					Brida	e Culve	ert Insp	ection					
Bridge File Nur	mber	08616	-1 Bridge Culve	ert	711.0					CULM			
Year Built		1952	<u>_</u>				Lot No	 		4			
Bridge or Town	Name	COND	OR				Inspector Name			Owen Salava			
Located Over TRIBUTA			ARY TO LASTHILL CREEK,				tor Class		BR CLS A				
3.88.12.5, Located On 11:10 C1		2.5, WATERCR	S-ST				ant Name						
Located On		11:10 C	C1 37.946				Assistant Class						
Water Body Cl.	./Year									01-Feb-2012			
Navigabil. Cl./Y	'ear									Marcia Chave	z		
Legal Land Loc	cation	SE SE	C 6 TWP 39 RG		Data Entry By Data Entry Date			06-Mar-2012					
Longitude, Lati	tude	-114:33	20 52:10:00				Reviewer Name			John O'Brien			
Road Authority	•	Alberta	Transportation	Franchortation (AIT)				v Date	<u> </u>	22-Feb-2012			
Contract Main.	Area	CMA18	3						Name	Andrew Smikl	es		
Clear Roadway/Skew 9.9 / 25 d			deg. (RHF)				·	Review Da		09-Mar-2012			
AADT/Year 4,510 / 20			2010 (A)				· ·	-Up By	<u> </u>	00 Mai 2012			
Road Classifica	ation	RAU-2	10-110] Ollow	OP By					
Detour Length (km) 5													
Bridge Culver	t Inform	nation											
Number of Culv	verts		3										
Pipe #	Barrel		Span	pan Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1955	1422		RP		21.9		152X51	2.8	PIPE ARCH	
2	MAIN		-	1200		MP		28.6		68X13	2.8	ROUND	
3	MAIN		-	1200	MP			22.5		68X13	2.8	ROUND	
Special Feature	es												
Utility Attachme	ante				Uti	ilities (L	_ocated	at)					
Telephone		& South	- r/w				Gas						
Power			r/w. 1 wire cros	sees road	@ cul	vert	Munici	nal					
Others			South r/w.	3000 1000	e our	VOI (.		m (Y/N)	No				
Remarks	1 1010	optio iii	0041117111				1 10010	(1 / 1 1 /	1110				
rtomanto				Ar	oproac	ch Road	d / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Aligi	nment				8	8	Farm 6	Farm entrance 20m East.					
Vertical Alignm					8	8	1955 8	k 1200mm	n pipe t	to the East are stream 0 degre	at different ske	ews, other	
Roadway Widtl	h (m)		9.900				120011	IIII 30III V	vest or	stream o degre	, c .		
Embankment					5	6							
Sideslope (:1)		3.0										
(Height of Co		: 1.3)											
Guardrail (Y/N)			No										
Approach Roa	ad / Emi	bankme	ent General Rat	ting	8	8							
						Upstre	am End						
Culvert Comp	onent				Last			nation of	Condi	tion			
(Pipe # : 1, Sp		e: Prima	ary Span)										
Direction					S		Middle	pipe.					
End Treatment Others, None)	(Concr	ete, Stee	el, STEEL										
Headwall					Х	Х							
Collar					Х	Х							

08616 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	Rows of rebar placed horizontally across opening. Drift accumulation
Heaving (mm)	0			on grate.
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Snow covered.
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	
D ()/(A))	NI-			
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
				Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca		n (mm): 1955	, Rise (mm): 1422, Type: RP)
Barrel Last Accessible Date	01-Feb-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	5	Not meausred due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	90			(5.9%. 08/June/2000)
Percent Sag				(0.576. 00/04/16/2000)
Sidewall		N	5	Not measured; max. span below ice level.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	70			(3.2%. 08/June/2000)
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	5	
Separation (mm)	0	14		
Longitudinal Seams	U	N	5	
Total No. of Cracked Rings	0	IN	J	
Total No. of Rings with Two				
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			

		Brio	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			·
Coating	•	N	5	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
				Drift caught on inlet bars.
Barrel General Rating		N	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	Span)			
Direction	-	N		Centre pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)			1	
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	N	(Minimal rocks. 31Mar2010) - Snow covered.
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	LaSi	INOW	Explanation of Condition
Direction	ary Oparr)	s		East pine
End Treatment (Concrete, Steel,	STEEL	3		East pipe.
Others, None) Headwall		X	Х	
Collar		X	X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		4	4	Mower damage to crown of bevel.
Heaving (mm)	350			
Invert Above/Below Stream Bed				
Above/Below (mm)	100			
Scour Protection		5	N	Snow covered.
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	
	,			
Beavers (Y/N)	No			
Upstream End General Rating	'	4	4	
Culvert Component			Now	Ivert Barrel
(Pipe # : 2, Secondary Span, Lo	oction Code: MAIN 6			Explanation of Condition
Barrel Last Accessible Date	31-Mar-2010	Span (i	11111).	, Rise (mm): 1200, Type: MP)
Barrer Last Accessible Date	31-Mai-2010			0.5m to ice; viewed from ends, shape OK>
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	N	
Measured Rise (mm)	1175			
Measured At Ring No.	2			
Sag (mm)	25			
Percent Sag	2			
Sidewall		6	N	
Measured Span (mm)	1250			
Measured At Ring No.	2			
Deflection (mm)	50			
Percent Deflection	4			
Floor		6	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	N	At R2.
Separation (mm)	150			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)	NI-			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			

08616 -1 Bridge Culvert

		Brio	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	pan (n	nm):	, Rise (mm): 1200, Type: MP)
Coating		5	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		6	N	GR was 6 from 31Mar2010.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	arv Span)			1
Direction	,	N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	Minor mower dmage to crown.
Heaving (mm)	150			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Snow covered.
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	5	5	
			Upstre	am End
Culvert Component		Last		
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		s		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	X	

			Unetro	oom End
Culvert Component				Explanation of Condition
	long Cnon)	Last	INOW	Explanation of Condition
(Pipe # : 3, Span Type: Second	iary Spari)		V	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		4	4	Mower damage to top, sides.
Heaving (mm)	0	-		- monor samage to top, stass.
Invert Above/Below Stream Bed				
Above/Below (mm)	200			
Scour Protection	200	5	N	Snow covered.
(Type : NATURAL)			- '`	Show sovered.
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	
SCOUI/E103IOI1		3	11	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Bri	dae Cu	Ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAII			, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	01-Feb-2012	.,		
Dairor East / toossolbio Dato	011002012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	5	
Measured Rise (mm)	1130			
Measured At Ring No.	2			
Sag (mm)	70			5.8%
Percent Sag	6			0.070
Sidewall		5	5	
Measured Span (mm)	1260			1
Measured At Ring No.	2			
Deflection (mm)	60			
Percent Deflection	5			
Floor	-	5	5	
Bulge (mm)	0	J		-
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	140	5	5	
Separation (mm)	30	3	ບ	
	30	V	V	
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)				

08616 -1 Bridge Culvert

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	3pan (r	nm):	, Rise (mm): 1200, Type: MP)
Coating		5	5	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	lary Span)			
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Snow covered.
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		ç	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)	0.2			
Drift (Y/N)	Yes			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 : NONE)									
Channel General Rating			6						

		Maintena	nce Recommend	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	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 55.6/5	Sufficiency Rating (%)	(Last/Now)	50.2/50.1	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previous	Assistant's Name					
Next Inspection Date	01-Nov-2013		Previous	Inspection Date	31-Mar-2010				
Inspection Cycle (Default) (months)	21								
Comment									