					Brida	e Culve	ert Inspe	ection					
Bridge File Nun	1 Bridge Culver				Form Type		CULM						
Year Built		1971						Lot No.		4			
Bridge or Town	Name	MAYER	THORPE				Inspector Name		Arnold Assenheimer				
Located Over		20 26 WATEDODS ST				Inspector Class Assistant Name		BR CLS A					
Located On		647:02 0	C1 24.801				Assistant Class						
Water Body Cl.	/Year						Inspection Date		27-Jul-2012				
Navigabil. Cl./Y	ear						Data Entry By		Theresa Lacus	sta			
Legal Land Loc	ation	SW SEC	C 5 TWP 57 RG	GE 8 W5M				Data Entry Date 13-Aug-2012					
Longitude, Latit	ude	-115:09:	37, 53:53:23	7 52.52.22						Eric Carcoux			
Road Authority		Alberta -	Transportation (AIT)					Reviewer Name Review Date		30-Jul-2012			
Contract Main.	Area						Dept. Reviewer Name						
Clear Roadway	/Skew	7.9 / 45	deg. (RHF)				Dept. Review Date			16-Aug-2012			
AADT/Year		450 / 20					Follow						
Road Classifica	tion	RCU-20	9-110					-1 2					
Detour Length ((km)	6											
Bridge Culvert													
Number of Culv			2								1		
•	Barrel		Span Rise (or Dia		Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
	MAIN	· ·	-	1220		MP		26.8		68X13	2.8	ROUND	
2 Special Feature	MAIN	· · ·	-	1220		MP		26.8		68X13	2.8	ROUND	
Special Feature Utility Attachme	ents				Uti	ilities (L		at)					
Telephone	South						Gas						
Power	2 wire	s North r	/w.				Munici						
Others						Proble	m (Y/N) N	0					
Remarks				A 10									
					Last	Now	1	ankment ation of Co	ndi	tion			
Horizontal Aligr	ment				9	9	Explai		/Itali				
Vertical Alignme					8	8	-						
Roadway Width			7.900										
Embankment					Ν	8							
Sideslope (:1)		3.0										
(Height of Co	ver(m) :	1.5)											
Guardrail (Y/N)			No			_							
Approach Roa	d / Eml	bankmer	nt General Rat	ing	8	8							
							am End						
Culvert Compo (Pipe # : 1, Spa		e: Prima	ry Span)		Last	Now	Explan	ation of Co	ondi	tion			
Direction					N		West p	ipe.					
End Treatment (Concrete, Steel, S Others, None)		I, STEEL											
Headwall					Х	X							
Collar					Х	X							
Wingwalls					Х	Х							
(Shape:)							L						

