Bridge Culvert Inspection													
Bridge File Number 75620 -1			-1 Bridge Culvert				Form Type			CULM			
Year Built 1964		1964					Lot No.			4			
Bridge or Town	Name	HOBBE	3EMA					or Name		Owen Salava			
Located Over		TRIBU 5.47.4.	BUTARY TO MASKWA CREEK, 7.4.1.3, WATERCRS-ST					or Class		BR CLS A			
Located On 2:28 R1			1 23.153;2:28 L1 23.154					nt Class					
Water Body Cl.	/Year	-					ion Data		21-Eeb-2013				
Navigabil. CI./Y	ear							ntry By		Marcia Chavez	7		
Legal Land Loc	ation	NE SE	C 13 TWP 45 RGE 26 W4M					ntry Date		11 Mar 2012			
Longitude, Latitude -1		-113:38	:37, 52:53:01				Reviewer Name						
Road Authority Alb		Alberta	Transportation	(AIT)			Review Date			27-Feb-2013			
Contract Main.	Area	CMA17					Dent Reviewer Name			Chris Black			
Clear Roadway	/Skew	23 / -10	deg. (LHF)				Dept. Reviewer Name			1/1-Mar-2013			
AADT/Year		24,530	/ 2011 (A)				Follow-						
Road Classifica	ation	RAD-4	12.4-120					ор Бу					
Detour Length	(km)	1											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2314	2552		SPE		74		152X51	2.8,2.8,2.8	ELLIPSE	
2	MAIN		2314	2552		SPE	74		152X51	2.8,2.8,2.8	ELLIPSE		
Special Feature	es												
Special Feature	es Comr	ment											
					1145	1:1: /l		-1)					
Litility Attachma	nto				Uti	ittes (L	ocated	at)					
	Voo	no mork	or				Con						
Power	auer 2 wire 40m East of ell						Municir						
Others	Fibre	ontics @			Problem (Y/N) Yes								
Remarks	(Telus	s cable e	exposed along to	be of			1100101		100				
	Edote	lacelep		A	oproac	h Road	l / Emba	ankment					
					Last	Now	Explan	ation of	Condi	tion			
Horizontal Aligr	nment				8	8							
Vertical Alignm	ent				8	8							
Roadway Width	n (m)		23.000										
Embankment					7	7							
Sideslope (<u>.</u> :1)		3.0										
(Height of Co	ver(m) :	3)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Emb	bankme	nt General Rat	ing	8	8							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion			
(Pipe # : 1, Sp	an Type	e: Prima	ry Span)										
Direction					W		North p	ipe.					
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall					Х	Х							
Collar				Х	Х								

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			1
Wingwalls		X	X	_
(Shape :)				
Cutoff Wall		X	X	
Bevel End			5	(Bevel has heaved 75mm above bed
Heaving (mm)	200			leaving gap. 03/05/21).
Invert Above/Below Stream Bed	ABOVE			-
Above/Below (mm)	75			
Scour Protection		5	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	(Minor scour under bevel - photo. 03/05/21) - Not visible due to snow.
Beavers (Y/N)	No			
Upstream End General Rating	1	4	4	G.R. carried forward from unknown date.
		Bri	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # 1, Primary Span, Loca	tion Code: MAIN, Sn	an (mm): 2314	Rise (mm): 2552, Type: SPF)
Barrel Last Accessible Date	21-Feb-2013		.,	North nine
	211052010			
Special Features				
Special Feature				_
(Туре :)				
Special Feature				
(Туре :)			_	
Roof		7	7	Unable to measure due to ice.
Measured Rise (mm)	2596			_
Measured At Ring No.	15			-
Sag (mm)	44			(1.7% upwards. 12Jul2011).
Percent Sag	2			
Sidewall		7	7	Span @ R4 = 2297, 17mm. R22 = 2317, 3mm. R27 = 2310, 4mm.
Measured Span (mm)	2271			
Measured At Ring No.	15			
Deflection (mm)	43			
Percent Deflection	2			1.9% inwards.
Floor		6	N	Ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		5	5	1 bolt missing North side ring #5.
Total No. of Cracked Rings	0			
Total No. of Rings with Two				1
Cracked Seams				-
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			1N
Longitudinal Stagger (Y/N)	Yes			

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Bridge Inspection & Maintenance System (Web 2005)

		Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm): 2314	, Rise (mm): 2552, Type: SPE)						
Coating		5	5	Minor superficial rusting.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG ZERO										
Ponding (Y/N)	No									
Fish Passage Adequacy		6	6							
Baffle		X	Х							
(Туре :)										
Waterway Adequacy	I	7	7							
Icing (Y/N)	No			-						
Silting (Y/N)	No			-						
Drift (Y/N)	Yes									
Barrel General Rating		5	5							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	v Span)									
Direction		E		North pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		5	5							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	300									
Scour Protection		5	N	Snow covered.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		5	N	Snow covered.						
Beavers (Y/N)	Yes									
Downstream End General Ratin	ng	5	5							
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		W		South pipe.						
End Treatment (Concrete, Steel, STEEL Others, None)										
Headwall		X	X							
Collar		X	X							

			Upstre	am End				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)		_					
Wingwalls		X	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		5	5	Bevel projects from fill 0.2m (& has heaved 75mm above bed leaving				
Heaving (mm)	150			gap. 12Jul2011).				
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	75							
Scour Protection		5	N	Bushes growing at the entrance.				
(Type : RIP RAP)				Snow covered.				
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		5	N	Snow covered.				
Beavers (Y/N)	No							
Upstream End General Rating		5	5					
		Brie	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 23	314, Rise (mm): 2552, Type: SPE)				
Barrel Last Accessible Date	21-Feb-2013			South pipe.				
Special Features			_					
Special Feature								
(Type :)								
Special Feature								
(Type :)								
Roof		6	6	Unable to measure due to ice.				
Measured Rise (mm)	2690			Minor damage to D/S end of barrel.				
Measured At Ring No.	11							
Sag (mm)	138			5.4% upward.				
Percent Sag	5							
Sidewall		7	7	Span @ R7 = 2290, 24mm. R21 = 2281, 33mm. R25 = 2301, 13mm.				
Measured Span (mm)	2261							
Measured At Ring No.	14							
Deflection (mm)	51							
Percent Deflection	2			2.2% inward.				
Floor		5	N	Ice				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams			7					
Separation (mm) 0								
		6	6					
Total No. of Cracked Rings 0								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)				1N				
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							

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Bridge Inspection & Maintenance System (Web 2005)

75620 -1 Bridge Culvert

Output Operations		Brid	dge Cu	Ivert Barrel			
Culvert Component	estion Coder MAIN		NOW	Explanation of Condition			
	cation Code: MAIN, 3	Span (r	<u>nm): 2.</u>	314, Rise (mm): 2552, Type: SPE)			
		5	5	Minor superficial rusting.			
Corrosion By Soil (Y/N)	NO			-			
Corrosion By Water (Y/N)	Yes						
Camber POS/ZERO/NEG	ZERO						
Ponding (Y/N) Yes							
Fish Passage Adequacy			7				
Baffle			Х				
(Type:)							
Waterway Adequacy		7	7				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		6	6				
			ownst	ream End			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 2. Span Type: Second	arv Span)	Laor					
Direction		F		South nine			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall	<u> </u>	X	X				
Collar		X	Х				
Wingwalls		X	X				
(Shape:)							
Cutoff Wall		Х	X				
Bevel End		5	5				
Heaving (mm)	0	5	5				
Invert Above/Below Stream Bed							
Above/Below (mm)	300			-			
Scour Protection	000	5	N	Snow covered			
		0	I V				
$(Ava Rock Size(mm) \cdot 300)$							
Scour/Erosion		5	N	Snow covered			
	1	5					
Beavers (Y/N)	No						
Downstream End General Ratin	ng	5	5				
		S	Structu	re Usage			
		Last	Now	Explanation of Condition			
Channel (U/S and D/S)			_				
Alignment			6	Outlet empties into ditch area before entering service road inlets causing swirling currents.			
Bank Stability		6	6				
HWM (m below Top of Culvert)				No HWM visible.			
Drift (Y/N)	No						

Bridge Inspection & Maintenance System (Web 2005)

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading				Stable.					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Maintenance Recommendations													
Inspector Recommendations		Year	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 (%)	ow)	55.6/55.	6 Sufficiency Rating (Last/No. (%)	ow) :	58.5/58.4	.5/58.4 Est. Repl. Yr 2033		Maint. Reqd. (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 Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Owen	Salava	1	Previous Assistant's Name									
Next Inspection Date 21		21-Nov-2014			Previous Inspection Date 12-Jul-2011								
Inspection Cycle (Default) (months)	21												
Comment													