				Brid	dge Culv	ert Inspection	on					
Bridge File Nu	umber	76427 S	S-1 Bridge Culv	ert		Form Type	•	CULE				
Year Built		1966				Lot No.		1				
Bridge or Tow	n Name		COURSE CUL			Inspector Name		Eric Carcoux				
		PROVIN WAND	ICIAL HIGHW	AY 63 12 KM	SOF	Inspector C	Class	BR CLS A				
Located Over			ARY TO LA B	CHE RIVER.		Assistant N	Name					
		8.11.55.	4, WATERCR	S-ST		Assistant C	Class					
Located On		63:02 C	1 32.000			Inspection	Date	13-Jan-2012				
Water Body C	I./Year					Data Entry	Ву	Theresa Lacu	sta			
Navigabil. Cl./	Year					Data Entry	Date	22-Jan-2012				
Legal Land Lo	ocation	SE SEC	27 TWP 70 R	GE 17 W4M		Reviewer N	Name	Arnold Assen	heimer			
Longitude, Lat	titude	-112:30	:36, 55:05:06			Review Da	ite	16-Jan-2012				
Road Authorit	У	Alberta	Transportation	(AIT)		Dept. Revi	ewer Name					
Contract Main	n. Area	CMA07				Dept. Revi	ew Date	02-Feb-2012				
Clear Roadwa	ay/Skew	10.6 / -1	0 deg. (LHF)			Follow-Up	Ву					
AADT/Year		3,790 / 2	2010 (A)									
Road Classific		RAU-21	1.8-110									
Detour Length		3										
Bridge Culve												
Number of Cu			2									
Pipe #	Barrel		Span	Rise (or Dia.)	Type	Ler	ngth	Corr. Profile	Pl./Slab Thickness	Shape		
1	U/S		-	1200	MP	10		68X13	2.0	ROUND		
1	MAIN		 1724	1901	SPE	63.	.4	152X51	2.8	ELLIPSE		
1	D/S		-	2000	MP	22		125X26	2.8	ROUND		
2	MAIN				SSP	102	2			ROUND		
Special Featu				STRUTS		1.0-		-				
Special Features Comment												
					Jtilities (Located at)						
Utility Attachm												
Telephone		West r/w				1 -						
Power	3 lines					Gas						
		s 18m Ea	ıst.			Municipal						
Others		s 18m Ea					//N) No					
Others Remarks		s 18m Ea	ıst.			Municipal Problem (Y	, .					
		s 18m Ea	ıst.			Municipal Problem (Y	ment	At a se				
Remarks	Shaw	s 18m Ea	ıst.	Las	t Now	Municipal Problem (Y	ment on of Condi		arth of cultivart	Passing allowed		
Remarks Horizontal Alig	Shaw	s 18m Ea	ıst.	Las	Now 7	Municipal Problem (Y	ment on of Condi		orth of culvert. F	Passing allowed.		
Remarks Horizontal Aliç Vertical Alignr	Shaw gnment ment	s 18m Ea	ics East r/w.	Las	Now 7	Municipal Problem (Y	ment on of Condi		orth of culvert. F	Passing allowed.		
Remarks Horizontal Alig	Shaw gnment ment	s 18m Ea	ıst.	Las	Now 7	Municipal Problem (Y	ment on of Condi		orth of culvert. F	Passing allowed.		
Remarks Horizontal Aliç Vertical Alignr	Shaw gnment ment	s 18m Ea	ics East r/w.	Las	7 8	Municipal Problem (Y d / Embanki Explanatio Curve to no	ment on of Condi orth comme	nces 200 m No		Passing allowed.		
Remarks Horizontal Alig Vertical Alignr Roadway Wid	gnment ment lth (m)	s 18m Ea	ics East r/w.	Las 7 8	7 8	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi	ment on of Condi orth comme	nces 200 m No	ninor erosion.	Passing allowed.		
Remarks Horizontal Alig Vertical Align Roadway Wid Embankment	gnment ment lth (m)	s 18m Ea	ics East r/w.	Las 7 8	7 8	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi	ment on of Condi orth comme	nces 200 m No	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_	gnment ment lth (m) _:1) cover(m):	s 18m Ea	ics East r/w.	Las 7 8	7 8	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi	ment on of Condi orth comme lleys in E sk ility monitors and settleme	nces 200 m No	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N	gnment ment lth (m):1) cover(m):	s 18m Ea fibre opt	10.600 3.0	Las 7 8 4	1 Now 7 8 4	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi Cracking e	ment on of Condi orth comme lleys in E sk ility monitors and settleme	nces 200 m No	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N	gnment ment lth (m):1) cover(m):	s 18m Ea fibre opt	10.600 3.0	Las 7 8 4	1 Now 7 8 4	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi Cracking e	ment on of Condi orth comme lleys in E sk ility monitors and settleme	nces 200 m No	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N	gnment ment lth (m):1) cover(m):	s 18m Ea fibre opt	10.600 3.0	Las 7 8 4	1 Now 7 8 4 4 7 7	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi Cracking e	ment on of Condi orth comme lleys in E sk ility monitors and settleme	nces 200 m No	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N	gnment ment lth (m) _:1) cover(m):	s 18m Ea fibre opt	10.600 3.0	Las 7 8 4	Now 7 8 4	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stabi Cracking e East side of	ment on of Condi orth comme Illeys in E sk ility monitors and settleme	ope, NE ditch ns installed.	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N	gnment ment lth (m):1) cover(m):	s 18m Ea fibre opt	10.600 3.0 Yes The General Rate of the second se	Las 7 8 4	Now 7 8 4 Upstre	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stab Cracking e East side co	ment on of Condi orth comme Illeys in E sk ility monitors and settleme	ope, NE ditch ns installed.	ninor erosion.	Passing allowed.		
Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N Approach Ro	gnment ment lth (m):1) cover(m):	s 18m Ea fibre opt	10.600 3.0 Yes The General Rate of the second se	Las 7 8 4	Now 7 8 4 Upstre	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stab Cracking e East side co	ment on of Condi orth comme Illeys in E sk ility monitors and settleme	ope, NE ditch ns installed.	ninor erosion.	Passing allowed.		
Remarks Horizontal Align Vertical Align Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N Approach Ro Culvert Comp (Pipe # : 1, S)	gnment ment lith (m) _:1) cover(m): pad / Emi pan Type nt (Concre	s 18m Ea fibre opt	10.600 3.0 Yes Try Span)	Las 7 8 4 ing 7 Las	Now 7 8 4 Upstre	Municipal Problem (Y d / Embanki Explanatio Curve to no Erosion gu Slope stab Cracking e East side co	ment on of Condi orth comme Illeys in E sk ility monitors and settleme	ope, NE ditch ns installed.	ninor erosion.	Passing allowed.		

