					D : -							
					Bridg	Bridge Culvert Inspection						
Bridge File Number 77386 -1 Bridge Culvert						Form T		CUL1				
Year Built 1971						Lot No.		2				
Bridge or Town Name CZAR							<u> </u>	pector Name Jason Saly				
Located Over			·				· ·	or Class	BR CLS A			
Located On 41:14 C1 5			50.959				Assista	nt Name				
Water Body CI./Year							Assistant Class					
Navigabil. Cl./Y	'ear							ion Date	27-Nov-2012			
Legal Land Loc	ation S	E SEC	9 TWP 40 RGE 6 W4M				Data Entry By		Marcia Chave	z		
Longitude, Latit	tude -	110:48:2	21, 52:25:20				Data Entry Date		15-Jan-2013			
		ransportation (AIT)				Reviewer Name		John O'Brien				
Contract Main. Area CMA22							Review Date		14-Dec-2012			
Clear Roadway/Skew 11.4 /							Dept. Reviewer Name		Andrew Smikles			
AADT/Year	8	50 / 201	1 (A)				Dept. F	Dept. Review Date 17-Jan-2013				
Road Classifica	ation R	RAU-211	.8-110				Follow-	Follow-Up By				
Detour Length	(km) 4											
Bridge Culvert		tion										
Number of Culv		1										
Pipe #	Barrel	S	Span	Rise (or Dia.)		Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	2	082	2311		SPE		28	152X51	3.5	ELLIPSE	
Special Feature	es											
Special Feature	es Comme	ent										
					Po	sting Ir	nformati	on				
Required Vert.	Clearance	e Postin	g (m)									
Posted Vertical	Clearanc	e (Y/N)	N)								
Posted: Lane	WB	On Br	ridge (m)	In Adv	ance (Y/N)	L	ane EB (On Bridge (m)	In Advan	ce (Y/N)	
Remarks	Not requ	uired. Ca	attlepass.									
	İ				Uti	lities (L	ocated	at)				
Utility Attachme							_					
Telephone			rossing road	50m North	١.		Gas					
Power	4 o/h lin	es, E fe	nce line.				Municip					
Others							Probler	m (Y/N) No				
Remarks												
				A				ankment				
					Last	Now	Intersection 35m North of pipe. Crest curve to the North with limited					
Horizontal Aligr					6	6	Interse	ction 35m Nortl stance. No pas	h of pipe. Crest	curve to the No	rth with limited	
Vertical Alignm			1		5	5	Signt di	Starioo. 140 pac				
Roadway Width	n (m)		11.400									
Embankment				N	N	Snow	overed.					
Sideslope (:1)		3.0			10 10		overeu.					
(Height of Co		2)	3.0				-					
Guardrail (Y/N)		· L)	Voc				-					
` '			Yes			_						
Approach Roa	id / Emba	nkment	General R	ating	5	5						
							am End					
Culvert Compo	onent				Last	Now	Explan	ation of Cond	ition			
Direction			1		W		-					
End Treatment Others, None)	(Concrete	e, Steel,	NONE									
Headwall					Х	X						
Collar				X	X	1						

			Unctro	am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	Explanation of Condition
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	X	Squared end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		ı		
Scour/Erosion		N	X	
Beavers (Y/N)	No			
Upstream End General Rating		7	l N	Provious ratios was 7 from 17Aug2000
Opstream End General Rating		'	N	Previous rating was 7 from 17Aug2009.
				Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2082	, Rise (mm): 2311, Type: SPE)
Barrel Last Accessible Date	27-Nov-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	5	Could not measure rise due to dirt & concrete on floor.
Measured Rise (mm)	2196			Minor perforation in roof of R2. Puncture in R2, mower damage with tears near E end.
Measured At Ring No.				Estimated.
Sag (mm)	115			
Percent Sag	5			
Sidewall		6	6	Span at R2=1999=85mm=4.1%
Measured Span (mm) 1997				Span at R4=2011=71mm Span at R6=2017=65mm
Measured At Ring No. 6				
Deflection (mm) 85				Deflection inwards. 4.1%
Percent Deflection	4			
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	3	Minor superficial rust on exterior roof plates.
Corrosion By Soil (Y/N)	Yes			Some visible R2 minor perforations through roof, no action.
Corrosion By Water (Y/N)	No			
2000.0 Dj Traioi (1/11)	1			2 of 5

		Brid	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm): 2082	, Rise (mm): 2311, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	5	
				ream End
Culvert Component		Last	Now	Explanation of Condition
End Treatment (Concrete, Steel,	NONE	E		
Others, None) Headwall		X	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	Х	
Bevel End		X	X	Squared end.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	250			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300) Scour/Erosion		NI NI	V	
Scour/Erosion		N	X	
Beavers (Y/N)	No			
Downstream End General Rati	ng	7	N	GR was 7 from 17Aug2009.
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	Dirt covered.
Roadway Surface		N	N	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Туре	NONE			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage							
		Last	Now	Explanation of Condition			
Drainage		7	7				
Structure In Use (Y/N) Yes							
Grade Separation General Rating		7	7				

77386 -1 Bridge Culvert

		Maintena	nce Recommendations				
Inspector Recommendations	Year	Inspector 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	2015	Consider cathodic protection.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/No. (%)	ow) 66.7/55	Sufficiency Rating (%)	(Last/Now) 77.6/68.8	Est. Repl. Yr 2034	Maint. Re	qd. (Y/N)	No
Special Monitor corrosion, r Comments for Next Inspection	maybe mark or o	count perforations to see what c	nanges. Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	N						
Proposed Action	2007.05.19 Ch	eck site again in two years to d	etermine continued usage.				
Previous Inspector's Name	Jason Saly		Previous Assistant's Name	evious Assistant's Name			
Next Inspection Date	27-Aug-2014		Previous Inspection Date	08-Mar-2011			
Inspection Cycle (Default) (months)	21						
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