						Bridge Culvert Inspection								
Bridge File Nur							Form Type		CUL1					
Year Built 1957						Lot No.			4					
Bridge or Town Name FORT SASK					Inspector Name			Shane Hall						
Located Over TRAIL-ANIMAL, OVER SP						Inspector Class		BR CLS A						
Located On		15:04 C	1 1.247				Assistan	t Name						
Water Body Cl.	/Year						Assistan	t Class						
Navigabil. Cl./Y	'ear						Inspection Date		13-Dec-2011					
Legal Land Loc	ation	SE SEC	35 TWP 5	4 RGE 23 W	4M		Data Entry By		Theresa Lacus	Theresa Lacusta				
Longitude, Lati	tude	-113:16:	:47, 53:42:2	21			Data Ent	try Date	29-Jan-2012	29-Jan-2012				
Road Authority Alberta Tra			Fransportation (AIT)				Reviewer Name		Eric Carcoux	Eric Carcoux				
Contract Main.	Area	CMA09					Review I	Date	19-Jan-2012	19-Jan-2012				
Clear Roadway	//Skew	13.7 / -2	7 deg. (LH	deg. (LHF)			Dept. Reviewer Name		ame Brent Herrick	Brent Herrick				
AADT/Year		8,790 / 2	2010 (A)				Dept. Review Date		e 02-Feb-2012					
Road Classifica		RAU-21					Follow-Up By							
Detour Length	(km)	3					1							
Bridge Culver	• •													
Number of Culv			 1											
Pipe #	Barrel		Span	Rise (or	Dia.) Type		L	_ength	Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN		2400	2400		BP	2	28			RECTANGLE			
Special Feature														
Special Feature		nent												
					Po	stina lı	nformatio	on .						
Required Vert.	Clearan	ce Postir	na (m)			-		··						
Posted Vertical				No										
Posted: Lane			Bridge (m)		vance (V/NI)	No Lai	ne SB	On Bridge (m)	In Advar	nce (Y/N) No			
Remarks		quired.	mage (m)	III Au	varice (1/14)	ino Lai	ile OD	On Bridge (III)	III Advai	100 (1/14)			
Remarks	TVOCTO	quircu.			1 14	litios (I	Located a	·+\						
Utility Attachme	ents				Oti	iilles (L	Localeu a							
Telephone							Gas							
Power	4 O/H	line in N	row				Municipa	al l						
Others	4 0/11	IIIIC III IN	TOW				Problem							
							Flobleili	(1/IN) IN	0					
Remarks				Λ	nnrood	sh Boo	d / Embar	akmont						
		А	Last	ch Road / Embankment Now Explanation of Con			ndition							
Horizontal Aligi	nmont				8	8	Бхріана	Explanation of Condition						
							-							
	Vertical Alignment Roadway Width (m) 13.700			8	8									
Toadway Width (III)														
Embankment			8	8										
Sideslope (:1) 3.0														
(Height of Co	ver(m):	0.4)												
Guardrail (Y/N) Yes														
Approach Roa	d / Emb	ankmer	nt General	Rating	8	8								
						Upstre	am End							
Culvert Comp	onent				Last	Now		tion of Co	ondition					
Direction					W	1.1011	Apiaiia							
End Treatment (Concrete, Steel, CONCRETE			V V		-									
Othoro Nama	(Concre	ete, Steel	I, CONCRI	ETE										
Others, None) Headwall	(Concre	ete, Stee	I, CONCRI	ETE	6	6	Scaling	on top edo	ie.					
Others, None)	(Concre	ete, Stee	I, CONCRI	ETE	6 X	6 X	Scaling of	on top edg	le.					

74755 -1 Bridge Culvert

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Wingwalls		6	6	Minor scaling, wide diagonal crack North wingwall. Light scaling.					
(Shape:)			1	Wide diagonal crack NW wall & SW wall. Cold joint on West & East side between wingwall and barrel has spalled and rebar is exposed.					
Cutoff Wall		N	2						
Bevel End		Х	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		X	X						
(Type : NATURAL)									
(Avg. Rock Size(mm):)									
Scour/Erosion		X	X						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Duic	dae Cu	heart Parral					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Local	tion Code: MAIN Sna			· •					
Barrel Last Accessible Date	13-Dec-2011	(111111	<i>j</i> . 2400	, Kise (IIIII). 2400, Type. Dr)					
	13-Dec-2011								
Special Features			1						
Special Feature									
(Type:)			T						
Special Feature									
(Type:)			1						
Roof	I	7	7	Random hairline cracks. U/S - silt.					
Measured Rise (mm)	2424			At c/l of box.					
Measured At Ring No.									
Sag (mm)	24			-					
Percent Sag	1		1	<u> </u>					
Sidewall		6	6	Longitudinal narrow cracks both sidewalls. Wide vertical crack both sidewalls and floor at center of box, crack is narrow in roof.					
Measured Span (mm)	2438			At c/l of box.					
Measured At Ring No.									
Deflection (mm)	38								
Percent Deflection	2		1						
Floor	I	5	5						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		5	5	Vertical cracking @ cold pour joints.					
Separation (mm)	3								
Longitudinal Seams		X	X						
Total No. of Cracked Rings									
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm): 2400	, Rise (mm): 2400, Type: BP)
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
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	6	
		D	ownst	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		Х	Х	
Wingwalls		5	4	Diagonal cracking in walls. Wide cracks at cold joint to barrel.
(Shape:)				Rebar exposed in spalled cold joint.
Cutoff Wall		X	X	
Bevel End		X	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		Х	Х	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		X	Х	
Beavers (Y/N)	No			
Downstream End General Rating			4	
			Structu	re Usage
			Now	Explanation of Condition
Grade Separation				The state of the s
Road Alignment		7	7	
Roadway Surface		5	5	Rebar guardrail on west side is flattened and bent.
				Not in use, no fences.
(Type:)				
Icing (Y/N)	No			

Structure Usage							
		Last	Now	Explanation of Condition			
Traffic Safety Features		Х	X				
Type Rebar guardrail							
Lighting		X	X				
Barrel Leakage (Y/N) No							
Drainage		6	6				
Structure In Use (Y/N)	No						
Grade Separation General Rating		7	5				

		Maintenance	Recommendation	ns					
Inspector Recommendations		partment Comn	nents	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS	Year	Inspector Comments							
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTC)FF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 66.7/66	.7 Sufficiency Rating (Las	st/Now) 72.6/	70.0	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			De	partment mments					
Maintenance Reviewed By			Da	te		Е	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Arnold Assenhe	eimer	Previous Assis	stant's Name					
Next Inspection Date	13-Sep-2013		Previous Inspe	ection Date	16-Mar-2010				
Inspection Cycle (Default) (months)	21								
Comment									