					Brida	e Culve	ert Insne	ection						
Bridge File Number 07024 -1 Bridge Culvert					Direc	C Guive	Form Type			CUL1				
Year Built 1986				age Curvert			Lot No.		4					
Bridge or Towr	n Name		IGER				Inspector Name		Owen Salava					
Located Over			ARY TO KNEE	HILLS C	RFFK	_	Inspector Class			BR CLS A				
		3.46.14,	WATERCRS-	ST		,	Assistant Name							
Located On		575:02 C	21 33.208				Assistant Class							
Water Body Cl./Year							Inspection Date		25-Jan-2011					
Navigabil. Cl./Year						Data Entry By		Marcia Chavez						
		NW SEC	M SEC 20 TMD 20 DGE 24 M/4M					Data Entry Date		03-Mar-2011				
,		-113.20.52 51.30.00					Reviewer Name		John O'Brien					
		Alberta Transportation (AIT)					Review Date		03-Feb-2011					
Contract Main. Area CMA20		CMA20	۸20							Chris Black				
Clear Roadway/Skew 10.2 /		10.2 /	2 /							04-Mar-2011				
AADT/Year		1,090 / 2	009 (A)				Follow-Up By		04-ivia1-2011					
Road Classific	ation	RCU-209	RCU-209-110				- Pollow-op By							
Detour Length	(km)	6												
Bridge Culver	t Inform	nation												
Number of Cul	verts	1												
Pipe #	Barrel	S	Span Rise (or		Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		3360		SP		76.2		152X51	3.0	ROUND		
Special Featur	es													
Special Featur		ment												
-														
					Uti	ilities (L	ocated	at)						
Utility Attachm	ents													
Telephone South side.						Gas								
Power	South	side 1 wi			Municip									
Others							Probler	n (Y/N)	No					
Remarks														
				Ap				nkment						
							Explanation of Condition Culvert in middle of long. S-curve. Limited visibility both directions.							
Horizontal Alig					7	7	Culvert	in middle	of lon	g. S-curve. Lin	nited visibility b	oth directions.		
Vertical Alignment				7	7									
Roadway Width (m)		10.200												
Embankment					7	7								
Sideslope (:1)		3.5												
(Height of Co	· ·	7.5)												
Guardrail (Y/N)		. 110)	Yes				45 sections @ N, 32 sections @ S.							
Approach Roa	ad / Eml	bankmen	t General Rat	ing	7	7								
Culvert Com	onort						am End	ation of C	ond:	tion				
Culvert Comp	onent				Last S	Now	⊏xpian	ation of C	onai	uon				
Direction End Treatment (Concrete, Steel, STEEL			3		-									
Others, None)	i (Concr	ete, Steel,	SIEEL											
Headwall					Х	Х								
Collar			Х	X										
Wingwalls			Х	X										
(Shape:)														
Cutoff Wall			Х	X										

			11						
Culvert Common on t			Τ'	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End	50	7	7						
Heaving (mm)	50								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		N	N	Snow covered.					
(Type:)									
(Avg. Rock Size(mm):)		1							
Scour/Erosion		N	N	Snow covered.					
Beavers (Y/N)	No								
Upstream End General Rating		7	7						
		Brid	dae Cu	lvert Barrel					
Culvert Component		1		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 3360, Type: SP)					
Barrel Last Accessible Date	25-Jan-2011		· /·	Plate layout from invert is 9N, 9N,					
Barrer Last Accessible Date	25-5411-2011			6N,5N,6N,9N = 44N.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		7	7	Minor construction dents, last ring					
Measured Rise (mm) 3325				D/S, and ring #17 on East sidewall. (Avg rise @ ends 3340mm. Rise @ mid culvert 3325mm. 04-Oct-					
Measured At Ring No.				2004). Not able to measure rise due to ice on floor.					
Sag (mm)	35								
Percent Sag	1								
Sidewall		7	6	Hole in plate #2 from D/S end (E), small. Avg span @ ends 3385mm.					
Measured Span (mm)	3400			Those in place in 2 from 270 one (2), one in 700g opain (2 one occonium.					
Measured At Ring No.	11			1.2%					
Deflection (mm)	40			1.7%					
Percent Deflection	1								
	l l	NI	N	lead over					
Floor	0	N	N	Iced over.					
Bulge (mm)	0								
Measured At Ring No.	No								
Abrasion (Y/N)	No								
Circumferential Seams		8	8						
Separation (mm)	0								
Longitudinal Seams	I.	8	8						
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)	Yes								
Longitudinal Stagger (Y/N)	Yes								
Coating		6	6						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Bridge Culvert Barrel										
Culvert Component		Last	Now	•						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 3360, Type: SP)						
Fish Passage Adequacy		8	8							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		8	8	(500mm flat rock D/S end. 04-Oct-2004).						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		7	6							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	T	N								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	Х							
Collar			X							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		X	X							
Bevel End			7							
Heaving (mm)	0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 160										
Scour Protection		N	N	Snow covered.						
(Type :)										
(Avg. Rock Size(mm):)										
Scour/Erosion		N	N	(Slight erosion on embankment E side D/S end-appears stable now. 04-Oct-2004). Snow covered.						
Beavers (Y/N)	No									
Deavers (1/14)	140									
Downstream End General Ratio	ng	7	7							
			Year You	· · · · · · · · · · · · · · · · · · ·						
		Last	Now	re Usage Explanation of Condition						
Channel (U/S and D/S)		Lasi	INOW	Explanation of Condition						
Alignment			6	Meandering channel.						
Bank Stability			6							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	NONE									
Beavers (Y/N) No										
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		6	6							

			Mainter	nance Recommer	ndations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	6									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 77.8/	66.7	Sufficiency Ratin	g (Last/Now)	78.5/73.1	Est. Repl. Yr	2029	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy									·	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Bryan Wai			Previou	ous Assistant's Name					
Next Inspection Date	25-Apr-2014			Previou	s Inspection Date	20-Feb-2008				
Inspection Cycle (Default) (months)	39									
Comment										