00268 -1 Bridge Culvert

Bridge   Name						Brida	e Culve	ert Insp	ection							
Year Built	Bridge File Num	ber	00268 -	-1 Bridge Culve				<u> </u>		CUL1						
Driving and Town Name								71								
Located One   Su O O RDER TRIBUTARY TO BATTLE   RIVER, 551.3, WATER CRS ST. 3, WATER CRS ST. 3, WATER CRS ST. 4, WATER CRS ST. 3, WATER CRS ST. 4, WATER CRS	Bridge or Town Name PONOKA															
Note																
Cocided On				DIVED 5512 WATEDODS ST						DIT GEOTT						
Mater Body CL/Year   Marcia Chave	Located On 53:08 C1 21.568															
Navigabl   CLYear   Legal Land Location   SW SEC 6 TWP 43 REE 23 W4M   Data Entry Data   O6-Dec-2012	Water Body Cl./	Year								28-Nov-2012	28-Nov-2012					
Legal Land Location   SW SEC 6 TWP 48 RGE 28 W4W   Date   Data Entry Date   Data Contract Main. Area   Contra	Navigabil. Cl./Ye	ear						·								
Longitude   Latitude   Latitude	Legal Land Loca	ation	SW SE	C 6 TWP 43 R	CE 22 \M/4M			, ,								
Read Authority	Longitude, Latitu	ude	-113:20	·18 52·40·03												
Contract Main. Area   CoMA17	Road Authority		Alberta	Transportation	(AIT)											
Dept. Review Date   10-Dec-2012   ADDROVED   Total   ADDROVED   Total   ADDROVED   ADD	Contract Main. A	Area	CMA17	•							les					
AADTYNear	Clear Roadway/	/Skew	9.4 /													
Rad	AADT/Year		1,670 /	2011 (A)												
Number of Culverts	Road Classificat	tion	RAU-20	09-110				. Silow op by								
Number of Culverts   Pipe #   Barrel   Span   Rise (or Dia.)   Type   Length   Corr. Profile   Pil. Siab   Shape   Thickness   Thickness   Shape   Thickness   Th	Detour Length (I	km)	6													
Pipe #			ation													
MAIN   -	Number of Culve	erts		1							1					
1	Pipe #	Barrel		Span	Rise (or	Dia.)	Type		Length	Corr. Profile		Shape				
Special Features	1	MAIN		_	1524		SP		44 7	152X51		ROUND				
Special Features   Surface   Surfa					1021		Į O.		1	102701	0.0	INCOME				
			nent													
Utility Attachments         See Power 1 In r/w to South.         See Power 2 wire on r/w bdry North.         Municipal Municipa	Openial Feature	0 001111	nont.													
Telephone						Uti	ilities (L	ocated	at)							
Power   Pow	Utility Attachme	nts														
Others         Fibre optic North Ir/w.         Problem (v/N)         No           Approach Road / Embankment           Approach Road / Embankment           Collar         Approach Road / Embankment         Collar         X         X         X         Y         7 Field accesses at SW and SE.         intersection 80m W.         in sag curve with limited sight distances both directions; o passing WB.           Embankment         Sideslope (_:1)         3.0         Steep embankment at U/S end (2:1).           Guardrail (Y/N)         No         Between the distances both directions; o passing WB.           Steep embankment at U/S end (2:1).           South end measured.           Collar (Controle, Steel, None)         Separation of Condition           Explanation of Condition           Explanation of Condition           Collar         X         X           Windows at a property of the property of t	Telephone	-						Gas								
Remarks   Rem	Power															
Approach		Fibre	optic No	orth r/w.				Proble	m (Y/N) No							
Horizontal Alignment         Last         Now         Explanation of Condition           Horizontal Alignment         7         7         Field accesses at SW and SE. intersection 80m WB.           Roadway Width (m)         9.500         Image: Intersection 80m WB.         Year Sides Intersection 80m WB.           Embankment	Remarks															
Horizontal Alignment         7         7         Field accesses at SW and SE. in sag curve with limited sight distances both directions; o passing WB.           Roadway Width (m)         9.500         Image:					Ap	ı i										
Vertical Alignment         6         6         intersection 80m W. in sag curve with limited sight distances both directions; o passing WB.           Roadway Width (m)         9.500         Image: Composition of the content of	A Larie and A Discourage															
Roadway Width (m)  9.500  Embankment 7 7 Sideslope (_:1) 3.0  (Height of Cover(m): 3.6)  Guardrail (Y/N)  No  Approach Road / Embankment General Rating 6 6  Culvert Component  Direction  End Treatment (Concrete, Steel, Others, None)  Headwall  Collar  X X  Wingwalls  VB.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.  Steep embankment at U/S end (2:1). South end measured.					-		; intersection 80m W.									
Roadway Width (m)   9.500	vertical Alignment			0	6											
Embankment 7 7 7 Sideslope (_:1) 3.0  (Height of Cover(m) : 3.6)  Guardrail (Y/N) No  Approach Road / Embankment General Rating 6 6  Culvert Component Last Now Explanation of Condition  Direction S  End Treatment (Concrete, Steel, Others, None)  Headwall X X X  Wingwalls X X X   Sideep embankment at U/S end (2:1).  Steep embankment at U/S end (2:1).  South end measured.	Roadway Width	(m)		9 500				VVD.								
Sideslope (_:1)   3.0   Steep embankment at U/S end (2:1).   South end measured.	Noadway Widin (iii) 9.300															
South end measured.   South end measured.   South end measured.	Embankment			7	7	Ct-	Steen emberiument et II/C === 1 (0:4)									
Culvert Component	Sideslope (:1) 3.0						South	ernbankment a end measured.	. U/3 ena (2.1).							
Approach Road / Embankment General Rating 6 6  Culvert Component Last Now Explanation of Condition  Direction S  End Treatment (Concrete, Steel, Others, None) STEEL  Headwall X X  Wingwalls X X  Wingwalls	(Height of Cov	/er(m) :	3.6)					ļ								
Culvert Component	Guardrail (Y/N)			No												
Culvert Component	Approach Book	d / Emb	ankma	nt Conoral Bat	ina	e	e e									
Culvert Component         Last         Now         Explanation of Condition           Direction         S         S           End Treatment (Concrete, Steel, Others, None)         STEEL         X         X           Headwall         X         X         X           Collar         X         X         X           Wingwalls         X         X         X	Approach Koac	u/EMK	ankme	in General Kat	iiig	0	٥									
Direction         S           End Treatment (Concrete, Steel, Others, None)         STEEL         X         X           Headwall         X         X         X           Collar         X         X         X           Wingwalls         X         X         X							Upstre	am End								
End Treatment (Concrete, Steel, Others, None)         STEEL           Headwall         X         X           Collar         X         X           Wingwalls         X         X	<b>Culvert Compo</b>	nent				Last	Now	Explar	ation of Cond	ition						
Others, None)  Headwall  Collar  X  X  Wingwalls  X  X	Direction					S										
Collar X X Wingwalls X X	End Treatment ( Others, None)	(Concre	ete, Stee	el, STEEL												
Wingwalls X X	Headwall					Х	X									
	Collar					Х	Х									
						Х	X									
(Shape: )	(Shape: )															

