					Brida	e Culve	ert Inspe	ection				
Bridge File Nur	mber	77101 -1	I Bridge Culve	rt			Form Type		CULM			
Year Built 1983						Lot No.		4				
Bridge or Town Name IRON SPRINGS							or Name	Garry Roberts				
Located Over			RIGATION C, \	WATERCRS-IC			i	or Class	BR CLS A	-		
Located On							Assistant Name					
Water Body Cl.	./Year						Assistant Class					
Navigabil. Cl./Year				Inspection Date			21-Mar-2012	21-Mar-2012				
			25 TWP 11 RGE 20 W4M				Data Eı	Data Entry By Lauren Korte				
Longitude, Latitude -112:37:15			15, 49:56:08				Data Entry Date 12-Apr-2012					
Road Authority Alberta Tr			Fransportation (AIT)				Reviewer Name Tom Carey					
Contract Main. Area CMA25							Review	Review Date 23-Mar-2012				
Clear Roadway/Skew 9.8 /							Dept. R	Dept. Reviewer Name Tim Davies				
AADT/Year		1,030 / 2	2011 (A)				Dept. R	Dept. Review Date 17-Apr-2012				
Road Classifica	ation						Follow-	Up Ву				
Detour Length	(km)	3										
Bridge Culver	t Inform	nation										
Number of Culv	verts		2	ı								
Pipe #	Barrel		Span Rise (or Dia.) T			Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-	•	1400		MP		20			ROUND	
2	MAIN	-	•	1400		MP		20			ROUND	
Special Feature	es											
Special Feature	es Comi	ment										
					114	l:4:00 /I		~4 \				
Litility Attachmy	onto				Οti	lities (L	ocated	at)				
Utility Attachme		DOW/					Gas					
Telephone Power		ROW.					Municipal					
Others	Lasir	ROW.					Probler					
Remarks							i iobiei	II (1/1 4)				
Remarks				Ar	oproac	:h Road	d / Emba	ınkment				
								ation of Con	dition			
Horizontal Aligi	nment					9						
Vertical Alignm	ent					7	1					
Roadway Widtl	h (m)		8.200									
Embankment						6						
Sideslope (_:1)		1.5				1.0 m average.					
(Height of Co	ver(m) :	: 1)										
Guardrail (Y/N)	•		No									
Approach Roa	ad / Eml	bankmen	t General Rat	ing		7						
						Upstre	am End					
Culvert Comp	onent				Last			ation of Con	dition			
(Pipe #: 1, Sp	an Type	e: Primar	y Span)									
Direction		W		West end- South pipe.								
End Treatment Others, None)	(Concre	ete, Steel	, STEEL									
Headwall						X						
Collar	Collar				Х							
Wingwalls						Х						
(Shape:)												

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall			Х	
Bevel End			6	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			6	
		Brio	ige Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1400, Type: MP)
Barrel Last Accessible Date	21-Mar-2012			
Special Features				
Special Feature				South pipe.
(Type:)				
Special Feature				
(Type:)				
Roof			7	
Measured Rise (mm)	1390			
Measured At Ring No.	3			
Sag (mm)	10			
Percent Sag	1			
Sidewall			6	
Measured Span (mm)	1410			
Measured At Ring No.	3			
Deflection (mm)	10			
Percent Deflection	1			
Floor			5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No		1	
Circumferential Seams	1		6	Sealed with oakum.
Separation (mm)	60			
Longitudinal Seams	1		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)				
Coating			4	Corrosion with pitting on floor and to mid sidewall.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

	Bridge Culvert Barrel									
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1400, Type: MP)						
Camber POS/ZERO/NEG										
Ponding (Y/N)	No									
Fish Passage Adequacy			5							
Baffle			Х							
(Type:)										
Waterway Adequacy			7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			6							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Span Type: Primary	Span)									
Direction	I	E		East end- South pipe.						
End Treatment (Concrete, Steel, Others, None)	NONE									
Headwall			X							
Collar			X							
Wingwalls			X							
(Shape:)			1							
Cutoff Wall			X							
Bevel End			X							
Heaving (mm)										
Invert Above/Below Stream Bed										
Above/Below (mm)	0		1							
Scour Protection			5							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 250)		I	1							
Scour/Erosion			5							
Beavers (Y/N)	No									
Downstream End General Ratin	ng		5							
				am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)	1,47		lur a lura i						
End Treatment (Concrete, Steel, STEEL		W		West end- North pipe.						
Others, None) Headwall	0.222		Х							
Collar			X							
Wingwalls			X							
(Shape:)			X							
Cutoff Wall			_ ^							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Span Type: Second	lary Span)			
Bevel End			6	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0		_	
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)			_	
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			6	
		Bric	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1400, Type: MP)
Barrel Last Accessible Date	21-Mar-2012			North pipe.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof			7	
Measured Rise (mm)	1485			
Measured At Ring No.	3			
Sag (mm)	15			
Percent Sag	1			
Sidewall			6	
Measured Span (mm)	1420			
Measured At Ring No.	3			
Deflection (mm)	20			
Percent Deflection	1			
Floor			6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			5	Sealed with oakum.
Separation (mm)	70			
Longitudinal Seams			Х	
Total No. of Cracked Rings				
Total No. of Rings with Two				
Cracked Seams Min. Remaining Steel				
Between Cracks (mm)				
Proper Lap (Y/N)	<u> </u>			
Longitudinal Stagger (Y/N)				<u></u>
Coating			4	Heavy corrosion with pitting at floor and to mid sidewall.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG				

		Brid	dae Cu	Ivert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 1400, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			Х	
(Type:)				
Waterway Adequacy			6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			6	
		_		
2 1 2 1 1 1 1 1 1 1				ream End
Culvert Component	l\	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1_		I
Direction		E		East end- North pipe.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall			X	
Collar			Х	
Wingwalls			Х	
(Shape:)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion			5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng		5	
			· ·	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)		Last	INOW	Explanation of condition
Alignment			5	90 degree turn 20m D/S. Irrigation canal. Turnouts both ends.
Bank Stability			7	
HWM (m below Top of Culvert)	0.2			Waterline on bank.
Drift (Y/N)	No			1
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :				
Channel General Rating			5	

Bridge Inspection & Maintenance System (Web 2005)

77101 -1 Bridge Culvert

		Maintenance Reco	mmendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	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) /66.7	Sufficiency Rating (Last/Nov (%)	v) /64.0	Est. Repl. Yr 202		Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name		Pr	evious Assistant's Name					
Next Inspection Date	21-Jun-2015	Pr	evious Inspection Date					
Inspection Cycle (Default) (months)	39							
Comment								