					3ridg	je Culve	ert Inspe			Q				
Bridge File Nu	mber		E-1 Bridge Culv	ert			Form Ty							
Year Built		1990					Lot No.			4				
Bridge or Town	n Name						Inspector Name		Todd Warshawski					
Located Over			NCE CREEK, 8 RCRS-ST	3.11.107.30	1.107.30,			Inspector Class Assistant Name		BR CLS B				
Located On		16:04 F	R1 45.839				Assistant Class							
Water Body Cl./Year							Inspection Date		09-Aug-2012					
Navigabil. Cl./	<b>Year</b>						Data Entry By			Theresa Lacusta				
Legal Land Lo	cation	NE SE	C 7 TWP 53 RG	E 18 W5M	1			try Date		22-Aug-2012				
Longitude, Lat	itude	-116:38	3:08, 53:34:02				Reviewer Name			Eric Carcoux				
Road Authority Alberta Transportation (AIT)							Review Date			21-Aug-2012				
Contract Main.	Area	CMA13	<b>.</b>				Dept. Reviewer Name			_				
Clear Roadwa	y/Skew	12.7 / 6	deg. (RHF)				Dept. Review Date			30-Aug-2012				
AADT/Year		6,080 /	2011 (A)				Follow-l		110	00 / tag 2012				
Road Classific	ation	RAD-4	12.4-120					JP 2,						
Detour Length	(km)	1												
Bridge Culver	t Inform	ation												
Number of Cul	verts		2											
Pipe #	Barrel		Span	Rise (or D	oia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		-	3990		SP		55.2		152X51	3.0	ROUND		
2	MAIN		-	3990		SP		55.2		152X51	3.0	ROUND		
Special Featur	es					<u>'</u>								
Special Featur	es Comi	ment												
					Ut	ilities (L	Located a	at)						
Utility Attachm														
Telephone	North				Gas									
Power	5 wire	s O/H 1	00m East.		Municip									
Others							Problem	n (Y/N)	No					
Remarks	File ta	ig in plad	ceNE headwal											
							d / Emba		0!!	· · · · ·				
Harizantal Alia	nmant			L	Last		Explana				and sight distant			
Horizontal Alig					7	7	Superei	evated. (	Jradua	al curve with go	ood signt distar	ice.		
Vertical Alignm			12.700		7	7								
Roadway Widt	ri (m)		12.700											
Embankment					7	7								
Sideslope (_			3.0											
(Height of Co		3.5)												
Guardrail (Y/N	)		Yes				Guardrails both sides.							
Approach Ro	ad / Eml	bankme	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Comp	onent				Last	Now		ation of	Condi	tion				
(Pipe # : <b>1, Sp</b>		e: Prima	ary Span)											
Direction				I	N		East pipe.							
	t (Concre	ete, Stee	el, CONCRETE				] ''							
Headwall					8	8								
Collar					7	7	Several narrow cracks.							
Wingwalls					X	X								
(Shape :	)													

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed BELOW				
Above/Below (mm)	1100			
Scour Protection		6	6	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Bri	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): 3990, Type: SP)
Barrel Last Accessible Date	08-Mar-2007			East pipe. Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(Measured just above springline to East. 2001/12/05) (Est 8%.
Measured Rise (mm)				2001/12/05)
Measured At Ring No.				
Sag (mm)	30			
Percent Sag				
Sidewall	I	N	N	
Measured Span (mm)	4030			
Measured At Ring No.	7			
Deflection (mm)	40			
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams	1	N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				2N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

81211 E-1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	n):	, Rise (mm): 3990, Type: SP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "8" from 08/Mar/2007.
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction	T	S		East pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Several narrow cracks.
Collar		7	7	Several narrow cracks.
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Several narrow cracks.
Collar			7	Several narrow cracks.
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		N	N	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Span Type: Second	ary Span)			
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000		_	
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Dric	dao Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN			, Rise (mm): 3990, Type: SP)
Barrel Last Accessible Date	08-Mar-2007	, opan (i	,.	West pipe.
Barrer Last Accessible Bate	00 Mai 2007			Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)				(Estimate @ R9. 08/Mar/2007)
Measured At Ring No.	9			
Sag (mm)	30			
Percent Sag	8			
Sidewall		N	N	
Measured Span (mm)	4055			(1.6%. 08/Mar/2007)
Measured At Ring No.	7			(1.0761.037.11181.72007)
Deflection (mm)	65			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				2N stagger.
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

81211 E-1 Bridge Culvert

		Brio	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	}pan (r	nm):	, Rise (mm): 3990, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "7" from 08/Mar/2007.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	_		
Direction		S		West pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Several wide cracks.
Collar		7	7	Several narrow cracks.
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				re Usage
		Last	Now	Explanation of Condition
•				
-		8	8	
-		7	8	
HWM (m below Top of Culvert)				HWM not visible.
Degrading/Aggrading				
Fish Passage Adequacy  Baffle (Type:)  Waterway Adequacy Icing (Y/N) No Silting (Y/N) No Drift (Y/N) No  Barrel General Rating  Culvert Component (Pipe #: 2, Span Type: Secondary Span) Direction End Treatment (Concrete, Steel, CONCRETE Others, None) Headwall  Collar  Wingwalls (Shape: ) Cutoff Wall  Bevel End Heaving (mm) 0 Invert Above/Below Stream Bed BELOW Above/Below (mm) 1000  Scour Protection (Type: RIP RAP) (Avg. Rock Size(mm): 500) Scour/Erosion  Beavers (Y/N) No  Downstream End General Rating  Channel (U/S and D/S) Alignment  Bank Stability  HWM (m below Top of Culvert) Drift (Y/N) No  Channel Bottom				
·				
	NUNE)			
Channel General Rating		8	8	

