Bridge Culvert Inspection														
Bridge File Number 01482 -1 Bridge Culvert					Bilag	je Curve	Form Type			CULE				
Year Built	IIDEI	1952	Bridge Cuive	11			Lot No	•		2				
Bridge or Town	Name	WALSH						tor Name		Tom Carey				
Located Over	TTALLIC		DER TRIBUTA	ARY TO M	1ACK	ΔΥ		tor Class		BR CLS A				
2004104 0 701			28.2.3, WATE				Assistant Name			BIX OLO /X				
Located On		1:22 R1	37.585;1:22 L	1 37.566				ant Class						
Water Body Cl.	/Year							tion Date		08-Feb-2012				
Navigabil. Cl./Y	'ear						Data Entry By			Lauren Korte				
Legal Land Loc	ation	NW SEC	30 TWP 11 F	RGE 1 W4	M		Data Entry Date			25-Mar-2012				
Longitude, Lati	tude		:14, 49:56:22				Reviewer Name			Garry Roberts	i			
Road Authority		Alberta T	ransportation	ransportation (AIT)				v Date		26-Feb-2012				
Contract Main.	Area	CMA23					Dept. I	Reviewer	Name	Tim Davies				
Clear Roadway	/Skew	26 / -28 (deg. (LHF)					Review Da		29-Mar-2012				
AADT/Year		5,160 / 2	011 (A)					-Up By						
Road Classifica		RFD-412	2.4-130					, ,						
Detour Length		1												
Bridge Culver														
Number of Cul		1		l		I_				I	I	1		
Pipe #	Barrel	5	Span Rise (or Dia.) Type		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	U/S	5	5400	1800	00 MP			51		125X26	2.8	ROUND		
1	MAIN		1560	1520 BP				77		120/120	2.0	RECTANGLE		
•	Special Features			1020						I		1112017111022		
Special Feature		ment												
					Ut	ilities (L	ocated	at)						
Utility Attachme									I					
Telephone		•	uth ROW.				Gas							
Power	North	side, 1-w	ire, 20m FROI	M C.L.			Municipal							
Others	-						Proble	m (Y/N)	No					
Remarks														
				Ap	oproa	Now		ankment nation of		tion				
Horizontal Aligi	nment				9	9								
Vertical Alignm					9	9	600 mm median drain 7 m to the West.							
Roadway Widtl			26.000			<u> </u>								
Noadway Widt	1 (111)		20.000											
Embankment					8	8								
Sideslope (_:1)		4.0											
(Height of Co	ver(m)	0.6)												
Guardrail (Y/N)			Yes											
Approach Des	d / E	ankman	t Conoral Dat	ina	9	9								
Approach Roa	.u / EMI	Jankinen	t General Kat	iiig	9									
						Upstre	am End							
Culvert Comp	onent				Last	Now		nation of						
Direction					S		South	3 - CSP- \	West p	ipe.				
End Treatment Others, None)	(Concre	ete, Steel,	STEEL											
Headwall					Х	X								
Collar					Х	Х								
Wingwalls					Х	Х								
(Shape:)														

			linetre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	Explanation of Condition
Cuton Wan		^		
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
		6	6	
Upstream End General Rating			6	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Spa	an (mm):	1800, I	Rise (mm): 1800, Type: MP, Cell Sequence: 1)
Barrel Last Accessible Date	08-Feb-2012			
Special Features				
Special Feature				West Pipe.
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	
Measured Rise (mm)	1730			
Measured At Ring No.	3			
Sag (mm)	70			
Percent Sag	4			
Sidewall		6	6	
Measured Span (mm)	1825			
Measured At Ring No.	3			
Deflection (mm)	25			
Percent Deflection	2			
Floor		N	N	100 mm DP ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	5	40mm vertical separation at R1.
Separation (mm)	30			
Longitudinal Seams		X	X	
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)				
Coating		5	5	Minor superficial.
Corrosion By Soil (Y/N)	No	5	J	iviiiloi superiiciai.
	Yes			-
Combor DOS/ZEDO/NEC				
Camber POS/ZERO/NEG	ZERO			

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	1800, F	Rise (mm): 1800, Type: MP, Cell Sequence: 1)						
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	6	6							
		Rric	dao Cu	lvert Barrel						
Culvert Component				Explanation of Condition						
	tion Code: U/S. Span			Rise (mm): 1800, Type: MP, Cell Sequence: 2)						
Barrel Last Accessible Date	08-Feb-2012	<u> </u>	1000, 1	Middle Pipe.						
Darrei Last Accessible Date	00-1 60-2012			iviluale i ipe.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		7	7							
Measured Rise (mm)	1745									
Measured At Ring No.	2									
Sag (mm)	55									
Percent Sag	3									
Sidewall		7	7							
Measured Span (mm)	1829									
Measured At Ring No.	2									
Deflection (mm)	29									
Percent Deflection	1									
Floor	I	N	N	100mm ice.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)			1							
Circumferential Seams	I	7	5	@ D/S ring.						
Separation (mm)	80		1							
Longitudinal Seams	I	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		4	4	Moderate corrosion at exposed roof area.						
Corrosion By Soil (Y/N)	Yes			Superficial and some scaling at floor.						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									

