						o o ai v	ert Inspec					
Bridge File Nur	mber	76002 S-1 Bridge Culvert					Form Type		CULE			
Year Built		1982				Lot No.		1				
Bridge or Towr	n Name					Inspector Name		Wade Nanninga				
Located Over					ERCF	RS-ST	Inspector		BR CLS A			
Located On 63:10 L1 38.277							Assistant	t Name				
Water Body Cl	l./Year						Assistant	t Class				
Navigabil. Cl./\	Year						Inspectio	n Date	16-Nov-2011			
Legal Land Loo	cation	NE SEC	26 TWP 87 R	RGE 9 W4M			Data Enti	ry By	Lisa Fairhurst	:		
Longitude, Lati	itude	-111:18:	58, 56:34:47				Data Enti	ry Date	12-Dec-2011			
Road Authority	/	Alberta ⁻	Transportation	ı (AIT)			Reviewer	Reviewer Name Eric Carcoux				
Contract Main.	. Area	CMA07					Review D	Date	23-Nov-2011			
Clear Roadway	y/Skew	13.4 / -4	0 deg. (LHF)				Dept. Rev	viewer Name	Brent Herrick			
AADT/Year	-	6,900 / 2	2010 (A)				Dept. Rev	view Date	19-Dec-2011			
Road Classifica	ation	RAD-41	2.4-120				Follow-U	р Ву				
Detour Length	(km)	1										
Bridge Culver	· · · · ·	ation										
Number of Cul	lverts		1									
Pipe #	Barrel	:	Span	Rise (or Di	ia.)	Туре	L	ength	Corr. Profile	PI./Slab Thickness	Shape	
1	U/S		-	3050		SP	8	8.534	152X51	3.0	ROUND	
1	MAIN		2314	2552		SPE	6	0.518	152X51	3.0	ELLIPSE	
1	D/S			3050		SP	9	.144	152X51	3.0	ROUND	
Special Featur	es											
Special Featur	es Comi	ment										
Utility Attachme	ents				Util	lities (L	Located at	t)				
Utility Attachmo Telephone	ents E and	W ROW		N.	Util	lities (L	Gas					
Power	ents E and	W ROW	5 wire 100m	N.	Util	lities (L	Gas Municipa					
Utility Attachmo Telephone	ents E and	W ROW		N.	Util	lities (l	Gas					
Utility Attachmo Telephone Power Others	ents E and	W ROW					Gas Municipa	l (Y/N) No				
Utility Attachmo Telephone Power Others	ents E and	W ROW		Арр			Gas Municipa Problem d / Emban	l (Y/N) No	tion			
Utility Attachmo Telephone Power Others	ents E and 3 wire	W ROW		Арр	oroac	h Road	Gas Municipa Problem d / Emban Explanat	I (Y/N) No	tion			
Utility Attachmo Telephone Power Others Remarks	ents E and 3 wire	W ROW		Арр	proac .ast	h Road	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachme Telephone Power Others Remarks Horizontal Alig Vertical Alignm	ents E and 3 wire	W ROW		Арр	oroac .ast 7	h Road Now 7	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt	ents E and 3 wire	W ROW	5 wire 100m	Арр	oroac .ast 7	h Road Now 7	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachmo Telephone Power Others Remarks Horizontal Alig	ents E and 3 wire	W ROW	5 wire 100m	Арр	oroac .ast 7 8	h Road Now 7 8	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment	ents E and E and 3 wire a unment th (m) _:1)	W ROW	5 wire 100m	Арр	oroac .ast 7 8	h Road Now 7 8	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachme Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_	ents E and E and 3 wire a ment th (m) _:1) over(m) :	W ROW	5 wire 100m	Арр	oroac .ast 7 8	h Road Now 7 8	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and 3 wire a pnment th (m) _:1) over(m) :	W ROW E ROW, 3.9)	5 wire 100m		oroac .ast 7 8	h Road Now 7 8	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and 3 wire a pnment th (m) _:1) over(m) :	W ROW E ROW, 3.9)	5 wire 100m		7 7 7 7 7	h Road Now 7 8 7 7 7	Gas Municipa Problem d / Emban Explanat	II (Y/N) No (Kment tion of Condi	tion			
Utility Attachme Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and E and 3 wire a ment th (m) _:1) over(m) :) ad / Eml	W ROW E ROW, 3.9)	5 wire 100m	App L	7 7 7 7 7	h Road Now 7 8 7 7 7	Gas Municipa Problem d / Emban Explanat Curve 20	II (Y/N) No (Kment tion of Condi				
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and E and 3 wire a ment th (m) _:1) over(m) :) ad / Eml	W ROW E ROW, 3.9)	5 wire 100m	App L	7 7 7 7 7 7	h Road Now 7 8 7 7 Vpstre	Gas Municipa Problem d / Emban Explanat Curve 20	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and 3 wire 3 wire inment th (m) :1) over(m) :) ad / Emi	W ROW E ROW, 3.9)	5 wire 100m 13.400 6.0 No t General Rat	App Li	7 7 7 7 7 7	h Road Now 7 8 7 7 Vpstre	Gas Municipa Problem d / Emban Explanat Curve 20	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
Utility Attachme Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and 3 wire 3 wire inment th (m) :1) over(m) :) ad / Emi	W ROW E ROW, 3.9)	5 wire 100m 13.400 6.0 No t General Rat	App Li	7 7 7 7 7 7	h Road Now 7 8 7 7 Vpstre	Gas Municipa Problem d / Emban Explanat Curve 20	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
Utility Attachmo Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and 3 wire 3 wire inment th (m) :1) over(m) :) ad / Emi	W ROW E ROW, 3.9)	5 wire 100m 13.400 6.0 No t General Rat	App Li	Proac ast 7 8 7 7 7 7 7 7	h Road Now 7 8 7 7 7 Vpstre Now	Gas Municipa Problem d / Emban Explanat Curve 20	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
Utility Attachme Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ents E and 3 wire 3 wire inment th (m) :1) over(m) :) ad / Emi	W ROW E ROW, 3.9)	5 wire 100m 13.400 6.0 No t General Rat	App Li	7 8 7 7 7 7 7 7 8 8	h Road Now 7 8 7 7 Vpstre Now	Gas Municipa Problem d / Emban Explanat Curve 20	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				

