81980 -1 Bridge Culvert

					Bride	ie Culve	ert Insn	ection						
Bridge File Nui	mher	81980 -	81980 -1 Bridge Culvert				Form Type			CULM				
Year Built	TIDEI	1993	1 bridge od	iiveit			Lot No	,	4					
Bridge or Town	Name		/IIIRRAY				+	tor Name	Wade Nannin					
Located Over	TTTAITIC	MUNICI						tor Class	BR CLS B					
Located On			1 32.711				Assistant Name		BIX OLO B	DR CL3 B				
Water Body CI	Vear	00.12 L	1 02.7 11				Assistant Class							
Navigabil. Cl./Year						Inspection Date		08-Mar-2010	09 Mar 2010					
Legal Land Location SW SEC 6 TWP 93 RGE 10 W4				4N				Theresa Lacusta						
			-1 1V1											
Longitude, Latitude -111:36:28, 57:02:19 Road Authority Alberta Transportation (AIT)					Reviewer Name		07-Apr-2010 Arnold Assenheimer							
Contract Main.		CMA07	Παποροπαι	.1011 (A11)			Reviewer Name Review Date		29-Mar-2010	Heimei				
Clear Roadway		25 /					Dept. Reviewer Name							
AADT/Year	y/Skew		/ 2008 (A)				· ·	Review Date	12-Apr-2010					
Road Classific	ation	RAU-21					· ·	-Up By	12-Apr-2010					
Detour Length		5	3.4-120				Follow	-ор Бу						
Bridge Culver	` '													
Number of Cul			2											
Pipe #	Barrel		r Dia.)	Туре	Length		Corr. Profile	Pl./Slab Thickness	Shape					
1	MAIN		14000	14000	14000 CPA		62			111101111000	ARCH			
2	MAIN		14000	14000		CPA		62			ARCH			
Special Featur			11000	1 1000		JOI 7	UZ				711(011			
Special Featur		ment												
					Po	sting l	nformat	ion						
Required Vert.	Clearar	nce Posti	ng (m) l	UNDER: ML	JNICIP	AL 2.9m	1							
Posted Vertica	l Cleara	nce (Y/N) (No										
Posted: Lane	EB	On E	Bridge (m)	In Ad	lvance	(Y/N)	No L	ane WB (On Bridge (m)	In Adva	nce (Y/N) No			
Remarks	Not re	equired. N	Not for publi	c access.										
					Ut	ilities (L	Located	at)						
Utility Attachm	ents													
Telephone							Gas							
Power							Municipal							
Others							Proble	m (Y/N)						
Remarks														
				Α			1	ankment						
					Last		Explai							
Horizontal Alig					7	7		inspect prior to 790-5919).	contacting Syr	ncrude Security	(Tim Gray			
Vertical Alignm	ent				9	9		adual curve.						
								North of 81232	orates MSE reta	ining wall				
Roadway Widt	Roadway Width (m) 13.600					Lilibai	ikineni encorpe	nates MOL Teta	ming wan.					
Embankment					8	8								
	.1)		3.0		0	0								
Sideslope (.)	3.0											
(Height of Co		-)	Voc											
Guardrail (Y/N)			Yes											
Approach Roa	ad / Emi	bankmer	nt General I	Rating	7	7								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Second	lary Span)			
Direction		W		South barrel
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Minor vertical cracks on headwall.
Collar		Х	Х	
Wingwalls		8	8	MSE wall.
(Shape : RIGHT ANGLE)		1	1	
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)			1	
Scour Protection		X	7	
(Type : CONCRETE)				
(Avg. Rock Size (mm):)			1	
Scour/Erosion		X	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 1	4000, Rise (mm): 14000, Type: CPA)
Barrel Last Accessible Date	17-Jul-2008			Permission from Syncrude required. Pipe not in use currently/partially filled in.
				Mud/water in pipe-too deep to access. Viewed from ends-looks good.
Special Features				
Special Feature				
(Type:)		<u> </u>	-	
Special Feature				
(Type:)				
Roof		8	7	
Measured Rise (mm)			'	-
Measured At Ring No.				
Sag (mm)	0			-
Percent Sag				
Sidewall		8	7	
Measured Span (mm)		0		
Measured At Ring No.				_
Deflection (mm)	0			-
Percent Deflection	0			-
		N.I.	N.I.	Covered by fill
Floor	0	N	N	Covered by fill.
Bulge (mm)	0			
Measured At Ring No.	Na			
Abrasion (Y/N)	No	_		
Circumferential Seams Separation (mm)		8	7	
L'amount au (mans)	0			

