reviewer NameEric CarcouxRoad AuthorityAlberta Transportation (AIT)Review Date06-Aug-2012Contract Main. AreaCMA12Dept. Reviewer NameBrent HerrickClear Roadway/Skew10.2 /Jood 2011 (A)Dept. Review Date16-Aug-2012AADT/Year310 / 2011 (A)Follow-Up ByFollow-Up ByRoad ClassificationRCU-209-110Follow-Up ByFollow-Up ByDetour Length (km)6Follow-Up ByFollow-Up ByPipe #BarrelSpanNumber of Culverts4LengthCorr. Profile1MAIN-1600MP2668X132MAIN-1600MP2368X133MAIN-1600MP2368X13													
Road Authorit							Review	Date		06-Aug-2012			
Contract Mair							Dept. Re	eviewer Na	ame				
Clear Roadwa	ay/Skew	10.2 /											
AADT/Year		310 / 20	11 (A)				· ·						
			9-110				_						
		i											
Pipe #	Barrel	:	Span	Rise (or D	ia.)	Туре		Length		Corr. Profile		Shape	
1	MAIN		_	1600		MP		26		68X13		ROUND	
•			_					-			-		
											-		
-				1000		111		20		00/10	2.0	Roond	
Utility Attachn		ment	o pipe tagged			ilities (L	Located a	at)					
Telephone	West	& East r/	w				Gas						
Power	west	r/w - 3 wii	re.				Municipal						
Others									lo				
Remarks													
				Арр	oroad	ch Road	d / Embai	nkment					
				L	ast	Now	Explana	tion of Co	ondi	tion			
Horizontal Ali	gnment				9	9	No pass	ing NB					
Vertical Align	ment				7	7	There ar 60m apa	re 2 pair of art - 200m	f pipe Sou	es approx. th of BF 09309			
Roadway Wid	lth (m)		10.000										
Embankment					7	7							
Sideslope (	:1)		4.0				_						
(Height of C	Cover(m)	: 1.2)											
Guardrail (Y/N	N)		No										
Approach Ro	oad / Eml	bankmer	nt General Ra	ating	7	7							
						Upstre	am End						
Culvert Com				Rise (or Dia.) Type Length Corr. Profile PI./Slab Thickness Shape Shape   1600 MP 26 68X13 2.8 ROUND   1600 MP 23 68X13 2.8 ROUND   ged on u/s crown. Gas Municipal Problem (Y/N) No No   Figure 1 Gas   Municipal Problem (Y/N) No No   Figure 2 pair of pipes approx. 60m apart - 200m South of BF 09309.   Gas   7 7   7 7 7 7									
(Pipe # : <b>1,S</b>	pan Typ	e: Prima	ry Span)										
Direction				V	Ν		South pi	pe.					
End Treatmer Others, None	nt (Concr )	ete, Stee	I, STEEL										
Headwall					Х	X							
							1						

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primar	y Span)			
Collar		Х	Х	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0		-	
Invert Above/Below Stream Bed				
Above/Below (mm)	200			
Scour Protection	1	8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
				lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Sp	an (mm	ı):	, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	20-Jul-2012			Pipe 1 (south). 1/2 full of water.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		5	5	
Measured Rise (mm)			Ū	
Measured At Ring No.				est. silt on floor.
Sag (mm)	110			1
Percent Sag	6			
Sidewall		5	5	Near CL.
Measured Span (mm)	1710			
Measured At Ring No.				1
Deflection (mm)	110			1
Percent Deflection	7			1
Floor		N	N	Too much water to view.
Bulge (mm)	0			
Measured At Ring No.				1
Abrasion (Y/N)	No			1
Circumferential Seams		N	7	
Separation (mm)	50			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings			~	
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cui	lvert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa			, Rise (mm): 1600, Type: MP)
Coating		5	N	Superficial rust on lower 1/2, could not view floor.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			0.6m
Fish Passage Adequacy		X	X	
Baffle		Х	Х	
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
			ownetr	eam End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	Span)			
Direction	• /	E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		X	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		8	8	
(Type : NATURAL)				
(Avg. Rock Size(mm) : )			-	
Scour/Erosion		8	8	
Beavers (Y/N)	No		1	
Downstream End General Ratir	ıg	8	8	
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	

