					Brida	a Culve	art Insn	ection				
Bridge File Number 7056		70562 -	70562 -1 Bridge Culvert			ert Inspection Form Type			CUL1			
Year Built 1956			•				Lot No.		1			
Bridge or Town	n Nama						Inspector Name		Owen Salava			
Located Over	ITIVALLIC	MCCONNELL COULEE, 3.30.2,				Inspector Class BR CLS A						
Located Over		WATERCRS-ST					Assistant Name					
Located On		576:02 (76·02 €1 21 374				Assistant Class					
Water Body Cl	l./Year						Inspection Date 27-Jan-2011					
Navigabil. Cl./	Year							Data Entry By Marcia Chavez				
Legal Land Lo	cation	SW/ SEC 1/ TWD 20 PGE 18 W//M						Data Entry Date 03-Mar-2011				
Longitude, Lat	itude	1-112·25·50 51·28·27					Reviewer Name John O'Brien					
Road Authority	/	Alberta Transportation (AIT)					Review Date 03-Feb-2011					
Contract Main.	. Area	CMA21	CMA 24					Dept. Reviewer Name Chris Black				
		8.3 /	0.2./					Dept. Reviewer Name Critis Black Dept. Review Date 07-Mar-2011				
AADT/Year 5		520 / 2009 (A)						Follow-Up By				
Road Classific	ation	RCU-20	-208-110				- Ollow-Op By					
Detour Length	(km)	3										
Bridge Culver	t Inform	nation										
Number of Cul	lverts		1									
Pipe #	Barrel		Span	Rise (or Dia		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape
1	MAIN		-	2019		SP		39		152X51	3.0	ROUND
Special Featur	es						00					<u>'</u>
Utility Attachm	ents				Ut	ilities (L	ocated	at)				
Telephone	CHO						Gas		70 M	West		
Power N side U/S end-3W O/H in ditch			·ch				Municipal					
Others	11 5151	<i>5</i>					Problem (Y/N) No					
Remarks								()				
				Ap	proa	ch Road	l / Emb	ankment				
					Last	Now	Explanation of Condition					
Horizontal Alig	nment				7	7	Land access road 100m W. Limited sight distance from West.					
Vertical Alignm	nent				6	6				rom vvest. assing WB.		
Roadway Widt	th (m)		8.300									
Embankment					7	7						
Sideslope (_	:1)		3.0									
(Height of Co		5.1)		,			-					
Guardrail (Y/N		,	No									
Approach Ros	ad / Eml	bankmer	nt General Rat	ing	6	6						
						Upstre	am End					
Culvert Comp	onent				Last	Now		nation of	Condi	tion		
Direction					N	111011	_xp.a.	Explanation of Condition				
End Treatment Others, None)	t (Concre	ete, Stee	I, STEEL									
Headwall					Х	Х						
Collar					Х	X						
Wingwalls				Х	X							
(Shape:)						<u></u>						
Cutoff Wall				Х	Х							

70562 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	(Some perforations on floor.)
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		6	N	(Sparce rock. 18Feb2009).
(Type:)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 2019, Type: SP)
Barrel Last Accessible Date	27-Jan-2011			(Measured 2100 x 2138 @ R7. 18Feb2009). 2019mm not std dia. so sags & deflections could be in error.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		3	3	Isolated perforations in R8-10 lower roof. Unable to measure snow
Measured Rise (mm)	2138			on floor.
Measured At Ring No.	7			(Upwards. 18Feb2009).
Sag (mm)	119			(5.9%. 18Feb2009).
Percent Sag	6			
Sidewall		3	3	Perforations in rings 5 - 11 inclusive - both sidewalls. 50 x 75 dia hole
Measured Span (mm)	2100			R 11 west side from construction.
Measured At Ring No.	7			
Deflection (mm)	81			
Percent Deflection	4			
Floor		4	N	Snow covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	Barrel extended 2 rings each end.
Separation (mm)	0			
Longitudinal Seams		6	6	Bolts loose. (2%)
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				1N Stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		3	3	Perforated sidewalls R5-11 inclusive.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

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		Brio	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2019, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		D	ownst	ream End
Culvert Component			Now	Explanation of Condition
Direction		S	11.011	
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 end undermined 600mm. Minor bend in floor. 18Feb2009).
Heaving (mm)	300			Snow covered floor.
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	N	(Rock in channel. 18Feb2009). Snow covered.
(Type:)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	N	Snow covered.
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	Winding U/S & D/S.
Bank Stability		6	6	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

70562 -1 Bridge Culvert

		Maintenance	Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Cor	mments	Target 1	Year Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	N						
INSTALL CONCRETE/STEEL LIN	ING						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/C	UTOFF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Las (%)	st/Now) 33.3/3	Sufficiency Rating (Lat	st/Now) 52.5/52.5	Est. Repl. Yr	2018 Mai	nt. Reqd. (Y/N)	No
Special Comments for Next Inspection Pipe still has ad to monitor on re	equate shape & pegular cycle.	erforations are not close to being criti	ical. Continue Department Comments				
Maintenance Reviewed By			Date		Estimated	d Total 0	
Maintenance Reviewed By Proposed Long-Term Strategy	Advance repla	acement to 2016. RS	Date		Estimated	d Total 0	
·	Advance repla	acement to 2016. RS	Date		Estimated	d Total 0	
Proposed Long-Term Strategy	Advance repla	acement to 2016. RS	Date		Estimated	d Total 0	
Proposed Long-Term Strategy On 3-Year Program (Y/N)	Advance repla		Date Previous Assistant's Name		Estimated	d Total 0	
Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name	Garry Roberts		Previous Assistant's Name	18-Feb-2009	Estimated	d Total 0	
Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action	Garry Roberts 27-Apr-2014				Estimated	d Total 0	