					Brida	e Culve	ert Insp	ection						
Bridge File Number 00657 -1 Bridge Culvert								CUL1						
Year Built 1980								Lot No.		4				
Bridge or Town	Name		Y					tor Name		Garry Roberts				
Located Over			RN CREEK, 2.	.13.33.8.	WATE	RCRS-	Inspector Class		BR CLS A					
		ST					Assistant Name							
Located On		8:06 C1 4	4.524				Assistant Class							
Water Body Cl./	Year						Inspection Date		30-May-2012					
Navigabil. Cl./Year						Data Entry By		Kelsey Roberts						
		C 7 TWP 24 RGE 3 W5M				Data Entry Date		27-Jun-2012						
		-114:24:0	1.00 E1.01.21					Reviewer Name		Tom Carey				
		Alberta T	a Transportation (AIT)					Review Date		18-Jun-2012				
Contract Main. Area CMA27			7							Tim Davies				
Clear Roadway/Skew 13 /		13 /					Dept. Review Date		29-Jun-2012					
AADT/Year		7,900 / 2	/ 2011 (A)					Follow-Up By						
Road Classifica	-	RAU-210)-110				. Onow Op by							
Detour Length (15												
Bridge Culvert		ation												
Number of Culv	Culverts 1								I					
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Type	Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	4		3151		RPE		44.5		152X51	2.8,2.8,2.8	ELLIPSE		
Special Feature			.020	0.01		T. _	44.3			102/101	72.0,2.0,2.0	122 02		
Special Feature		ment												
, , , , , , , , , , , , , , , , , , ,														
					Uti	lities (L	ocated	at)						
Utility Attachme														
Telephone IN SOUTH DITCH.						Gas Approx 50m N								
Power	APPR	PROX 23 m NORTH - 5 WIRE					Municipal							
Others							Proble	m (Y/N)	No					
Remarks														
				A			I / Embankment Explanation of Condition							
Horizontal Alignment			Last 7	7	Int 100m E									
Horizontal Alignment				8	8									
Vertical Alignment Roadway Width (m) 13.000			0	0										
Ttodaway Widin	(''')		10.000											
Embankment					7	7	4:1 to 6	6:1 @ sou	uth					
Sideslope (:1) 6.0														
(Height of Cov	ver(m) :	1.2)												
Guardrail (Y/N)			Yes			Missing bolts at post #15 from SW turndown								
Annroach Bos	d / E	ankman	t Caparal Bat	ina	7	7								
Approach Road	u / EMK	Jankineni 	. General Kat	iiig	_ ′	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explar	ation of	Condi	tion				
Direction		S		SOUTI	1									
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE											
Headwall					Х	X								
Collar			5	5	SETTLEMENT OF EXTENDED SLAB and widecracks 90 mm SE corner					ks				
Wingwalls			Х	Х										
(Shape:)					1									
Cutoff Wall				N	N									

00657 -1 Bridge Culvert

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	7						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	600								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating		5	5						
		Bri	dge Cu	Ilvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	n): 4929), Rise (mm): 3151, Type: RPE)					
Barrel Last Accessible Date	20-Jan-2009			Inaccessible barrel due to water depth- Could only enter in up to Ring 3.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	N	(200 mm BULGE IN ROOF @ RING #10 @ W ROOF SEAM.) 20-					
Measured Rise (mm)				Jan-2009					
Measured At Ring No.				Estimate					
Sag (mm)	100			Roof has adequate arch uner roadway					
Percent Sag	3			Culvert viewed from ends shape is adequate . PR 5					
Sidewall		N	N	PR 3					
Measured Span (mm)	5000								
Measured At Ring No.	10								
Deflection (mm)	71								
Percent Deflection	1								
Floor		N	N	1500 mm Water					
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	N						
Separation (mm)	0								
Longitudinal Seams		N	N	(CRKS @ LOWER E LONGIT SIDEWALL SEAM FROM RING #2-					
Total No. of Cracked Rings 10				#11. 85mm REMAINING STEEL @ RING #4. 100mm REMAINING STEEL)20-Jan-2009					
Total No. of Rings with Two Cracked Seams	0			(@ RING #6 MIDSPAN, 80mm remaining steel @ ring #7) 20-Jar					
Min. Remaining Steel Between Cracks (mm)	80			2009					
Proper Lap (Y/N)	No			(Only saw cracks in rings 2-8, others under ice) 20-Jan-2009					
Longitudinal Stagger (Y/N)	No								
	1			PR 3 Stagger at roof seams only					
Coating		7	N						
Corrosion By Soil (Y/N)	No			1					
Corrosion By Water (Y/N)	No			1					

		Brid		lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 4929	, Rise (mm): 3151, Type: RPE)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)			1							
Waterway Adequacy	I	7	7							
Icing (Y/N)	No			Approx. 300mm of silt in U/S end.						
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		3	3	GR carried forward						
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		N	11011	NORTH						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)			1							
Cutoff Wall		X	X							
Bevel End		6	6	Rock has settled 300m at both sides of bevel						
Heaving (mm)	200									
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		6	6	Ingrown						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	5	6							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7							
Bank Stability			7							
HWM (m below Top of Culvert) 0.3				No visible HWM						
Drift (Y/N) No										
Channel Bottom AGGRADING Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

			Maintenance Recon	nmendations						
Inspector Recommendations	Yea	ar I	nspector Comments	Departmen	t Commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 33.	.3/33.3	Sufficiency Rating (Last/Now (%)	54.3/47.5	Es	t. Repl. Yr	2022	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection Monitor remaining be necessary.	steel on crac	cked lo	ngitudinal seams- repairs or replacemen	t may Departmen Comments	t					
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 Garry		erts	Pre	Previous Assistant's Name						
Next Inspection Date 28-Fe)14	Pre	Previous Inspection Date 23-Oct-2010						
Inspection Cycle (Default) (months)	21									
Comment										