		Brid	dge Cu	ulvert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe #: 1, Secondary Span, Lo	cation Code: MAIN, S	pan (r	nm): 14	4000, Rise (mm): 14000, Type: CPA)			
Longitudinal Seams		8	7	At roof.			
Total No. of Cracked Rings	0						
Total No. of Rings with Two Cracked Seams							
Min. Remaining Steel Between Cracks (mm)							
Proper Lap (Y/N)							
Longitudinal Stagger (Y/N)							
Coating		8	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		Х	Х				
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		Х	X				
Icing (Y/N)	No						
	No						
Silting (Y/N) No Drift (Y/N) No Barrel General Rating			7				
		D	ownstr	ream End			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Span Type: Second	Jary Span)						
Direction		E		South barrel.			
End Treatment (Concrete, Steel, Others, None)	CONCRETE						
Headwall		7	7	Narrow vertical cracks on headwall.			
Collar		Х	Х				
Wingwalls		8	8	MSE wall.			
(Shape : RIGHT ANGLE)							
Cutoff Wall		Х	X				
Bevel End		Х	Х				
Heaving (mm)							
Invert Above/Below Stream Bed							
Above/Below (mm)							
Scour Protection		Х	7				
(Type : CONCRETE)							
(Avg. Rock Size (mm):)							
Scour/Erosion		Х	7				
Beavers (Y/N)	No						
Downstream End General Ratio	ng	7	7				

81980 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	/ Span)			
(Pipe # : 2, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape : RIGHT ANGLE) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type : CONCRETE) (Avg. Rock Size (mm) :) Scour/Erosion Beavers (Y/N) Upstream End General Rating Culvert Component		W		North barrel.
Concrete Concrete				
Headwall		7	7	Minor vertical cracks in headwall.
Collar		Х	Х	
Wingwalls		8	8	
Bevel End		Х	Х	
Bevel End		Х	Х	
Above/Below (mm)	0			
		Х	7	
(Type : CONCRETE)				
, ,,				
		Х	7	
	No			
Upstream End General Rating		7	7	
		D.:	I C	bood Daniel
				Ivert Barrel
-		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Local		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA)
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date Special Features		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :)		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :)		Last	Now	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof		Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm)		Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No.	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)	17-Jul-2008	Last n (mm	Now): 1400	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection	17-Jul-2008	8	Now): 1400 7	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use. Viewed from ends.
(Pipe # : 2, Primary Span, Locat Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor	17-Jul-2008	8	Now): 1400 7	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use. Viewed from ends.
(Pipe # : 2, Primary Span, Local Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	17-Jul-2008	8	Now): 1400 7	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use. Viewed from ends.
Wingwalls (Shape: RIGHT ANGLE) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type: CONCRETE) (Avg. Rock Size (mm):) Scout/Erosion Beavers (Y/N) No Upstream End General Rating Culvert Component (Pipe #: 2, Primary Span, Location Code: MAIN, Sp Barrel Last Accessible Date 17-Jul-2008 Special Features Special Feature (Type:) Special Feature (Type:) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) O Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Delge (mm) Measured At Ring No. Delge (mm) Measured At Ring No.		8	Now): 1400 7	Explanation of Condition 0, Rise (mm): 14000, Type: CPA) North barrel. Partially filled in, not in use. Viewed from ends.

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1400	0, Rise (mm): 14000, Type: CPA)
Longitudinal Seams		8	8	At roof.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
(Pipe # : 2, Primary Span, Location Code: MAIN, S Longitudinal Seams Total No. of Cracked Rings O Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating Corrosion By Soil (Y/N) Corrosion By Water (Y/N) No Camber POS/ZERO/NEG Ponding (Y/N) No Fish Passage Adequacy Baffle (Type :) Waterway Adequacy Icing (Y/N) No Silting (Y/N) No Barrel General Rating Culvert Component (Pipe # : 2, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, CONCRETE Others, None) Headwall Collar Wingwalls (Shape : RIGHT ANGLE) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		8	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		Х	Х	
Baffle		Х	Х	
	I	Х	X	
	No			
Silting (Y/N) No			7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
	Span)	'		
Direction	•	E		North barrel.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Minor vertical cracks in headwall.
Collar		Х	Х	
Wingwalls		8	8	
(Shape : RIGHT ANGLE)				
Cutoff Wall		X	X	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		Х	7	
(Type : CONCRETE)				
(Avg. Rock Size (mm):)				
Scour/Erosion		Х	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	

	Structure Usage									
		Last Now								
Grade Separation			_							
Road Alignment		7	7							
Roadway Surface		N	N	Partially filled with dirt.						
(Type:)										
Icing (Y/N)	No									
Traffic Safety Features	Traffic Safety Features		5							
Туре			_							
Lighting		4	5	Lights not currently on or not working.						
Barrel Leakage (Y/N) No										
Drainage		8	6							
Structure In Use (Y/N) No										
Grade Separation General Rating		7	5							

		Maintenance R	ecommend	lations					
Inspector Recommendations	Year	Inspector Comments		Department Comn	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS				·					
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									\perp
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 88.9/77	7.8 Sufficiency Rating (Last/Now) (%)		85.4/77.9	Est. Repl. Yr	2052 Maint. Re		qd. (Y/N)	No
Special Do not inspect barron Next Inspection	el prior to contac	ting Ayncrude Security (780-790-591	9)	Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Jason Saly		Previous	Assistant's Name					
Next Inspection Date	08-Dec-2011		Previous	Inspection Date	17-Jul-2008				
Inspection Cycle (Default) (months)	21								
Comment									