(Pripe : 1. Span Type: Primary Span)Cutoff WallXXXCutoff WallXXXBeave End50							
Cundit WallXXXXBevel End907Heaving (mm)907Above Below (mm)1005Above Below (mm)1005Cour ProtectionN5(Type, RIP RAP)N5Gour Erroscion (Manage Course)N5Beavers (YAN)NoSBeavers (YAN)NoSSpecial FeaturesSCotage Construct (Type :)SSpecial FeaturesSCrosse Construct (Type :)SSpecial FeaturesSCrosse Construct (Type :)SSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSSpecial FeaturesSResured Ri	Culvert Component		Last	Now	Explanation of Condition		
Beave EndN7Heaving (mm)607Sour ProtocitionN7Sour ProtocitionN5Sour ProtocitionN5Grow Reak Size(mm) : 2000N5Sour ProtocitionN5Baavers (Y/N)No5Baavers (Y/N)No5Culvert ComponentEntropy Culvert BarrotCulvert Component27-Jul-2012File (standard)Special Feature27-Jul-2012File (standard)Special Feature77Special Feature77Type : J77Measured At Ring No.1605Seder Sign (mm)1605Measured Sign (mm)12607Measured Sign (mm)12607Measured At Ring No.5Seder Sign (mm)12607Measured Sign (mm)12607Measured Sign (mm)12607Measured At Ring No.5Seder Sign (mm)12607Measured At Ring No.5Segn (mm)12607Measured Sign (mm)12607Measured Sign (mm)1267Measured At Ring No.5Segn (mm)1267Measured At Ring No.5Segn (mm)1265Measured Sign (mm)126Measured At Ring No.5Segn (mm)126Measured At Ring No.5Measured Sign (mm)<		/ Span)					
Heaving (mm) 90 90 Invert Above Below (mm) 100 Sour Protocition N 5 Group Frontie Map N 5 Beavers (Y/N) No 5 Culvert Component Ent Ext Now Explanation of Condition Culvert Component Ent Ext Now Explanation of Condition Group Frontie Map 27-Jul-2012 Frontie Map Special Feature 27-Jul-2012 Frontie Map Group Frontie Frontie 7 7 Measured Rise (mm) 1180 7 Measured Rise (mm) 1260 7 Measured Ring No. 7 7	Cutoff Wall		X	X			
Inver, Above/Belov (rmn) 100 a second Protocolor (rmn) 100 a second Protocolor (rmn) 100 a second Protocolor (Avg. Rock Size(nm): 200 b second Protocolor (Bevel End		N	7			
Inver, Above/Belov (rmn) 100 a second Protocolor (rmn) 100 a second Protocolor (rmn) 100 a second Protocolor (Avg. Rock Size(nm): 200 b second Protocolor (50					
Above/Balow (mm)100Image: state in the state in t							
Scour ProtectionN5(Type RIP RAP) (Vay. Rock Steelem) : 2000N5GouvErosionN5Beavers (V/N)NoVBarel General RatingA5Cuivert ComponentLastNovCuivert ComponentLastNovBarel Last Accessible Date27-Jul-2012SteelemSpecial FeaturesImage: Cuivert BarrelSteelemSpecial FeaturesImage: Cuivert ComponentRise (mm): 1220, Type: MP)Barrel Last Accessible Date27-Jul-2012SteelemSpecial FeaturesImage: Cuivert ComponentImage: Cuivert ComponentCrype :)Image: Cuivert ComponentImage: Cuivert ComponentSpecial FeaturesImage: Cuivert ComponentImage: Cuivert ComponentSpecial FeaturesImage: Cuivert ComponentImage: Cuivert ComponentCrype :)Image: Cuivert ComponentImage: Cuivert ComponentSpecial FeatureImage: Cuivert ComponentImage: Cuivert ComponentCrype :)Image: Cuivert ComponentImage: Cuivert ComponentSpecial FeatureImage: Cuivert ComponentImage: Cuivert ComponentSpecial FeatureImage: Cuivert ComponentImage: Cuivert ComponentRoofImage: Cuivert ComponentImage: Cuivert ComponentRoofImage: Cuivert ComponentImage: Cuivert ComponentRoofImage: Cuivert ComponentImage: Cuivert ComponentSpecial FeatureImage: Cuivert ComponentImage: Cuivert ComponentSpecial FeatureImage: C							
(Avg. Rock Size(nm): 200)N5Secure FractionVertical Size (nm): 200)Upstream End General RatingColspan="2"Upstream End General RatingVertical Size (nm): 120, rype: MP)Colspan="2">Secure FaturesSpecial FeaturesSpecial Feature(Pipe 1: 1, Primary Span, Loc Vertical MAIN, Span (nm): 1220, Type: MP)Special FeaturesSpecial Feature(Type :)Special Feature(Pipe :)Speci			N	5			
(Avg. Rock Size(nm): 200)N5Secure FractionVertical Size (nm): 200)Upstream End General RatingColspan="2"Upstream End General RatingVertical Size (nm): 120, rype: MP)Colspan="2">Secure FaturesSpecial FeaturesSpecial Feature(Pipe 1: 1, Primary Span, Loc Vertical MAIN, Span (nm): 1220, Type: MP)Special FeaturesSpecial Feature(Type :)Special Feature(Pipe :)Speci	(Type : RIP RAP)						
Scour/ErosionNo5Beavers (Y(N)NoV	, , , , , , , , , , , , , , , , , 						
