					Brida	e Culve	ert Inspe	ction						
Bridge File Nu	ımber	74106 -	1 Bridge Culve	ert	Dirag	ridge Culvert Inspection Form Type			CULM					
Year Built		1994					Lot No.		3					
Bridge or Tow	n Name	CARSE	LAND					or Name	Tom Carey					
Located Over			RRIGATION C	. WATERO	CRS-IC		Inspector Class		BR CLS A					
Located On			1 13.777				Assistant Name							
Water Body C	L/Year						Assistant Class							
Navigabil. Cl./							Inspection Date		21-Feb-2013					
Legal Land Lo		SW SE	C 22 TWP 22	WP 22 RGE 26 W4M			Data En		Anne Roberts					
Longitude, Lat			:12, 50:53:05					itry Date	19-Mar-2013					
Road Authority			Transportation	(AIT)				er Name	Garry Roberts					
Contract Main		CMA30		. (/)			Review Date		03-Mar-2013					
			deg. (LHF)				-	eviewer Name						
AADT/Year 2,260 / 20							· ·	eview Date	25-Mar-2013					
Road Classific	ration	RAU-21	· ,				Follow-l		20 1/101 2010					
Detour Length		3	1.0 110				ollow (эр Бу						
Bridge Culve														
Number of Cu			2											
Pipe #	Barrel		Span	Rise (or	Dia.) Type		Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN		5903	3188		RPB		29.3	152X51	4.0,4.0,4.0	ELLIPSE			
2	MAIN		5903	3188		RPB		29.3	152X51	4.0,4.0,4.0	ELLIPSE			
Special Featur				10.00					102/101	110, 110, 110	12211 02			
Special Featur		ment												
Opoolal 1 oatal	100 001111	none												
					Uti	ilities (L	ocated a	at)						
Utility Attachm	ents													
Telephone	West	and East	t row				Gas							
Power	3w 20	m East a	and NW.			Municip	al							
Others							Problem	n (Y/N) No						
Remarks														
				Α			d / Emba							
					Last	Now	Explana	ation of Condi	tion					
Horizontal Alig					9	9	2:1 SLC	PE AT CULVE	ERT ENDS					
Vertical Alignn					9	9								
Roadway Wid	th (m)		8.300			_								
Embankment					3	3	(Erosion	and loss of fil	behind headw	all of north pipe	@ D/S with			
Sideslope (_	:1)		6.0				large void approx- 1mx0.3mx1.2m) Ice and snow covered.							
(Height of Co	over(m):	1.3)												
Guardrail (Y/N	l)		Yes	Yes			Double laywer w-beam Bolt missing at post at North east at end - bolt pulled through. Turndown end torn and pointed upward at South East.							
Approach Ro	ad / Emb	oankmer	nt General Ra	ting	9	9	Turridov	Wil Gild tolli dil	a pointed apwe	ind at Oodin Eac	,			
						Upstre	am End							
Culvert Comp	onent							ation of Condi	tion					
(Pipe # : 1, S		e: Prima	ry Span)			<u>'</u>								
Direction	712				W		West er	nd, south pipe.						
End Treatmen Others, None)	t (Concre	ete, Stee	I, CONCRET	E	VV			.a, cca p.pc.						
Headwall					8	8	Narrow cracks							
Collar					8	8								
Wingwalls					Х	X								
							I							

Outroot Common on the		1		am End
Culvert Component	· Cuan)	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm) 0				
Invert Above/Below Stream Bed BELOW				
Above/Below (mm)	400			
Scour Protection		8 N		PR 8 Completely snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	N	PR 8
	T			
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Bri	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			
Barrel Last Accessible Date	21-Feb-2013			South pipe.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	
Measured Rise (mm)				Estimated
Measured At Ring No.				
Sag (mm)				
	30			
Percent Sag	1			
Percent Sag Sidewall		8	8	Inward
		8	8	Inward
Sidewall	1	8	8	Inward
Sidewall Measured Span (mm)	5830	8	8	Inward
Sidewall Measured Span (mm) Measured At Ring No.	5830 3	8	8	Inward
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)	5830 3 73	8 N	8 N	Inward 600 mm deep ice
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection	5830 3 73			
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor	5830 3 73			
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	5830 3 73			
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	5830 3 73			
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams	5830 3 73	N	N	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm)	5830 3 73 1	N	N	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams	5830 3 73 1	N 8	N 8	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two	5830 3 73 1	N 8	N 8	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams	1 5830 3 73 1	N 8	N 8	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm)	5830 3 73 1	N 8	N 8	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)	5830 3 73 1	N 8	N 8	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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)	5830 3 73 1	N 8 8	N 8 8	600 mm deep ice
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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	1 5830 3 73 1	N 8	N 8	
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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)	5830 3 73 1	N 8 8	N 8 8	600 mm deep ice