76427 S-1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End	T	Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	500			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	Piping possible from U/S. Informed AIT28-Apr-2008
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		
(Pipe # : 1, Primary Span, Loca	tion Code: U/S. Snan			Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	13-Jan-2012	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>, , , , , , , , , , , , , , , , , , , </u>	Overflow pipe
Barrer Last Accessible Date	13-3411-2012			Overnow pipe
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		4	4	
Measured Rise (mm)	1100			@ mid length
Measured At Ring No.				
Sag (mm)	100			
Percent Sag	8			
Sidewall		4	4	
Measured Span (mm)	1310			
Measured At Ring No.	.5.0			@ mid length
Deflection (mm)	110			
Percent Deflection	9			
Floor	J	7	7	
		1	1	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No	_	T _	
Circumferential Seams	I	7	7	
Separation (mm)				
Longitudinal Seams	I	X	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)				

Culver Component Last Now Explanation of Condition (Pipe # 1, Primary Span, Location Code: US, Span (mm): Rise (mm): 1200, Type: MP)			Brid	dae Cu	Ivert Barrel
Pipe # : 1, Primary Span, Location Code: U/S, Span (mm):	Culvert Component				
Coarrigin	•	tion Code: U/S, Span			
Corrosion By Soli (Y/N)		· •			
Corrosion By Water (Y/N)		No			
Camber POS/ZERO/NEG					
Ponding (Y/N)					
Baffile					
Baffile	Ponding (Y/N)	No			
Type : Waterway Adequacy	Fish Passage Adequacy		4	4	Higher than S.B
Vaterway Adequacy	Baffle		Х	Х	
Cing (Y/N) No No No No No No No	(Type:)				
Silting (Y/N) No Part (Y/N) No Barrel Extension General Rating A	Waterway Adequacy		5	5	
Drift (Y/N) No Barrel Extension General Rating 4		No			
Drift (Y/N) No Barrel Extension General Rating 4	Silting (Y/N)	No			
Barrel Extension General Rating		No			
Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE) Barrel Last Accessible Date 13-Jan-2012 Special Features Special Feature 4 5 Tremporary struts-modified for broken seam. Tremporary struts-modified for broken seam. (Type:)** 1 4 5 Roof 2 2 Damaged ring at cl-fill infiltrating. Measured Rise (mm) Measured At Ring No. Sag (mm) Est , not measured due to heavy silt deposit. Sag (mm) 2 2 (Ring 8 from D/S end. 16/Aug/2006) Measured At Ring No. 5 C (Ring 8 from D/S end. 16/Aug/2006) Measured At Ring No. 6 C C C Bulge (mm) 0 Foor ice covered. C C Bulge (mm) No No No Floor ice covered. Floor ice covered. Circumferential Seams 3 3 3 3 3 3 3 3 4		ng	4	4	
Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE) Barrel Last Accessible Date 13-Jan-2012 Special Features Special Feature 4 5 Tremporary struts-modified for broken seam. Tremporary struts-modified for broken seam. (Type:)** 1 4 5 Roof 2 2 Damaged ring at cl-fill infiltrating. Measured Rise (mm) Measured At Ring No. Sag (mm) Est , not measured due to heavy silt deposit. Sag (mm) 2 2 (Ring 8 from D/S end. 16/Aug/2006) Measured At Ring No. 5 C (Ring 8 from D/S end. 16/Aug/2006) Measured At Ring No. 6 C C C Bulge (mm) 0 Foor ice covered. C C Bulge (mm) No No No Floor ice covered. Floor ice covered. Circumferential Seams 3 3 3 3 3 3 3 3 4			Brid	dge Cu	lvert Barrel
Special Feature 13-Jan-2012	Culvert Component		1		
Special Feature Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Deflection (mm) Sag(Measured At Ring No. Bulge (mm) Floor N N (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Floor ice covered. Measured At Ring No. Bulge (mm) Circumferential Seams Total No. of Cracked Rings Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Temporary struts-modified for broken seam.	(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	n): 1724	, Rise (mm): 1901, Type: SPE)
Special Feature	Barrel Last Accessible Date	13-Jan-2012			
Type : VERT STEEL STRUTS	Special Features				