		Bric	ige Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	(mm):	1800, F	Rise (mm): 1800, Type: MP, Cell Sequence: 2)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle			Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ıg	7	7	
		Bric	dae Cui	lvert Barrel
Culvert Component		Last		Explanation of Condition
	tion Code: U/S, Span			Rise (mm): 1800, Type: MP, Cell Sequence: 3)
Barrel Last Accessible Date	08-Feb-2012			East pipe.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1755			
Measured At Ring No.	3			
Sag (mm)	45			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	1840			
Measured At Ring No.	3			
Deflection (mm)	40			
Percent Deflection	2			
Floor		N	N	100mm DP ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)			1	
Circumferential Seams		7	5	At D/S.
Separation (mm)	60			
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		5	4	Superficial rust on the lower part of The CSP- some scaling.
Corrosion By Soil (Y/N)	Yes			Corrosion at exposed roof area.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brio	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	(mm):	1800, F	Rise (mm): 1800, Type: MP, Cell Sequence: 3)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle			Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	g	7	7	
		Brid	dge Cul	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1520	, Rise (mm): 1520, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	08-Feb-2012			
Special Features				
Special Feature				West Pipe- concrete box.
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	Narrow longitudinal cracks.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		6	6	Isolated wide vertical cracks.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		6	6	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)			_	
Circumferential Seams	T	6	X	
Separation (mm)				
Longitudinal Seams	T	X	X	
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)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

		Brid		ulvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1520	, Rise (mm): 1520, Type: BP, Cell Sequence: 1)						
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							
		Bric	dae Cul	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
	tion Code: MAIN, Spa			, Rise (mm): 1520, Type: BP, Cell Sequence: 2)						
Barrel Last Accessible Date	08-Feb-2012	,		Middle Pipe- concrete box.						
Special Features										
Special Feature										
(Type:)		l								
Special Feature										
(Type:)										
Roof		7	7							
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)										
Percent Sag										
Sidewall		7	7							
Measured Span (mm)										
Measured At Ring No.										
Deflection (mm)										
Percent Deflection										
Floor		6	5	Medium scaling @ D/S.						
Bulge (mm)	0	0		Interior Scaling & D/S.						
Measured At Ring No.	0									
Abrasion (Y/N)	No									
Circumferential Seams	110	6	Х							
Separation (mm)		0								
Longitudinal Seams		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)										
Coating		X	X							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									

		Brid		ulvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1520	, Rise (mm): 1520, Type: BP, Cell Sequence: 2)						
Ponding (Y/N)	No									
Fish Passage Adequacy			7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		7	7							
		Brio	dae Cul	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
	tion Code: MAIN, Spa	n (mm		, Rise (mm): 1520, Type: BP, Cell Sequence: 3)						
Barrel Last Accessible Date	08-Feb-2012			East pipe- concrete box.						
Special Features		l .								
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		7	7							
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)										
Percent Sag										
Sidewall		7	7							
Measured Span (mm)										
Measured At Ring No.										
Deflection (mm)										
Percent Deflection										
Floor		6	6							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	Х							
Separation (mm)										
Longitudinal Seams		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)										
Coating			Х							
Corrosion By Soil (Y/N)	No	X								
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									
	_									

		Brio	lge Cul	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1520	, Rise (mm): 1520, Type: BP, Cell Sequence: 3)						
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		7	7							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		N		North end. Concrete boxes.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		5	5	Medium scaling & isolated spalling.						
Collar			Х							
Wingwalls		5	5	Medium scaling.						
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End		Х	Х							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection		6	6	Well ingrown.						
(Type:)										
(Avg. Rock Size(mm):)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	5	5							
		S	tructur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		6	5	Flows from over flow of pond to SE- Enters @ 900 angle.						
Bank Stability		7	7	Willows growing throughout channel.						
HWM (m below Top of Culvert)	0.5			(1.1 m HWM SB U/S 0.3 m D/S 940317)						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		6	5							

				Maintenance R	ecommend	dations						
Inspector Recommendations		Year	Inspecto	r Comments		Department Co	mment	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS								<u>-</u>		J J		
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING	i											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	OFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No. (%)	ow)	66.7/66.7	7	Sufficiency Rating (Last/	/Now)	67.6/67.0	Est	. Repl. Yr	2020	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			ı	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Garry I	Roberts			Previous	vious Assistant's Name						
Next Inspection Date 08-No		v-2013			Previous	ous Inspection Date 13-Jul-2010						
Inspection Cycle (Default) (months)	21											
Comment												