Bridge Culvert Inspection													
Bridge File Nur	nber	09721 -1	Bridge Culver	rt .	J		Form Type		CULE				
Year Built		1955			Lot No	•		4					
Bridge or Town	Name		IMORE				Inspector Name		Jon Davies				
Located Over			ARY TO SERV	/ICEBERI	RY CR	EEK.	Inspector Class		BR CLS B				
			B, WATERCRS				Assistant Name						
Located On		1:12 R1	11.526;1:12 L1	1 11.525			Assistant Class						
Water Body Cl./Year						Inspection Date		23-Feb-2012					
Navigabil. Cl./Y	'ear						Data Entry By Anne Roberts						
Legal Land Loc	ation	NW SEC	12 TWP 24 R	GE 26 W	4M		Data Entry Date			20-Mar-2012			
Longitude, Latitude -113:30:54, 51:02:15						ver Name		Garry Roberts					
Road Authority		Alberta T	ransportation	(AIT)			Review			01-Mar-2012			
Contract Main.	Area	CMA30						Reviewer	Name	Tim Davies			
Clear Roadway	//Skew	30.2 / 45	deg. (RHF)				· ·	Review Da		22-Mar-2012			
AADT/Year		14,030 / :	2010 (A)				Follow		210	ZZ Wai ZOIZ			
Road Classifica	ation	RAD-412	2.4-120				1 Ollow	ор Бу					
Detour Length	(km)	1											
Bridge Culvert	Inform	ation											
Number of Culv	/erts	1											
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	3	8600	1800		BP		54.9				RECTANGLE	
1	D/S	3	3000	2400		РСВ		46.8				RECTANGLE	
Special Feature	es												
Special Feature	es Comi	ment											
					Uti	lities (L	ocated.	at)					
Utility Attachme							I		I				
Telephone	1101111	fence line					Gas						
Power			N, 30m from C	CL			Munici						
Others		optics @ I					Proble	m (Y/N)	No				
Remarks	AGT o		tached to u/s										
	1100.01			Ar	oproac	ch Road	l / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Align	nment				7	7	INTERSECTION 100 m WEST, ACCEL &						
Vertical Alignm					7	7	DECEL LANES.						
9							Hill to I	≣					
Roadway Width	n (m)		30.200										
Embankment					7	7							
Sideslope (:1)		4.0										
(Height of Co		1.8)	1 11 7										
Guardrail (Y/N)		110)	Yes				Not at head wall. Diagonal W/B only on side slope						
Approach Roa	ıd / Eml	oankmen	t General Rat	ing	7	7							
						I I no of the							
Culvert Component				Last	Now	am End Explanation of Condition							
Direction	JIICIIL				N	INOW							
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE		IN		CONCRETE BOX. BP						
Headwall					5	6	Light scaling. Small spalls						
Collar					X	X							

09721 -1 Bridge Culvert

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Wingwalls		4	4	MOVED AWAY 150mm @ NW & IN 200mm @ NE. ANCHORED.					
(Shape : FLARE)				(Concrete apron has heaved 100 mm & is broken up) 24-Aug-201					
				Voided 600mm behind sep @ NW					
Cutoff Wall		N	N	Ice covered					
Bevel End		Х	Х						
Heaving (mm)									
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		5	N	(Rip Rap not complete at NE of ramp) 24 Aug 2010					
(Type : RIP RAP)				PR 5					
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		5	N	(Small scour/erosion at NE apron. Contributing to heave and break up of apron) 24 Aug 2010 PR 5					
Beavers (Y/N)	No								
Upstream End General Rating		5	4						
		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)					
Barrel Last Accessible Date	23-Feb-2012			Con box W Cell					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		7	7						
Measured Rise (mm)	2000								
Measured At Ring No.									
Sag (mm)	0								
Percent Sag	0								
Sidewall		5	5	Deep scaling @ 1/3 length at lower east wall					
Measured Span (mm)	1970								
Measured At Ring No.									
Deflection (mm)	0								
Percent Deflection	0								
Floor		N	N	Ice covered					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		5	5						
Separation (mm) 30									
Longitudinal Seams		Х	Х						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									

		Brio	ige Cu	Ivert Barrel
Culvert Component			T	Explanation of Condition
-	tion Code: MAIN, Spa			, Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Coating		Х	Х	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
_				
			T	Ivert Barrel
Culvert Component	dia on the MAINLO	Last	Now	Explanation of Condition
		n (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	23-Feb-2012			Con box east cell
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2000			
Measured At Ring No.				Estimate
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	6	Light scaling west wall at 1/3 length
Measured Span (mm)	1980			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor	1.0	N	N	Ice covered
Bulge (mm)				100 0070100
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		-		Magazirad at 1/2 langth west wall
	30	5	5	Measured at 1/3 length west wall
Separation (mm) Longitudinal Seams	30	Х	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)				

		Brio	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm): 1800), Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Coating		Х	Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
_				
		_		Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		(mm):	3000, I	
Barrel Last Accessible Date	23-Feb-2012			Pre cast con. box. extension
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	7	
Measured Rise (mm)	2400			Estimate.
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		N	7	
Measured Span (mm)	3000			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			7	Construction joints foam filled.
Separation (mm)		N		
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two	0			1
Cracked Seams Min. Remaining Steel	0			
Between Cracks (mm) Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
_originalial olaggor (1/14)				

	Bridge Culvert Barrel								
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	(mm):	3000, F	Rise (mm): 2400, Type: PCB)					
Coating		Х	Х						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratin	ıg	N	7						
		D	ownstr	ream End					
Culvert Component			Now	Explanation of Condition					
Direction		S	11011						
End Treatment (Concrete, Steel, Others, None)	OTHERS								
Headwall		7	7	Gabions on roof					
Collar		Х	Х						
Wingwalls		7	7	Gabions flared					
(Shape:)									
Cutoff Wall		N	N						
Bevel End		Х	Х	Unable to confirm due to ice					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	800								
Scour Protection		7	N	PR 7					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 100)									
Scour/Erosion		7	N	PR 7					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	7	7	GR carried forward					
		S	tructu	re Usage					
		Last		Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	45 degree bend U/S					
Bank Stability		7	7						
HWM (m below Top of Culvert)	1.4			(D/S end) 08-oct-2008					
Drift (Y/N)	No			No High Water mark visable					
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								

Structure Usage								
	La	.ast	Now	Explanation of Condition				
(Fish Compensation Measure 1 : I	NONE)							
(Fish Compensation Measure 2 : I	NONE)							
Channel General Rating 5 5			5					

		Maintana	··· Docommon	lotiono					
Inapartar Recommendations	Year	Inspector Comments	nce Recommend	Department Com	manta		Target Year	Est. Cost	Cat #
Inspector Recommendations	rear	Inspector Comments		Department Com	ments		rarget rear	ESI. COSI	Cat #
SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO)FF								
REPAIR SEAMS	71 1								
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 55.6/55	.6 Sufficiency Rating (%)	(Last/Now)	61.5/60.5	Est. Repl. Yr	2044	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Е	stimated Total	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous	Assistant's Name					
Next Inspection Date	23-Nov-2013		Previous	Inspection Date	24-Aug-2010				
	21		'	·	, ,				
Comment									