					Bridg	e Culve	ert Insp	ection						
Bridge File Num	ber	02452 -1 Bridge Culvert					Form Type			CUL1				
Year Built		1954					Lot No			4				
Bridge or Town	Name	PONO	KA				Inspector Name			Owen Salava				
Located Over			RDER TRIBUTA , 5.51.2, WATE			E		tor Class		BR CLS A				
Located On			, 5.51.2, WATE C1 27.505	1010-01				Assistant Name						
Water Body Cl./	Voor	33.00 (51 27.505				Assistant Class							
Navigabil. Cl./Ye								tion Date		28-Nov-2012				
Legal Land Loca		SE SE	C 3 TWP 43 RG	E 23 \M/4	N/I			ntry By		Marcia Chave	Z			
Longitude, Latitu			5:02, 52:40:02	IL 23 VV4	IVI			intry Date		06-Dec-2012				
Road Authority	Jue		Transportation	(ΔIT)				ver Name		John O'Brien				
Contract Main.	Δrea	CMA17	•	(A11)			Reviev			04-Dec-2012				
Clear Roadway/			5 deg. (LHF)							Andrew Smikle	es			
AADT/Year	OKCW		011 (A)					Review Da	ate	10-Dec-2012				
Road Classificat	tion	RAU-20	` ,			Follow-Up By								
Detour Length (-	6	00 110											
Bridge Culvert										<u> </u>				
Number of Culve			1											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1724	1901		SPE		54.6		152X51	3.0	ELLIPSE		
Special Feature	s			'				'			<u>'</u>			
Special Features Comment														
Utilities (Located at)														
Utility Attachments														
Telephone	South	r/w.					Gas							
Power	3 wire	on Nor	th r/w bdry.				Munici	pal						
Others							Proble	m (Y/N)	No					
Remarks														
				Α	pproa	ch Road		ankment						
					Last	Now		nation of						
Horizontal Align					8	8	Grade	starts 100	Om We	st with limited s	ight distance.	No passing WB.		
Vertical Alignme			0.400	6	6									
Roadway Width	(m)		9.400											
Embankment					6	6								
Sideslope (:	:1)		3.0											
(Height of Cov	/er(m) :	3.8)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	ankme	ent General Rat	ing	6	6								
						Upstre	am Enc							
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
Direction					S		Barrel	rotated 15	5 degre	ee counter clock	wise.			
End Treatment (Others, None)	(Concre	ete, Stee	el, STEEL											
Headwall			'		Х	X								
Collar					Х	Х								
Wingwalls					Х	Х								
(Shape:)														
Cutoff Wall					Х	X								

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	7	U/S appears to have been extended by one section.					
Heaving (mm)	150			, i					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection	1	7	N	Snow covered.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		7	N	Snow covered.					
				Onon services.					
Beavers (Y/N)	No								
Upstream End General Rating		7	7						
		Dei	dae Cu	Israet Parral					
Culvert Component				Ivert Barrel Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN								
Barrel Last Accessible Date	28-Nov-2012	Spair (iiii	·/· · · · · ·						
Daniel Last Accessible Date	20-1404-2012								
Special Features									
Special Feature									
(Type :)			_						
Special Feature									
(Type :)									
Roof		N	6	Unable to measure due to ice.					
Measured Rise (mm)	1880								
Measured At Ring No.	10								
Sag (mm)	21			(1.1%. 28Aug2009).					
Percent Sag	1								
Sidewall		N	6						
Measured Span (mm)	1720								
Measured At Ring No.	10								
Deflection (mm)	4								
Percent Deflection	0			-					
Floor	0	N	N	Ice					
Bulge (mm)	0	IN	114						
Measured At Ring No.									
	No								
Abrasion (Y/N)	INU	N.I.		All circumferential acome in original pine are missing 4 ton but					
Circumferential Seams	0	N	5	All circumferential seams in original pipe are missing 1 top bolt.					
Separation (mm)	0		T -						
Longitudinal Seams		N	5	Arch of plates appears incorrect creating gaps at seams up to 3mm Missing 1 bolt at R2, E side at 4:00.					
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		N	5	Superficial rust below waterline.					
Corrosion By Soil (Y/N)	Yes			Alkaline stains through seams. (Perforations R4 at low waterline due to interrupting spring. 28Aug2009).					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO			,					
Ponding (Y/N)	No								

02452 -1 Bridge Culvert

		Brio	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1724	
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		N	5	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	(Bevel is unsupported for 1.5m. 28Aug2009) - Unable to verify due to
Heaving (mm)	0			snow in channel.
Invert Above/Below Stream Bed ABOVE				
Above/Below (mm)	950			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Ratin	ng	5	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			1	
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
	NONE)			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 350) Scour/Erosion Beavers (Y/N) No Downstream End General Rating Channel (U/S and D/S) Alignment Bank Stability HWM (m below Top of Culvert) Drift (Y/N) Channel Bottom Degrading/Aggrading DEGRADING		6	6	

			Mainter	nance Recomme	ndations							
Inspector Recommendations	Year	Inspecto	r Comments		Department Com	nments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
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/N (%)	ow) 55.6/55	5.6	Sufficiency Ratin	g (Last/Now)	60.4/60.4	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	stimated Tota	I 0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Owen Salava			Previou	s Assistant's Name	Assistant's Name						
Next Inspection Date	28-Aug-2014			Previou	s Inspection Date	13-Apr-2011						
Inspection Cycle (Default) (months)	21											
Comment												