Special Feature (Type :) Roof	Special Feature		4	5	Temporary struts-modified for broken seam.
Roof	(Type: VERT STEEL STRUTS)				
Roof 2 2 Damaged ring at cl-fill infiltrating.	Special Feature				
Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall 2 2 2 Measured Span (mm) 2050 Measured At Ring No. Deflection (mm) 326 Percent Deflection 19 Floor N N N Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 3 Separation (mm) 150 Longitudinal Seams 6 6 6 Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit.	(Type:)				
Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) 2050 Measured At Ring No. Deflection (mm) 326 Percent Deflection 19 Floor N N N Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 3 Separation (mm) 150 Longitudinal Seams 6 6 6 Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. Est , not measured due to heavy silt deposit. (Ring 8 from D/S end. 16/Aug/2006) Cl (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Floor ice covered. Floor ice covered. 1N stagger.	Roof		2	2	Damaged ring at cl-fill infiltrating.
Sag (mm) 2 2 (Ring 8 from D/S end. 16/Aug/2006) Measured Span (mm) 2050 (Deflection (mm) 326 (Deflection (mm) 326 (Deflection (mm) 326 (Deflection (mm) 19 (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) (Describility of piping. Local	Measured Rise (mm)				
Sidewall Sid	Measured At Ring No.				Est , not measured due to heavy silt deposit.
Sidewall 2 2 2	Sag (mm)				
Measured Span (mm) 2050 Measured At Ring No. cl Deflection (mm) 326 Percent Deflection 19 Floor N N N (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Bulge (mm) 0 Floor ice covered. Measured At Ring No. Abrasion (Y/N) No Abrasion (Y/N) No Floor ice covered. Circumferential Seams 3 3 Separation (mm) 150 Instance of the covered of t	Percent Sag				
Measured At Ring No. Deflection (mm) 326 Percent Deflection 19 Floor N N N (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No	Sidewall		2	2	(Ring 8 from D/S end. 16/Aug/2006)
Measured At Ring No. 26 Deflection (mm) 326 Percent Deflection 19 Floor N N N (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Bulge (mm) 0 Floor ice covered. Measured At Ring No. No Floor ice covered. Abrasion (Y/N) No No Circumferential Seams 3 3 Separation (mm) 150 Instance of the covered o	Measured Span (mm)	2050			
Deflection (mm) 326 Percent Deflection 19 Floor Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Floor ice covered. Floor ice covered. 1 N stagger.					cl
Percent Deflection 19 Floor N N N (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Bulge (mm) 0 Floor ice covered. Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No		326			
Floor Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) Longitudinal Seams Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No (Possibility of piping. Local sag in D/S 1/3 L. 16/Aug/2006) Floor ice covered. Floor ice covered. Floor ice covered. 1N Stagger.		19			
Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No			N	N	(Possibility of piping, Local sag in D/S 1/3 L, 16/Aug/2006)
Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings O Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No		0			
Abrasion (Y/N) No Circumferential Seams 3 3 Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No					Floor ice covered.
Circumferential Seams Separation (mm) 150 Longitudinal Seams 6 6 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No 3 3 3 IN stagger.		No			
Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No			3	3	
Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No		150			
Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No			6	6	
Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No		0			1
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No		-			
Proper Lap (Y/N) No	Min. Remaining Steel				1N stagger.
		No			
EUTUILUUTIAI JIAUUEI (1/N) 165	Longitudinal Stagger (Y/N)	Yes			

