Bridge Culvert Inspection													
Bridge File Num	ber	76748 -1 Bridge Culvert					Form Type			CUL1			
Year Built		1969					Lot No.			4			
Bridge or Town	Name	GRANI	DE CACHE				Inspect	or Name		Russel Vande	rschaaf		
Located Over WASHY C		Y CREEK, 8.10.	CREEK, 8.10.58.31.2.4,				or Class		BR CLS B				
			RCRS-ST				Assista	nt Name					
Located On		40:34 (	C1 22.163			Assistant Class							
Water Body CI./					Inspection Date			22-Aug-2012					
Navigabil. Cl./Ye							Data Entry By		Theresa Lacu	sta			
Legal Land Loca			C 17 TWP 57 R	GE 7 W6I	М		Data E	ntry Date		24-Sep-2012			
Longitude, Latitu	ude		9:58, 53:55:29				Review	er Name		Eric Carcoux			
Road Authority			Transportation	(AIT)			Review	Date		24-Sep-2012			
Contract Main.		CMA05	j				Dept. R	Reviewer	Name	Steve Pasqua	n		
Clear Roadway/	/Skew	8/					Dept. R	Review Da	ate	04-Jan-2013			
AADT/Year			2011 (A)				Follow-	Up By					
Road Classifica	-	RAU-20	09-110				-						
Detour Length (		400											
Bridge Culvert		ation	4										
Number of Culv	eπs Barrel		2non	non Dioc (or C		Tuna	L ava auth			Corr Drofile	PI./Slab	Chana	
Pipe #	Darrei		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Thickness	Shape	
1	MAIN		2019	2226		SPE		26.2		152X51	2.8	ELLIPSE	
Special Feature	s						-				·		
Special Features Comment													
·													
					Uti	lities (L	ocated	at)					
Utility Attachme									I				
Telephone S. r/w							Gas						
Power 4 w o/h N r/w.							Municipal Problem (Y/N) No						
Others							Probler	n (Y/N)	NO				
Remarks  Approach Road / Embankment													
Approa Last							Explanation of Condition						
Horizontal Alignment				6	Now 6	On a curve, superelevated, limited							
Vertical Alignment				7	7	sight distance. No passing both directions. Top of crest 100m west.							
		9.000	8.000			airectio	ns. rop o	t crest	100m west.				
Roadway Width	(m)		8.000										
Embankment					8	8							
Sideslope (	:1)		3.0										
(Height of Cover(m) : 1.5)													
Guardrail (Y/N)		No											
Approach Road	d / Fmb	nankme	ent General Rat	ina	6	6							
Арргоасп Коа	u / Liiik	Jankine	nt General Kat	g									
						Upstre	am End						
			Last	Now	Explan	ation of	Condi	tion					
			N		_								
End Treatment (Concrete, Steel, Others, None)													
Headwall				Х	X								
Collar			Х	Х									
Wingwalls					Х	Х							
(Shape: )													
Cutoff Wall					Х	X							

76748 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	Tear on east side 400 x 100mm.
Heaving (mm)	350			Toda on odd old 100 x 100mm
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection	10	N	5	
(Type : RIP RAP)		IN	J	
(Avg. Rock Size(mm) : <b>150</b> )				
Scour/Erosion		N	5	
SCOUI/ETOSIOTI		IN IN	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			
Barrel Last Accessible Date	22-Aug-2012			
Special Features				
Special Feature				
(Type:)		'		
Special Feature				
(Type:)		'		
Roof		7	7	
Measured Rise (mm)	2166			
Measured At Ring No.	6			
Sag (mm)				
Percent Sag	3			
Sidewall	J	4	4	Water squirting between plates,
Measured Span (mm)	2086	4	1 4	1st and 2nd ring. crack ring 7.
Measured At Ring No.	6			
Deflection (mm)	67			
Percent Deflection	3			
	<u> </u> 3		T -	
Floor	0	5	5	Light abrasion on u/s of corrugations.
Bulge (mm)	0			, -
Measured At Ring No.	5			
Abrasion (Y/N)	Yes		T -	
Circumferential Seams	1.	7	7	
Separation (mm)	0			
Longitudinal Seams	I	4	4	Ring 7 at 7 o'clock has 140 mm of steel left ONLY ONE BOLT HOLE HAS A CRACK.
Total No. of Cracked Rings	1			Steel left ONET ONE BOLT HOLE HAS A GRACK.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)	140			1N stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Bottom of pipe has scaling/rusting throughout.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Sp	, Rise (mm): 2226, Type: SPE)								
Fish Passage Adequacy		4	4	1.5 DROP D/S						
Baffle		Х	Х							
(Type:)										
Waterway Adequacy			7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			7							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	S								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar			X							
Wingwalls		X	X							
(Shape: )										
Cutoff Wall			X							
Bevel End			6	Snow covered.						
Heaving (mm)	100									
Invert Above/Below Stream Bed ABOVE										
Above/Below (mm) 1500										
Scour Protection			6	Rip-rapped to streambed - not a						
(Type: RIP RAP)				straight drop.						
(Avg. Rock Size(mm) : 500)										
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Downstream End General Rati	ng	6	6							
		\$	Structur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			8							
Bank Stability			7	some sloughing.						
HWM (m below Top of Culvert)				Hwm not visible.						
Drift (Y/N) No										
Channel Bottom Degrading/Aggrading  DEGRADING				Downstream only.						
Beavers (Y/N) No										
(Fish Compensation Measure 1 :										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

			Maintenan	ce Recommen	dations					
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	i									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 44.4/77	44.4/77.8 Sufficie (%)				<b>49.2/65.6</b> Est. Repl. Yr 2		Maint. Re	eqd. (Y/N)	No
Special Monitor crack at rin Comments for Next Inspection	g 7.				Department Comments					
Maintenance Reviewed By				Date		Е	Estimated Tota	I 0		
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Russel Vander	schaaf		Previous	Assistant's Name					
Next Inspection Date	22-May-2014			Previous	Inspection Date	18-Nov-2010				
Inspection Cycle (Default) (months)	21									
Comment										