					Brida	e Culve	ert Insp	ection					
Bridge File Number 78441 -1 Bridge Culvert			rt					CUL1					
Year Built 1982							Lot No.			2			
Bridge or Town	Name	MONAR					Inspector Name			Tom Carey			
Located Over							Inspector Class			BR CLS A			
Located On							Assista	Assistant Name		71, 920 / 1			
Water Body Cl./Year							Assistant Class						
Navigabil. Cl./Y							Inspection Date		18-Feb-2013				
Legal Land Loc		SW SEC	29 TWP 10 R	GE 23 W	'4M		Data E	Data Entry By		Anne Roberts			
								Data Entry Date		17-Mar-2013			
		Alberta -	Transportation	(AIT)			Reviewer Name		Garry Roberts				
		CMA25					Review Date		03-Mar-2013				
			7 deg. (LHF)							Tim Davies			
AADT/Year		6,120 / 2	2011 (A)				Dept. Review Date		25-Mar-2013				
Road Classifica	ition	RAU-21	3-130				Follow	-Uр Ву					
Detour Length (	(km)	3											
Bridge Culvert		ation											
Number of Culv	erts		1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	-	7520	3850		RPA		39		152X51	4.0,5.0	ARCH	
Special Feature	s												
Special Feature	s Com	ment											
					117	::::: /!		-1)					
Utility Attachme	nto				Uτ	llities (L	ocated	at)					
	T	ct r/w					Gas		200m	East & 120m S	Courth		
Telephone At East r/w.  Power 1-Line crossing 300m S								200111	00m East & 120m South.				
		•						Municipal Problem (Y/N) No					
Others Fibre optics 5m West.  Remarks						I IUDICI	11 (1/14)	INO					
Remarks				Aı	oproac	ch Road	l / Emb	ankment					
					Last	Now		ation of		tion			
Horizontal Align	Horizontal Alignment			7	7	Intersection 100m South.							
Vertical Alignment				7 7		Hills both sides.							
							Flat over pipe.						
D 1 145 H			12.400										
Roadway Width (m)		13.400	)										
Embankment				7		7							
Sideslope (	:1)		5.0										
(Height of Cov	ver(m) :	(8.0											
Guardrail (Y/N)	Guardrail (Y/N) Yes						Wrong lap at flare ends NE and NW						
Approach Roa	d / Eml	bankmen	nt General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	nent				Last	Now		ation of	Condi	tion			
Direction					W								
End Treatment (Concrete, Steel, Others, None)													
Headwall				5	5	Horizontal medium width crack at lower 3rd.							
Collar			5	5									
Wingwalls				5	5	Spalling @ top SW corner. Minor							
(Shape: )													

78441 -1 Bridge Culvert

			Unetro	am End			
Culvert Component		Last	Now	Explanation of Condition			
Cutoff Wall	1	N	N	Explanation of condition			
Caton Tran			.,				
Bevel End		6	6				
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	600						
Scour Protection		6	6	300mm rock at North West.			
(Type : RIP RAP)				Class 1m at the rest.			
(Avg. Rock Size(mm) : 300)			_				
Scour/Erosion		6	6				
Beavers (Y/N)	No						
Upstream End General Rating		5	5				
			la a G	hort Powel			
Culvert Component				Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			· •			
		pan (mm	): 7520	, Rise (IIIII): 3630, Type: RPA)			
Barrel Last Accessible Date	18-Feb-2013						
Special Features							
Special Feature							
(Type:)							
Special Feature							
(Type:)							
Roof		7	7	Non-galvanized bolts in roof.			
Measured Rise (mm)				lce c			
Measured At Ring No.							
Sag (mm)							
Percent Sag							
Sidewall		7	7				
Measured Span (mm)	7550						
Measured At Ring No.	5						
Deflection (mm)	30						
Percent Deflection	1						
Floor		N	N	AVG 1.2 deep ice			
Bulge (mm)				1			
Measured At Ring No.							
Abrasion (Y/N)							
Circumferential Seams		7	7				
Separation (mm)	0			1			
Longitudinal Seams		5	5	Some loose bolts ring 2 from U/S North sidewall, 2 bolts, 1 missing			
Total No. of Cracked Rings	0			head off bolt.			
Total No. of Rings with Two Cracked Seams	0						
Min. Remaining Steel Between Cracks (mm)	0						
Proper Lap (Y/N)	No						
Longitudinal Stagger (Y/N)	No						
	110	6	6	Alkali stains at South sidewall.			
Coating  Correction By Soil (V/N)	Yes	б	0	Alkali stains at South sidewall.   Minor superficial rust in sidewalls.			
Corrosion By Soil (Y/N)							
Corrosion By Water (Y/N)	Yes						
Camber POS/ZERO/NEG	ZERO						

78441 -1 Bridge Culvert

		Bric	lge Cul	lvert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 7520	, Rise (mm): 3850, Type: RPA)				
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			5					
		D	 ownstr	ream End				
Culvert Component		Last		Explanation of Condition				
Direction		Е						
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		5	5	Crack following profile of pipe. Same as U/S. Some diag cracks, construction crack across, medium width.				
Collar		4	4	Wide 25mm crack NE slope protection, 20mm crack SE slope protection.				
Wingwalls		5	5	Cracks parallel to wing wall at top of collar.				
(Shape: )		5	<u> </u>					
Cutoff Wall		N	N					
Cuton wan		IN	IN .					
Bevel End	I.	6	6					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	600	-	-					
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : <b>300</b> )		7	7					
Scour/Erosion		,	7					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	4	4					
		S	tructur	re Usage				
		Last		Explanation of Condition				
Channel (U/S and D/S)								
Alignment			8	0.45 m dia CSP NW hwy ditch drain				
Bank Stability			8					
HWM (m below Top of Culvert)	1.4							
Drift (Y/N) No								
Channel Bottom Degrading/Aggrading								
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	8					

78441 -1 Bridge Culvert

		Maintenance Re	commendations				
Inspector Recommendations	Year	Inspector Comments	Department Commo	ents	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTO	OFF						
REPAIR SEAMS	2014	Seal cracks at North East and South collars.	East				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/No. (%)	ow) 55.6/55	Sufficiency Rating (Last/I	Now) 65.1/65.1	Est. Repl. Yr 2031	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Tom Carey		Previous Assistant's Name				
Next Inspection Date	18-Nov-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21			18-May-2011			
Comment							