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
	ation Code: MAIN. S			I, Rise (mm): 1901, Type: SPE)
Coating	, 0	4	4	Pitting and scaling along lower 1/3.
Corrosion By Soil (Y/N)	Yes	'		Triang and coaming along lower 170.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Camber 1 00/2ERO/NEO	INEO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Inlet higher than S.B.
Baffle		X	Х	
(Type:)				
Waterway Adequacy		3	5	Overflow
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	2	
				Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loc		an (mm):	,	Rise (mm): 2000, Type: MP)
Barrel Last Accessible Date	13-Jan-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	6	Ice on floor sag est.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			
Percent Sag	5			
Sidewall		N	6	
Measured Span (mm)	2100			1
Measured At Ring No.				
Deflection (mm)	100			
Percent Deflection	5			
Floor	, *	N	N	Ice covered.
Bulge (mm)				- 100 00101001
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	
Separation (mm)		14	,	
Longitudinal Seams		X	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)				
Longitudinal Stagger (Y/N)				

76427 S-1 Bridge Culvert

		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	ion Code: D/S, Span	(mm):	, F	Rise (mm): 2000, Type: MP)
Coating		7	7	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	g	N	6	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			 Instre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	_450		
Direction	y • p)	Е		South pipe
End Treatment (Concrete, Steel,	NONE			,
Others, None)				
Headwall		Х	X	
Collar		X	X	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		3	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		3	5	
Beavers (Y/N)	No			
Upstream End General Rating		3	5	
		D ric	dao Cu	llvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN S			, Rise (mm): 1800, Type: SSP)
Barrel Last Accessible Date	13-Jan-2012	Jen (.	,.	Accessed u/s half only. Ice to 100mm from crown @ d/s.
	10 0411 2012			7.0003500 d/3 flatt offly. fee to foothlift from Grown @ d/3.
Special Features		1		
Special Feature				Water 100mm from crown @ d/s.
(Type:)				_
Special Feature				
(Type:)		1		
Roof		7	7	Ice on floor - shape looks good.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	7	
Measured Span (mm)	1820			@ cl
Measured At Ring No.				
Deflection (mm)				
Percent Deflection			,	
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	Welds
Separation (mm)				
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

76427 S-1 Bridge Culvert

		Bric	lge Cu	lvert Barrel
		Last Now		Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Sp		Span (n	nm):	, Rise (mm): 1800, Type: SSP)
Coating		7	7	weathering steel
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG ZERO				
Ponding (Y/N) No				
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
_				
				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			l
Direction	1	W		Ice too 100 below crown.
End Treatment (Concrete, Steel, Others, None)	NONE		1	
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		5	N	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	GR carried fwd from 04-Jul-2011
		S	tructu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		4	4	Enters u/s end @ 45 degrees
Bank Stability		6	4	4mx4mx1.5m high scour on SE bank.
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	Yes			
. ,	4			

			Structu	re Usage
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		4	4	

Alberta Transportation

				Maintenance Recommendations	pmmendati	ions					
Inspector Recommendations	Year		Inspector Comments	omments		Department Comments	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF)FF										
REPAIR SEAMS											
OTHER ACTION	2012		Advise of MC1 of roa surface.	IC1 of road settlement and monitor	monitor						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		22.2/22.2		Sufficiency Rating (Last/Now) (%)		22.4/30.6	Est. Repl. Yr	2050	Maint. Reqd. (Y/N)		Yes
Special Monitor deflection annually. Comments for LRA sent July 6, 2011. Next Inspection	nnually. 11.					Department Comments					
Maintenance Reviewed By						Date		ŭ	Estimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Wade Nanninga	ninga		۵	revious As:	Previous Assistant's Name					
Next Inspection Date	13-Oct-2013	3		ď	revious Ins	Previous Inspection Date	04-Jul-2011				
Inspection Cycle (Default) (months)	21										
Comment											

			Maintenance Rec	ommend	ations						
Inspector Recommendations	,	Year	Inspector Comments		Department Co	omment	6		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LININ	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CU	TOFF										
REPAIR SEAMS											
OTHER ACTION	2	2012	Advise of MC1 of road settlement an surface.	d monitor							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) 22.2/22.2 Sufficiency Rating (Last/Now) (%)			low) 2	22.4/30.6	Est.	Repl. Yr	2050	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection Comments for LRA sent July 6, 2	annually. 011.				Department (Comments	(May 30	/12) Replace	ement Sc	hed Yr 2013		
Maintenance Reviewed By					Date			l	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Wade N	Nanninga	a I	Previous	Assistant's Name	ie					
Next Inspection Date	13-Oct-	2013	ı	Previous I	Inspection Date	C	4-Jul-2011				
Inspection Cycle (Default) (months)	21										
Comment											