					Brido	e Culv	ert Inspe	ection							
Bridge File Number 76631 -1 Bridge Culvert							Form Type		CUL1						
Year Built 1967						Lot No.			4						
Bridge or Town Name EMPRESS						Inspector Name		Owen Salava							
Located Over TRAIL-ANIMAL, OVER SP				 >			tor Class		BR CLS A						
Located On 41:10 C1 3.639							int Name								
Water Body Cl./Year							int Class								
Navigabil. Cl./Y								tion Date		18-Jul-2012					
Legal Land Loc		E SEC	1 T\//P 23	RGE 2 W	4 N A		1		<u> </u>	Marcia Chavez	7				
Longitude, Lati			54, 50:55:5		TIVI										
			· ·				Data Entry Date 02-Aug-2012 Reviewer Name John O'Brien								
Road Authority Alberta Transportation (AIT)						Review		-	31-Jul-2012						
Clear Readway/Skey 10.6 /								· Nama	Andrew Smikle						
Clear Roadway/Skew 10.6 /									07-Aug-2012	2 5					
AADT/Year Road Classifica		AU-210					Dept. Review Date		07-Aug-2012						
			J-110				Follow-Up By								
Detour Length Bridge Culver							1								
Number of Cul		1	<u> </u>												
Pipe #	Barrel		Span	Pico (or Dia \	Туре		Longth		Corr. Profile	Pl./Slab	Shape			
ripe #					Rise (or Dia.)		Length				Thickness	·			
1	MAIN	1	742	1920		MPE		30.5		68X13	3.5	ELLIPSE			
Special Feature	es														
Special Feature	es Commei	nt													
					Do	etina l	nformati	ion							
Required Vert.	Clearance	Doctin	a (m)			sung n	IIOIIIIau	ЮП							
Posted Vertical				No											
Posted: Lane			ridge (m)		dvance	(V/NI)	No L	ane SB		On Bridge (m)	In Advan	ce (Y/N) No			
Remarks	Not requi		nage (m)	III P	uvance	(1/IN)	INO L	arie SD	, C	n bridge (III)	III Auvani	se (1/IN) INO			
Remarks	Not requi	iieu.			Ut	ilities (l	_ocated	at)							
Utility Attachme	ents					,									
Telephone							Gas								
Power	4 wire 20	00m Ea	ast.				Municip	oal							
Others	1 11111 2 2 2							m (Y/N)	No						
Remarks							1 100101	(17.11)	1110						
Romano					Approa	ch Roa	d / Emba	ankment	f						
					Last	Now		ation of		tion					
Horizontal Aligi	nment		'		6	6				ing NB. Crest curve 100m South on BR 75701.					
Vertical Alignm					6	6		•	J						
		10.600													
Embankmont					7	7									
Embankment			3.0		1	/									
Sideslope (· ·		3.0				-								
(Height of Co			Vaa												
Guardrail (Y/N)) 		Yes												
Approach Roa	ad / Emban	nkmen	t General	Rating	6	6									
						Upstre	am End								
Culvert Comp	onent				Last	Now	Explan	ation of	Condi	tion					
Direction					W										
End Treatment Others, None)	t (Concrete,	, Steel,	, STEEL												
Headwall					Х	X									
Collar			X	X											

				am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape:)		T		
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	80			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100		_	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			· · ·
Barrel Last Accessible Date	18-Jul-2012		,	
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)			_	
Roof		4	4	Could not measure due to dirt & ice on floor.
Measured Rise (mm)				Could not measure due to dirt & ice on noor.
Measured At Ring No.				Estimated.
Sag (mm)	140			7.2%
Percent Sag	7			
Sidewall	,	4	4	
Measured Span (mm)	1875			
Measured At Ring No.	2			
Deflection (mm)	133			7.00/
Percent Deflection	8			7.6%
Floor	J	N	N	Dirt covered.
Bulge (mm)	0	IN	IN	Dirt Goverou.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	80	0	U	
Longitudinal Seams	100	7	7	Riveted.
Total No. of Cracked Rings	0		,	INIVERSAL.
Total No. of Rings with Two	0			-
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		5	5	Superficial rust on floor surface.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			2 of 5

		Brid	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1742	, Rise (mm): 1920, Type: MPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N) No				
Fish Passage Adequacy			X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Downstream End General Rating			7	
				re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Roadway Surface		7	7	
(Type : SOIL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Туре	None			
Lighting		X	X	
Barrel Leakage (Y/N) Yes				

Structure Usage								
		Last	Now	Explanation of Condition				
Drainage		6	6					
Structure In Use (Y/N) Yes								
Grade Separation General Rating			6					

		Maintenance Recon	nmendations								
Inspector Recommendations	Year	Inspector Comments	Department Comm	nents	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) 44.4/44	.4 Sufficiency Rating (Last/Now (%)	9) 66.7/66.2	Est. Repl. Yr	2024	Maint. Re	qd. (Y/N)	No			
Special Site still in use; con Next Inspection	tinue inspection.		Department Comments								
Maintenance Reviewed By	Date		Estimated Total 0								
Proposed Long-Term Strategy	2004.05.30 Mo	nitor on normal BIM. Culvert should be ok	until 2017.								
. repease zong ronn chang,		2100									
On 3-Year Program (Y/N)	N										
Proposed Action	2007.05.21 Revisit site again in two years to determine continued usage.										
		, , , , , , , , , , , , , , , , , , ,									
Previous Inspector's Name	Jason Saly	Pre	evious Assistant's Name								
Next Inspection Date	18-Apr-2014	Pre	evious Inspection Date	30-Mar-2011							
Inspection Cycle (Default) (months)	21										
. , , , , , , , , , , , , , , , , , , ,	+										