		Brio	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 5903	, Rise (mm): 3188, Type: RPB)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)			1	
Waterway Adequacy	T	9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
				eam End
Culvert Component	- 0>	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1_		
End Treatment (Concrete, Steel,	CONCRETE	E		East end, south pipe.
Others, None) Headwall		8	8	Narrow cracks
Collar		8	8	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	N	Completely snow covered. PR 8
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	N	PR 8
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction				West end, north pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	Narrow cracks
Collar		8	8	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		N	N	

74106 -1 Bridge Culvert

Culvert Component	Upstream End										
Bewell End	Culvert Component		Last	Now	Explanation of Condition						
Heaving (mm)	(Pipe # : 2, Span Type: Second	lary Span)									
Invert Above/Below (mm)	Bevel End		8	8							
Above/Below (mm)	Heaving (mm)	0									
Scour Protection S	Invert Above/Below Stream Bed	BELOW									
(Type : RIP RAP) ((Avg. Rock Size(mm) : 200) Socurification Beavers (Y/N) No Upstream End General Rating Bridgo Culvert Barrel Culvert Component Culvert Component	Above/Below (mm)	400		_							
Avg. Rock Size(mm) : 200) ScourFresion 8	Scour Protection		8	N	PR 8 Completely snow covered.						
Scour/Erosion 8	(Type : RIP RAP)										
Beavers (Y/N)	(Avg. Rock Size(mm) : 200)			_							
Secondary Span, Location Code: MAIN, Span (mm): 5903, Rise (mm): 3188, Type: RPB)	Scour/Erosion		8	N							
Bridge Culvert Component Last Now Explanation of Condition	Beavers (Y/N)	No									
Culvert Component Last Now Explanation of Condition (Pipe # 2.2, Secondary Span, Location Code: MAIN, Span (mm): 5903, Rise (mm): 3188, Type: RPB) Barrel Last Accessible Date 21-Feb-2013 North pipe. Special Features Special Feature (Type:) (Type:) Special Feature (Type:) Roof 8 8 Measured Rise (mm) Measured At Ring No. Sag (mm) 50 Sag (mm) 50 Fercent Sag Sidewall 8 8 Inward Measured Span (mm) 5860 Festimated Measured At Ring No. 3 Inward Measured At Ring No. 3 Inward Percent Deflection 1 Festimated Floor N N N Bulge (mm) N N Measured At Ring No. Abrasino (YN) Circumferential Seams 8 8 Separation (mm) 0 Longitudinal Seams 0 <	Upstream End General Rating		8	8							
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 5903, Rise (mm): 3188, Type: RPB) Barrel Last Accessible Date 21-Feb-2013 North pipe. Special Features Special Feature (Type :) Special Feature (Type :) Roof 8 8 Measured Rise (mm) Estimated Measured Al Ring No. 50 Sag (mm) 50 Percent Sag 1 Sidewall 8 8 Measured Span (mm) 5860 Measured Al Ring No. 3 Invariant Properties of the properties			Brid	dge Cu	lvert Barrel						
Special Feature Special Fe	Culvert Component		Last	Now	Explanation of Condition						
Special Feature (Type :) Roof	(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm): 59	903, Rise (mm): 3188, Type: RPB)						
Special Feature Common Coating Coating	Barrel Last Accessible Date	21-Feb-2013			North pipe.						
Special Feature Common Coating Coating	Special Features										
Type : Special Feature											
Special Feature Common Coating Learning Le											
Type : Roof											
Roof	·										
Measured At Ring No. Sag (mm) 50			8	8							
Measured At Ring No. Sag (mm) 50	Measured Rise (mm)				Estimated						
Sag (mm) 50					- Estimated						
Percent Sag		50									
Measured Span (mm) 5860 Measured At Ring No. 3 Deflection (mm) 43 Percent Deflection 1 Floor N Bulge (mm) N Measured At Ring No. Abrasion (Y/N) Circumferential Seams 8 Separation (mm) 0 Longitudinal Seams 8 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) Yes Longitudinal Stagger (Y/N) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) 5 5 Alkali @ seams		1									
Measured At Ring No. 3 Deflection (mm) 43 Percent Deflection 1 Floor N N Bulge (mm) N Measured At Ring No. Abrasion (Y/N) Circumferential Seams 8 8 Separation (mm) 0 Longitudinal Seams 8 8 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) Yes Longitudinal Stagger (Y/N) No Coating 5 5 Corrosion By Soil (Y/N) Alkali @ seams	Sidewall		8	8	Inward						
Measured At Ring No. 3 Deflection (mm) 43 Percent Deflection 1 Floor N N Bulge (mm) N Measured At Ring No. Abrasion (Y/N) Circumferential Seams 8 8 Separation (mm) 0 Longitudinal Seams 8 8 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) Yes Longitudinal Stagger (Y/N) No Coating 5 5 Corrosion By Soil (Y/N) Alkali @ seams	Measured Span (mm)	5860									
Deflection (mm) 43 Percent Deflection 1 Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 8 8 Separation (mm) 0 Longitudinal Seams 8 8 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) No Coating 5 5 5 Alkali @ seams		3									
Floor		43									
Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 8 8 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) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Percent Deflection	1									
Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 8 8 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) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Floor		N	N							
Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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 Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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 Corrosion By Soil (Y/N) Corrosion By Water (Y/N) Seams 8 8 8 8 Alkali @ seams											
Separation (mm) Longitudinal Seams 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 Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Longitudinal Seams 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 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Circumferential Seams		8	8							
Total No. of Cracked Rings 0 Total No. of Rings with Two 0 Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Separation (mm)	0									
Total No. of Cracked Rings 0 Total No. of Rings with Two 0 Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Longitudinal Seams		8	8							
Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating Corrosion By Soil (Y/N) Corrosion By Water (Y/N)		0									
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Total No. of Rings with Two										
Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Min. Remaining Steel	0									
Longitudinal Stagger (Y/N) No Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	` '	Yes									
Coating 5 5 Alkali @ seams Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Corrosion By Soil (Y/N) Corrosion By Water (Y/N)			5	5	Alkali @ seams						
Corrosion By Water (Y/N)					1						
					1						
		ZERO									