00268 -1 Bridge Culvert

			Umatus	Ford
Culturant Common and				am End
Culvert Component Cutoff Wall		Last X	Now	Explanation of Condition
Cuton wan		_ ^	_ ^	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		D.::	las Co	lyert Perrel
Culvert Component			Now	Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Local	tion Code: MAIN Sn			, Rise (mm): 1524, Type: SP)
Barrel Last Accessible Date	18-Oct-2006	an (min	<u>,.                                    </u>	Low clearance through center 2/3 L.
Dairei Last Accessible Date	16-001-2006			Upper 1/3 entered; water ~0.6m to roof under road, barrel looks OK.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(Roof sag est. Deep silt. 18Aug2006).
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	66			
Percent Sag	4			(4.3%. 18Oct2006).
Sidewall		N	N	
Measured Span (mm)	1590			
Measured At Ring No.	3			(4.20/, 4.00-+2000)
Deflection (mm)	66			(4.3%. 18Oct2006).
Percent Deflection	4			
Floor		N	N	100mm silt throughout center portion.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	6	
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)	Yes			
Coating		N	6	Superficial rust, lower half.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brid	T	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1524, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		5	5	Bevel projects from fill 400mm.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)			1	
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		6	6	
Bank Stability			6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			Small size.
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

				Ma	aintenance R	ecommen	dations							
Inspector Recommendations	Y	ear	Inspecto	or Comments			Department Cor	mmen	its		Targe	t Year	Est. Cost	Cat #
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUMULATION														
INSTALL CONCRETE/STEEL LINING	3													
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUT	OFF													
REPAIR SEAMS														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/N (%)	low) 55	v) 55.6/55.6		Sufficiency (%)	Sufficiency Rating (Last/Now) (%)		56.1/55.9		t. Repl. Yr	epl. Yr 2021		aint. Red	qd. (Y/N)	No
Special Comments for Next Inspection							Department Comments							
Maintenance Reviewed By							Date			E	Estimate	ed Total	0	
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name	Owen Sa	alava				Previous	Assistant's Name							
Next Inspection Date	28-Aug-2	2014				Previous	Inspection Date		13-Apr-2011					
Inspection Cycle (Default) (months)	21						·		· ·					
Comment														