08394 -1 Bridge Culvert

					Brida	e Culve	art Inch	ection					
Bridge File Number	er 083	08394 -1 Bridge Culvert				C Cuive	ert Inspection Form Type		CUL1				
Year Built 1983						Lot No.		2					
Bridge or Town Name ATHABASCA						nspector Name		Todd Warshawski					
Located Over MUSKEG		SKEG CREEK, 8.11.69, WATERCRS-ST			Inspector Class			BR CLS B					
Located On		C1 0					Assistant Name						
Water Body Cl./Ye							Assistant Class						
Navigabil. Cl./Yea							Inspection Date		29-Mar-2013				
Legal Land Locati		SEC	20 TWP 66 R	GE 22 W	/4M		Data Entry By		Theresa Lacus	sta			
Longitude, Latitud							Data Entry Date		17-Apr-2013				
							Reviewer Name		Eric Carcoux				
Road Authority Alberta Transportation (Al Contract Main. Area CMA10			()			Review Date		03-Apr-2013					
Clear Roadway/S							Dept. Reviewer Name						
AADT/Year							Dept. Review Date		23-Apr-2013				
Road Classification		J-210-					Follow-Up By						
Detour Length (kn								-17					
Bridge Culvert In										ı			
Number of Culver		1											
Pipe # Ba	arrel	Sı	pan	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1 M	AIN	86	600	5200		RPE		30		152X51		ELLIPSE	
Special Features													
Special Features	Comment												
Little Arr I					Uti	ilities (L	ocated.	at)					
Utility Attachment									1				
	North r/w.						Gas			side street lights			
	5 wires Sc	utn r/v	W				Municipal North Problem (Y/N) No			side - street ligl	nts.		
Others Remarks							Proble	Flobletti (1714) 140					
Remarks				٨٠	nnroad	h Poar	l / Emb	ankment					
						Now		nation of		tion			
Horizontal Alignment			7	7	_			nin town limits.					
Vertical Alignmen					7	7				er structure plus	sidewalk on Se	outh.	
Roadway Width (m)			13.600										
Embankment					5	5	Minor	arosion at	t S\M to	on of ditch arasi	sed and stable		
		4.0		3	_ J	Minor erosion at SW toe of ditch, grassed and stableJul, 2011							
	•		7.0										
(Height of Cover(m) : 1.5) Guardrail (Y/N) Yes					Concre	Concrete. Jersey barrier.							
Approach Road / Embankment General Rating			7	7									
						Upstre	ı am End						
Culvert Compone	ent				Last	Now		nation of	Condi	tion			
Direction					S								
End Treatment (C Others, None)	Concrete,	Steel,	CONCRETE										
Headwall			7	7	Hairline vertical crack.								
Collar			7	7									
Wingwalls			4	5	SE wing has a wide shrinkage crack & SW wing has wide shrin				wide shrinkage				
(Shape:)						1	crack.F	orm hole	s not fi	lled in.	3	3,	
Cutoff Wall			N	N									

Outroom Comment				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	0	X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	-			
Above/Below (mm)	500		Ι.,	
Scour Protection		6	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 600)		T _	Ι	
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
		Bri	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			·
Barrel Last Accessible Date	29-Mar-2013		•	Ice 2.4m from crown.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	6	
Measured Rise (mm)				
Measured At Ring No.				Sag est.
Sag (mm)	50			
Percent Sag	1			
Sidewall	'	N	N	(Bulging inwards on plate 4, 5 & 7 West wall, #5 being worst at est
Measured Span (mm)		IN	IN	75mm. East wall same but only 25mm bulge. Bulging appears to be
Measured At Ring No.				from support wires during installation. 2002/10/09)
Deflection (mm)	75			Ice to high to rate sidewall
Percent Deflection	10			
		NI.	l NI	les sovered
Floor		N	N	Ice covered
Bulge (mm) Magaured At Bing No.				
Measured At Ring No. Abrasion (Y/N)				
		N.I.	7	Circumforantial acome are standard
Circumferential Seams	0	N	7	Circumferential seams are staggered. Lower seams not viewed/rated.
Separation (mm)	0			
Longitudinal Seams		N	6	(Plates on roof poorly nested. East sidewall longitudinal seams improperly lapped. Lower seams not viewed/rated.
Total No. of Cracked Rings	0			1 1 2 2 11 11 11 11 11 11 11 11 11 11 11
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		7	7	Minor superficial rust up to 0.5m above water levelJul, 2011
Corrosion By Soil (Y/N)	Yes	,		
Corrosion By Water (Y/N)	Yes			Upper 1/2 rated. Corrosion on upper seams/bolts.
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Bric	dge Cul	vert Barrel
Culvert Component (Pipe # : 1, Primary Span, Location Code: MAIN, Spa		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 8600	, Rise (mm): 5200, Type: RPE)
Fish Passage Adequacy		7	7	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	(G.R. was "5" from 09/Oct/2002)
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		Safety fence damaged at NE.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Headwall lightly scaled.
Collar		7	7	
Wingwalls		4	5	Light scaling. Wide vertical shrinkage crack NE & NW. Water
(Shape:)				seepage through vertical cracks.
Cutoff Wall		N	N	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	N	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	4	5	
		s	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			9	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				stable
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	9	

				Maintenance	Recommen	dations					
nspector Recommendations Ye		Year	Year Inspector Comments			Department Con	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITION	NAL RIP RAP										
REMOVE DRIFT	ACCUMULATION										
INSTALL CONCR	ETE/STEEL LINING	}									
INSTALL STRUTS	3										
INSTALL CONCR	ETE COLLAR/CUT	OFF									
REPAIR SEAMS											
OTHER ACTION		2013	Repair	safety fence on NE wingwa	ıll.						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		ow) 55.6/	55.6/55.6 Sufficiency Rating (I (%)		t/Now)	60.3/63.7	Est. Repl. Yr	2034	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor bulging on	East & West v	vall at plate	5, 3:00 position09-Oct-20	02	Department Comments					
Maintenance Reviewed By						Date			Estimated Total	0	
Proposed Long-To	erm Strategy										
On 3-Year Progra	m (Y/N)										
Proposed Action											
Previous Inspector's Name Kris B		Kris Bosters	(ris Bosters			Previous Assistant's Name					
Next Inspection Date 29		29-Dec-2014			Previous	Previous Inspection Date 07-Jul-2011					
		1									
Inspection Cycle (Default) (months)	21									