					Brida	e Culve	ert Inspection					
Bridge File Nur	idge File Number 73581 -1 Bridge Culvert						Form Type	CUL1	CUL 1			
			1 bridge Culv	GIL			Lot No.					
Year Built 1965								-	4			
Bridge or Town Name MORECA							Inspector Name					
Located Over						Inspector Class Assistant Name						
Located On		1 21.807	1 21.807									
Water Body Cl.							Assistant Class					
Navigabil. Cl./Y							Inspection Date	22-Jan-2013	22-Jan-2013			
Legal Land Loc	cation	SW SEC	C 17 TWP 54	RGE 10 W	4M		Data Entry By	Marcia Chave	Marcia Chavez			
Longitude, Lati	tude	-111:26	:35, 53:39:38				Data Entry Date	e 28-Feb-2013	28-Feb-2013			
Road Authority	•	Alberta	a Transportation (AIT)				Reviewer Name	John O'Brien	John O'Brien			
Contract Main.	Area	CMA14					Review Date	13-Feb-2013	13-Feb-2013			
Clear Roadway	//Skew	9.2 /					Dept. Reviewer	Name Chris Black	Chris Black			
AADT/Year		570 / 20)11 (A)				Dept. Review D	ate 14-Mar-2013				
Road Classifica	ation	RAU-20	9-110				Follow-Up By					
Detour Length	(km)	3										
Bridge Culver												
Number of Culv			1									
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1724	1901		MPE	21.3	68X13	3.5	ELLIPSE		
Special Feature	es											
Special Feature	es Comi	ment			Po	stina li	nformation					
Required Vert.	Clearan	co Poeti	na (m)			Sung I	Hormation					
Posted Vertical						() (() 1)	1 05	On Dridge (m)	La Aalaaa	(X//NI)		
Posted: Lane			Bridge (m)	In Adv	ance ((Y/N)	Lane SE	On Bridge (m)	In Advar	nce (Y/N)		
Remarks	Not re	equirea; c	cattle crossing].								
Living Ave I					Uti	ilities (L	ocated at)					
Utility Attachme								1				
Telephone		d in Sou					Gas					
Power	3 line	North, fe	enceline.				Municipal					
Others							Problem (Y/N)	No				
Remarks												
				A			d / Embankmen					
					Last	Now	Explanation of Condition					
Horizontal Aliga Vertical Alignm					6	6	Intersection 400m West. Curve 300m East. Structure located near top of crest curve. Poor sight distance to East.					
Roadway Width (m)		9.200				Wide transverse crack in roadway over pipe. Previously sealed.						
Embankment				5 N		Snow covered,	but no signs of proble	ems.				
Sideslope (:1)		3.0										
(Height of Co	ver(m) :	1.2)										
Guardrail (Y/N)		Yes										
Approach Roa	ad / Eml	oankmer	nt General R	ating	6	6						
						Upstre	am End					
Culvert Component				Last	Now	Explanation of	Condition					
Direction					N							
End Treatment (Concrete, Steel, Others, None)												
Others, None)	(0011010	ete, Stee	I, NONE									
Others, None) Headwall	(Concre	ete, Stee	I, NONE		X	X						

Outroot Commonst				eam End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	_
(Shape:)		X		
Cutoff Wall			X	
Bevel End			X	Square end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	N	(Some rock. Takes some flow from N. 07Jun2011) - Snow covered,
(Type : NATURAL)				but no signs of problems.
(Avg. Rock Size(mm):)				
Scour/Erosion		6	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		6	N	GR was 6 from 07Jun2011.
		D si	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			-
Barrel Last Accessible Date	22-Jan-2013	pair (iiiii	.,, <u>.</u>	
Dairei Last Accessible Date	22-Jan-2013			
Special Features			_	
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	5	Minor mower damage in roof at S end of pipe.
Measured Rise (mm)				Could not measre rise due to dirt on floor.
Measured At Ring No.				
Sag (mm)	16			Estimate. 0.8%.
Percent Sag	0			
Sidewall		5	5	Span at N end=1621=103mm=6%Span at midspan=1766=42mm
Measured Span (mm)	1621			Span at S end=1638=86mm
Measured At Ring No.	1			Inwards.
Deflection (mm)	103			
Percent Deflection	6			
Floor		N	N	Covered with dirt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	80			
Longitudinal Seams		7	7	Riveted.
Total No. of Cracked Rings	0			- · · · · · · · · · · · · · · · · · · ·
Total No. of Rings with Two	-			
Cracked Seams Min. Remaining Steel				
Between Cracks (mm)	Voc			_
Proper Lap (Y/N)	Yes			-
Longitudinal Stagger (Y/N)	Yes			
Coating	1	6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			2 of 5

73581 -1 Bridge Culvert

		Brio	dge Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: MPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	Takes some flow from North.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
				eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	Square end. Fenced off.
Heaving (mm)	0			·
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	N	Snow covered, but no signs of problems.
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	N	GR was 6 from 07Jun2011.
		S	Structur	re Usage
			Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Roadway Surface		7	7	
(Type:)				
Icing (Y/N)	No			
Traffic Safety Features		Х	Х	
Type None				
Lighting		Х	Х	
Barrel Leakage (Y/N)	No			

Structure Usage								
	l l			Explanation of Condition				
Drainage		7	7					
Structure In Use (Y/N) No				New fencing to culvert at S, unsure of use.				
Grade Separation General Rating			7					

		Maintananaa D							
In an actor Decompose detices	Year	Maintenance R		ns partment Comm			Townst Voor	Fat Cast	C-4.#
Inspector Recommendations							Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO)FF								+
REPAIR SEAMS	/1 I								
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 55.6/55	.6 Sufficiency Rating (Last/	(Now) 65.1/	/63.1	Est. Repl. Yr	2029	Maint. Red	qd. (Y/N)	No
Special Comments for Next Inspection			De	partment mments					
Maintenance Reviewed By	Da	te		E	stimated Total	0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action	2008.01.03 Str	ucture should be checked in respect t	o internal saggir	ng. Brownlee & A	Associates				
Previous Inspector's Name	Jason Saly		Previous Assis	Previous Assistant's Name					
Next Inspection Date	22-Oct-2014		Previous Inspe	ection Date	07-Jun-2011				
	21								
Comment									