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Brid ge Cut vert BarrelCutivert ComponentLastNowExplanation of Condition(Pipe 1: 1, Primary Span, Location Code: MAIN, Span (mm):Rise (mm): 1220, Type: MP)Barrel Last Accessible Date27-Jul-2012Rise (mm): 1220, Type: MP)Special FeaturesSpecial Feature(Pipe :)Special Feature(Pipe :)Roof77Roof77Measured Rise (mm)180	Upstream End General Rating		4	5			
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Special FeatureII(Type :)IISpecial Feature77(Type :)77Measured Rise (mm)1180IMeasured At Ring No.1ISag (mm)40IPercent Sag3ISidewall77Measured At Ring No.1260IDeflection (mm)1260IDeflection (mm)40IPercent Deflection3IPercent Deflection3IPercent Deflection3IPercent Deflection125ISeparation (mm)125ICitzumferential Seams77Separation (mm)125ITotal No. of Cracked RingIITotal No. of Cracked SeamsIITotal No. of Rings with Two Cracked SeamsIIFroent Legity(N)IIProper Lap (Y/N)IILongitudinal Stagger (Y/N)NoICoating54Proper Lap (Sil) (Y/N)NoNoICoating54NoNoStagent Langent Lan	Special Features						
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Special Feature (Type :)Image: Special Feature (Type :)Image: Special Feature (Type :)Roof118077Measured Rise (mm)1180 $$							
Total No.Total No.Total No. of Rings with Two Cracked RingsTotal No. of Rings with Two Cracked SeamsTotal No. of Rings with Two Cracked Seams <th <="" colspan="2" td=""><td></td><td></td><td></td><td></td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td></td>						
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Measured At Ring No.40 $titzed column biase of the sector o$		1180					
Sag (mm)40 $<$ Percent Sag3 $<$ SidewallT77Measured Span (mm)1260 $<$ Deflection (mm)40 $<$ Deflection (mm)40 $<$ Percent Deflection3 $<$ Floor66Bulge (mm)0 $<$ Measured At Ring No.0 $<$ Abrasion (Y/N)No $<$ Circumferential Seams77Separation (mm)125 $<$ Longitudinal SeamsXTotal No. of Kings with Two Between Cracks (mm) $<$ Min. Remaining Steel Between Cracks (mm) $<$ Proper Lap (Y/N) $<$ $<$ Coating $<$ $<$ Coating $<$ $<$ Coating $<$ $<$ Corrosion By Soil (Y/N)No $<$ Separation By Soil (Y/N)NoNo $<$ Proper Lap (Y/N)NoNo $<$ Proper Lap (Y/N) No Deflection By Soil (Y/N)NoNo $<$ Proper Lap (Y/N)NoNoDeflection By Soil (Y/N)NoNo $<$ Proper Lap (Y/N)NoNoProper Lap (Y/N)NoNoProper Lap (Y/N)NoDeflection By Soil (Y/N)NoDeflection By Soil (Y/N)NoDeflection By Soil (Y/N)NoDeflection By Soil (Y/N)							
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Sidewall777Measured Span (mm)1260 $$		3					
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Measured At Ring No.Image: Second Secon		1260					
Deflection (mm)40IPercent Deflection3IFloor66Bulge (mm)0IMeasured At Ring No.IIAbrasion (Y/N)NoICircumferential Seams77Separation (mm)125ILongitudinal SeamsXXTotal No. of Cracked RingsXXTotal No. of Cracked RingsIITotal No. of Rings with Two Cracked SeamsIIMin. Remaining Steel Between Cracks (mm)IIProper Lap (Y/N)IILongitudinal Stagger (Y/N)IICoating54Protosin By Soil (Y/N)NoI	· · · · · · ·						
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Measured At Ring No.NoAbrasion (Y/N)NoCircumferential Seams7Separation (mm)125Longitudinal SeamsXXXTotal No. of Cracked RingsXTotal No. of Cracked Rings		0					
Abrasion (Y/N)NoImage: Constraint of the series of t							
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Longitudinal Seams X X Total No. of Cracked Rings			7	7			
Longitudinal SeamsXXTotal No. of Cracked RingsITotal No. of Rings with Two Cracked SeamsIMin. Remaining Steel Between Cracks (mm)IProper Lap (Y/N)ILongitudinal Stagger (Y/N)ICoating54Corrosion By Soil (Y/N)No	Separation (mm)	125			<u> </u>		
Total No. of Cracked RingsImage: State S	Longitudinal Seams		X	Х			
Total No. of Rings with Two Cracked SeamsImage: SeamsIm							
Min. Remaining Steel Between Cracks (mm)Image: Steel Setween Cracks (mm)Image: Steel Setween Cracks (mm)Proper Lap (Y/N)Image: Steel Setween Cracks (mm)Image: Steel Setween Cracks (mm)Longitudinal Stagger (Y/N)Image: Steel Setween Cracks (mm)Image: Steel Setween Cracks (mm)Coating54Corrosion By Soil (Y/N)NoImage: Steel Setween Cracks (mm)							
Proper Lap (Y/N) Image: Consting to the second se							
Longitudinal Stagger (Y/N) 5 4 Coating 5 4 Corrosion By Soil (Y/N) No							
Coating 5 4 Corrosion By Soil (Y/N) No 5							
Corrosion By Soil (Y/N) No			5	1	Pitting rust on floor		
		No		-7			
	Corrosion By Water (Y/N)	Yes					