		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm): 59	903, Rise (mm): 3188, Type: RPB)
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
Culvert Component				eam End Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Snan)	Lasi	INOW	Explanation of Condition
Direction	lary Spari)	Е		Fact and north size
	CONCRETE	E		East end, north pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	Narrow cracks
Collar		8	8	
Wingwalls		Х	Х	
(Shape:)		1	1	
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	N	PR 8 Completely snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
		S	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment			8	
Bank Stability			N	Snow covered
HWM (m below Top of Culvert)	2.0			Snow covered
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

				N									
Inanactor Decemmendations		Year	Inonacto	Maintenance Reco	ommena		n no o n f	to.		Target Y	'oor	Est. Cost	Cat #
Inspector Recommendations		real	inspecio	or Comments		Department Com	imeni	ıs		Target	ear	ESI. COSI	Cal #
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LININ	IG .												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CU	IOFF												
REPAIR SEAMS													
OTHER ACTION		2013	Fill void with compacted pit run (0.4m³) material @ N pipe down stream end- see photo. If not done.										
OTHER ACTION		2013	Replace Turn down	South East gaurdrail. wn end and install one bolt at p ast	oost at								
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last	Now)	88.9/88.	.9	Sufficiency Rating (Last/No	ow) 9	1.0/91.0	Est	. Repl. Yr	2041	Main	t. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					·	Department Comments	•			·			
Maintenance Reviewed By						Date				Estimated	Total	0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Tom C	arey	F	Previous A	Assistant's Name								
Next Inspection Date	21-No\	v-2014		F	Previous I	vious Inspection Date 20-May-2011							
Inspection Cycle (Default) (months)	21												
Comment													