Alberta Transportation

			Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall		N	N					
Bevel End		9	9					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 3050, Type: SP)				
Barrel Last Accessible Date	16-Nov-2011							
Special Features								
Special Feature								
(Type :)								
Special Feature								
(Type :)								
Roof		5	5					
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)								
Percent Sag	5			est. 5%				
Sidewall		N	3	3 cracked rings				
Measured Span (mm)	2420							
Measured At Ring No.	12							
Deflection (mm)	106							
Percent Deflection	5							
Floor		N	3	Loss of section at R 8, 9, 12 - 4:30 @ 6 o'clock				
Bulge (mm)	0							
Measured At Ring No.				1				
Abrasion (Y/N)	Yes							
Circumferential Seams		5	5					
Separation (mm)	0		-	1				
Longitudinal Seams		N	3	R 8. 9, 12 - No change from 2004				
Total No. of Cracked Rings	3							
Total No. of Rings with Two	-							
Cracked Seams Min. Remaining Steel	80							
Between Cracks (mm)				-				
Proper Lap (Y/N)	No			-				
Longitudinal Stagger (Y/N)	No							
Coating	1	N	3	Isolated perforations in sidewall. Extensive perforations in floor Loss of section from 4:30 - 5 o'clock at R 8,9,12.				
Corrosion By Soil (Y/N)	Yes			pitting lower half.				
Corrosion By Water (Y/N)	Yes							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76002 S-1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	ation Code: U/S, Span	(mm):	, F	Rise (mm): 3050, Type: SP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		6	6					
Baffle		Х	Х					
(Туре :)								
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel Extension General Rati	ng	3	3					
		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa			· _ •				
Barrel Last Accessible Date	16-Nov-2011			Ice/silt along floor				
Special Features								
Special Feature								
(Type :)								
Special Feature								
(Туре :)								
Roof		9	9					
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)				estimated				
Percent Sag	1							
Sidewall		9	9					
Measured Span (mm)	3060		-	At c/l of East extension.				
Measured At Ring No.				1				
Deflection (mm)	10							
Percent Deflection	1							
Floor		N	N					
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		9	9					
Separation (mm)	0							
Longitudinal Seams		9	9					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	Yes			1				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76002 S-1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		1		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa							
Coating		9	8					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	No							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		7	7					
Baffle		Х	X					
(Type :)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		9	9					
	1	D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	1	W		-				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		Х	X					
Wingwalls		Х	Х	_				
(Shape :)								
Cutoff Wall		Х	X					
Bevel End		9	9					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	200							
Scour Protection		8	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)		,						
Scour/Erosion		8	7					
Beavers (Y/N)	No							
Downstream End General Ratin	າg	8	7					
		S	Str <u>uctu</u>	re Usage				
			Now	Explanation of Condition				
Channel (U/S and D/S)	·							
Alignment		8	8					
Bank Stability		7	7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
			Dogo	1				

Structure Usage								
	Last Now Explanation of Condition							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

			Maintenance Recom	mendations						
Inspector Recommendations		ar	Inspector Comments	Department Corr	nments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTC)FF									
REPAIR SEAMS										
OTHER ACTION	201	15	Install liner.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow) 33.	.3/33.3	Sufficiency Rating (Last/Now) (%)	51.3/50.6	Est. Repl. Yr	2015	Maint. Rec	qd. (Y/N)	Yes	
Special Comments for Next Inspection				Department Comments						
Maintenance Reviewed By				Date		E	Estimated Total	0		
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Wade Nan	nninga	Prev	vious Assistant's Name	s Assistant's Name					
Next Inspection Date	16-Aug-20	13	Prev	vious Inspection Date	us Inspection Date 10-Mar-2010					
Inspection Cycle (Default) (months)	21	1								
Comment										