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77204 -1 Bridge Culvert

		Brid	lae Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			, Rise (mm): 1220, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	5	
Baffle		X	X	
(Туре:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownsti	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		S		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		N	7	
Heaving (mm)	50			Minor dent SW corner.
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		N	5	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rati	ng	4	5	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction	1	N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar		Х	Х	
Wingwalls		X	Х	_
(Shape:)				
Cutoff Wall		X	X	

Alberta Transportation

		1		am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)		_	1
Bevel End	1	N	7	-
Heaving (mm)	75			
Invert Above/Below Stream Bed	BELOW			-
Above/Below (mm)	100		-	
Scour Protection		N	6	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating	<u> </u>	6	6	
		Brie	dqe Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (r	nm):	, Rise (mm): 1220, Type: MP)
Barrel Last Accessible Date	27-Jul-2012			
Special Features	l			
Special Feature				
(Type :)				
Special Feature				
(Туре:)				
Roof		2	4	200mm sag, 10m from U/S end.
Measured Rise (mm)	1170			(1120x1270 at bulge.) 1260x1170 at CL. Localized bulge in floor. Not typical of extire pipe
Measured At Ring No.				appears to be equipment damage during construction.
Sag (mm)	40			
Percent Sag	3			
Sidewall		N	7	
Measured Span (mm)	1260			at CL
Measured At Ring No.				
Deflection (mm)	40			
Percent Deflection	3			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	
Separation (mm)	60			
Longitudinal Seams		Х	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)				1
Longitudinal Stagger (Y/N)				1
Coating		N	4	Pitting rust on floor
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Corrosion By water (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77204 -1 Bridge Culvert

		Brie		Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1220, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	5	
Baffle		X	Х	
(Туре:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	4	
		 П	ownst	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls			X	
(Shape:)		X	Λ	-
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	75			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Downstream End General Ration	ng	6	6	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability			7	
HWM (m below Top of Culvert)	0.2			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			
Channel General Rating		7	7	

Maintenance Recommendations													
Inspector Recommendations		Year	Inspector Comments		Department Comr	nents		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS													
PLACE ADDITION	IAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
INSTALL CONCR	ETE/STEEL LINING												
INSTALL STRUTS													
INSTALL CONCR	ETE COLLAR/CUTC)FF											
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			22.2/44.4	.4 Sufficiency Rating (Last/N (%)	Now)	46.0/58.1 Est. Repl. Yr 2022		2022	Maint. Re	qd. (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 Progra	m (Y/N)												
Proposed Action													
Previous Inspector's Name Jacob C			Oresile		Previous <i>J</i>	s Assistant's Name							
Next Inspection Date 27-O		27-Oct-2015 P				Previous Inspection Date 28-Jan-2009							
Inspection Cycle (Inspection Cycle (Default) (months) 39												
Comment													