Bridge Culvert Inspection													
Bridge File Nun	nber	72072 -	1 Bridge Culver	rt			Form T			CULM			
Year Built/Line		1960/19					Lot No			4			
Bridge or Town	Name	DUCHE	SS				Inspec	tor Name	,	Jon Davies			
Located Over			RIGATION C, V	WATERC	RS-IC		Inspector Class		BR CLS B				
Located On		36:08 C	1 12.452				Assistant Name						
Water Body Cl.	/Year						Assistant Class						
Navigabil. Cl./Y								Inspection Date		14-Jan-2012			
Legal Land Loc		NE SEC	C 36 TWP 20 R	GE 15 W	4M		Data Entry By		Alyssa Boynton				
Longitude, Latit		-111:56	:58, 50:44:46							22-Feb-2012			
Road Authority				ansportation (AIT)				Reviewer Name		Garry Roberts			
Contract Main. Area CMA23							Review Date		20-Jan-2012				
Clear Roadway/Skew 11 /								Reviewer	Name	Tim Davies			
AADT/Year 1,450 / 20			2010 (A)					Review Da		24-Feb-2012			
Road Classifica	ation	RAU-21	1.8-110				Follow	-Uр Ву					
Detour Length	(km)	3											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
2	MAIN F LINER	ULL	-	2400	MP			36		125X26	2.8	ROUND	
3	MAIN F LINER	ULL	-	2400	2400 MP			36		125X26	2.8	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
Little Attackers	4-				Uti	ilities (L	ocated	at)					
Utility Attachme		,					0		400	0			
Telephone	W RW						Gas		100m	South			
Power Others		R/W-3W 30m W optic cable at east row.					Municip	m (Y/N)	No				
Remarks	1 IDEI	optic car	Die at east low.				T TODICI	11 (1/14)	INO				
Remarks				Δι	nnroad	ch Road	l / Emb	ankment					
				A	Last	Now		ation of		tion			
Horizontal Aligr	nment				7	7	Intersection SH 550 700 m south.						
Vertical Alignm					6	6	Hill to the north. No passing NB.						
Roadway Width			10.500										
Embankment					7	7							
Sideslope (:1)		3.0				5:1 at road side slope.						
(Height of Co		1.9)					5:1 at r	oad side	siope.				
Guardrail (Y/N)			No										
Approach Roa	d / Eml	oankmei	nt General Rat	ing	6	6							
						Unstre	am End						
Culvert Compo	Culvert Component					Now		ation of	Condi	tion			
(Pipe # : 2, Sp		e: Prima	ry Span)										
Direction							West e	nd - north	h pipe				
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL										
Headwall					Х	Х							
Collar					Х	Х							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	y Span)			
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
(Pipe # : 2, Span Type: Primary Span) Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) 0 Invert Above/Below Stream Bed BELOW Above/Below (mm) 600 Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 200) Scour/Erosion Beavers (Y/N) No Upstream End General Rating Culvert Component		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dao Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
-	tion Code: MAIN, Spa			, Rise (mm): 2400, Type: MP)
			,	North Pipe
Special Features				
(Pipe # : 2, Primary Span, Location Code: MAIN, Span Barrel Last Accessible Date 14-Jan-2012 Special Features Special Feature (Type :) Special Feature (Type :)				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Estimate
Measured Rise (mm)	2900			
Measured At Ring No.				
Sag (mm)	0			
	0			
Sidewall		5	5	Local 50mm bulges
Measured Span (mm)	2420			
	2			
Deflection (mm)	20			
Percent Deflection	1			
Floor		N	N	Water and ice covered.
Bulge (mm)				
Measured At Ring No.				
· ·				
		7	7	
Separation (mm)	20			
		Х	X	
				1
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brid	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2400, Type: MP)
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	Span)			
Direction				East end of north pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			am End	
Culvert Component		Last		Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction				West end south pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	lary Span)			
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Duit	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN 9			, Rise (mm): 2400, Type: MP)
		Jpan (i		South pipe
	14-3811-2012			South pipe
		1		
Barrel Last Accessible Date 14-Jan-2012 Special Features Special Feature (Type:) Special Feature				
Special Features Special Feature (Type:)		1		
		1		
Roof	1	5	5	- The roof and sidewall distorted during casting of the liner - Rating raised to "5" because the pipe is encased in concrete
Measured Rise (mm)	2020			- Nating raised to 3 because the pipe is encased in concrete
Measured At Ring No.	2			
Sag (mm)	380			
Percent Sag	15			
Sidewall		5	5	
Measured Span (mm)	2580			
Measured At Ring No.	2			
Deflection (mm)	180			
Percent Deflection	7			
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	6	Foamed sealed
Separation (mm)	50			
Longitudinal Seams		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)				
Longitudinal Stagger (1/11)				

		Brio	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	3pan (n	nm):	, Rise (mm): 2400, Type: MP)
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	lary Span)			
Direction				East end South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		S	tructu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	Control gate/drop structure 0.5 km u/s
Bank Stability		8	8	
HWM (m below Top of Culvert)	1.1			No HWM visible.
Drift (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		9	9					

72072 -1 Bridge Culvert

		Maintenance Re	commendations				
Inspector Recommendations	Year	Inspector Comments	Department Co	Target Ye	ear 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 (%)	ow) 55.6/55	.6 Sufficiency Rating (Last/N	low) 60.7/70.1	Est. Repl. Yr	2036 Maint	Reqd. (Y/N)	No
Special Comments for Next Inspection Previous inspection	at this site had p ns show the sam	reviously been discussed with A.T to ra e stable 380mm roof sag.	Department Comments				
Maintenance Reviewed By			Date		Estimated ⁻	otal 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Tom Carey		Previous Assistant's Name				
Next Inspection Date	14-Oct-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21		, , , , , , , , , , , , , , , , , , , ,	22-Jun-2010			
Comment							