			Upstre	eam End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	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		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating	1	8	8	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	20-Jul-2012		,	
Special Features				
Special Feature				Pipe 2.
(Type:)			_	
Special Feature				
(Type : )				
Roof		5	4	
Measured Rise (mm)				
Measured At Ring No.				Est silt on floor.
Sag (mm)	125			
Percent Sag	8			
Sidewall		5	4	Near CL.
Measured Span (mm)	1725			
Measured At Ring No.				-
Deflection (mm)	125			-
Percent Deflection	8			1
Floor		N	N	To much water to view.
Bulge (mm)	0	14	IN	
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	50	IN	0	
	00	X	X	
Longitudinal Seams		~	Λ	
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)				

Bridge Inspection & Maintenance System (Web 2005)

70117 -1 Bridge Culvert

		Brid	age Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: M	AIN, Span (r	nm):	, Rise (mm): 1600, Type: MP)
Coating		5	N	Superficial rust on lower 1/2, too much water to view.
Corrosion By Soil (Y/N)	No			_
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			0.5m deep
Fish Passage Adequacy		X	X	
Baffle		X	Х	_
(Туре : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	4	
			1	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		E		_
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	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		8	8	
(Type : NATURAL)				
(Avg. Rock Size(mm) : )				
Scour/Erosion		8	8	
Beavers (Y/N)	No		1	
Downstream End General Ratin	ng	8	8	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		W		-
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	Х	
Bevel End	I	8	8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	200			
Scour Protection		8	8	_
(Type : <b>RIP RAP</b> )				-
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating	1	8	8	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	span (r		, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	16-Nov-2005			Pipe 3. 1/2 full of water, viewed from ends, appears to be no change.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		5	N	Est. silt on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	120			
Percent Sag	8			
Sidewall		5	N	Near CL.
Measured Span (mm)	1720			
Measured At Ring No.				
Deflection (mm)	120			1
Percent Deflection	8			1
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			1
Circumferential Seams		N	N	
Separation (mm)	40			
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)				

Bridge Inspection & Maintenance System (Web 2005)

70117 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : <b>3, Secondary Span, Lo</b>	cation Code: MAIN,			, Rise (mm): 1600, Type: MP)
Coating		5	N	Superficial rust on lower 1/2, water too deep to view.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		X	Х	
(Туре : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	-	N	4	At 8% deflection, GR should be 4.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	8	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rati	ng	8	8	
			Upstre	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 4, Span Type: Second	lary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		Х	Х	
Bevel End	I	8	8	-
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	200			
Scour Protection		8	8	_
(Type : <b>RIP RAP</b> )				_
(Avg. Rock Size(mm) : 200)		1	-	
Scour/Erosion		8	8	
	<b>N</b> 1			
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
	I			Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	20-Jul-2012			Pipe 4 (north).
Cupatial Factures				
Special Features				
Special Feature				
(Type:)				-
Special Feature				
(Type:)		-	-	
Roof	4500	7	7	
Measured Rise (mm)	1530			near CL
Measured At Ring No.				-
Sag (mm)	30			-
Percent Sag	2			
Sidewall		7	7	Near CL.
Measured Span (mm)	1670			-
Measured At Ring No.				-
Deflection (mm)	70			-
Percent Deflection	4			
Floor		N	N	
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No		_	
Circumferential Seams		N	7	
Separation (mm)	50			
Longitudinal Seams		X	Х	
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)				

Bridge Inspection & Maintenance System (Web 2005)

70117 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	cation Code: MAIN,	Span (r	nm):	, Rise (mm): 1600, Type: MP)
Coating		6	6	Minor superficial rust on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			0.3m
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Туре : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Second	ary Span)			
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		X	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	8	
(Type : NATURAL)				
(Avg. Rock Size(mm) : )				
Scour/Erosion		8	8	
Beavers (Y/N)	No		1	
Downstream End General Ratio	ng	8	8	
		9	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)	0.2			Water marks about 0.2m from crown of pipe 4.
Drift (Y/N)	No			
				1

## Bridge Inspection & Maintenance System (Web 2005)

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading				stable				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

			Maintenance Rec	commend	ations					
Inspector Recommendations	Inspector Comments		Department Com	ments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTC	DFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	Structural Condition Rating (Last/Now) 55.6/4 (%)		4 Sufficiency Rating (Last/N (%)	low) 6	<b>69.0/64.0</b> Est. Repl. Yr 2030		2030	Maint. Reqd. (Y/N)		No
Special Comments for Next Inspection	omments for				Department Comments					
Maintenance Reviewed By					Date	Estimated Total 0				
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Arnold A	Assenhe	imer	Previous /	us Assistant's Name					
Next Inspection Date	20-Oct-2	2015		Previous I	Inspection Date 29-Apr-2011					
Inspection Cycle (Default) (months)	39									
Comment										