HOTCRETE REPAIRS LACE ADDITIONAL RIP RAP LACE ADDITIONAL RIP RAP LACE ADDITIONAL RIP RAP LEMOYE PRIFT ACCUMULATION SISTALL CONCRETE/STEEL LINING SISTALL CONCRETE/STEEL LINING SISTALL CONCRETE COLLAR/CUTOFF SISTALL CON						Mainte	nance Recommen	dations					
PLACE ADDITIONAL RIP RAP  LEMOVE DRIFT ACCUMULATION  INSTALL CONCRETE/STEEL LINING  INSTALL STRUTS  INSTALL CONCRETE COLLAR/CUTOFF  INSTALL CONCRETE COLLAR/CU	Inspector Recomi	mendations	\	Year Inspector Comments				Department Con	nments		Target Yea	r Est. Cost	Cat #
REMOVE DRIFT ACCUMULATION  NSTALL CONCRETE/STEEL LINING  NSTALL STRUTS  NSTALL CONCRETE COLLAR/CUTOFF  REPAIR SEAMS  DITHER ACTION  DITHER ACTION  STHER ACTION  STHER ACTION  STHER ACTION  STRUCTURE ACTION  STRUCTURE ACTION  STRUCTURE ACTION  As this structure has not been accessed for 2 or more cycles, a Level 2 inspection is required as per Birm Manual Section 13.9.1.5 Based on observed site evaluations we are recommending that his be deferred to a later date.  Maintenance Reviewed By  Date  Estimated Total 0  Previous Inspector's Name  Todd Warshawski  Previous Inspection Date  09-May-2014  Previous Inspection Date  09-May-2014  Previous Inspection Date  27-Sep-2010  Previous Inspection Date  18 P	SHOTCRETE RE	PAIRS											
NSTALL CONCRETE/STEEL LINING NSTALL CONCRETE COLLAR/CUTOFF SEPAIR SEAMS STHER ACTION OTHER ACTIO	PLACE ADDITIO	NAL RIP RAP											
NSTALL STRUTS  NSTALL CONCRETE COLLAR/CUTOFF  STRUEPAIR SEAMS  STHER ACTION  STHER ACTION  STHER ACTION  STHER ACTION  STRUCTURE ACTION  S	REMOVE DRIFT	ACCUMULATION											
NSTALL CONCRETE COLLAR/CUTOFF  IEPAIR SEAMS  OTHER ACTION	INSTALL CONCE	RETE/STEEL LINING	i										
EPAIR SEAMS OTHER ACTION  As this structure has not been accessed for 2 or more cycles, a Level 2 inspection level inspection we are recommending that his be deferred to a later date.  OTHER ACTION  Department Comments  Department Comments  OTHER ACTION  The comments for level inspection we are recommending that his be deferred to a later date.  OTHER ACTION  The comments for level inspection OTHER ACTION  Department Comments  Department Comments  OTHER ACTION  Department Comments  Department Comments  OTHER ACTION													
OTHER ACTION  Structural Condition Rating (Last/Now) (%)  S5.6/55.6  Sufficiency Rating (Last/Now) (%) OTHER ACTION  Figure 1  Sufficiency Rating (Last/Now) (%) OTHER ACTION  OTHER ACTION	INSTALL CONCE	RETE COLLAR/CUTO	OFF										
DTHER ACTION DTHER	REPAIR SEAMS												
OTHER ACTION  OT	OTHER ACTION												
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) (%) 67.8/67.7 Est. Repl. Yr 2048 Maint. Reqd. (Y/N) No special comments for lext Inspection lext Inspection Rating (Last/Now) is required as per Bim Manual Section 13.9.1.5 Based on observed site evaluations we are recommending that his be deferred to a later date.  Date Estimated Total O  Estimated Total O  Proposed Long-Term Strategy  Proposed Action  Previous Inspector's Name Todd Warshawski Previous Assistant's Name  Jext Inspection Date 09-May-2014 Previous Inspection Date 27-Sep-2010	OTHER ACTION												
As this structure has not been accessed for 2 or more cycles, a Level 2 inspection level Inspection  As this structure has not been accessed for 2 or more cycles, a Level 2 inspection required as per Bim Manual Section 13.9.1.5  Based on observed site evaluations we are recommending that his be deferred to a later date.  Date  Estimated Total 0  Estimated Total 0  Estimated Total 0  Previous Inspector's Name  Todd Warshawski  Previous Inspection Date  09-May-2014  Previous Inspection Date  09-May-2014  Previous Inspection Date  09-May-2014  Previous Inspection Date  09-May-2014  Previous Inspection Date  27-Sep-2010	OTHER ACTION												
As this structure has not been accessed for 2 or more cycles, a Level 2 inspection for lext Inspection we are recommending that his be deferred to a later date.  As this structure has not been accessed for 2 or more cycles, a Level 2 inspection required as per Bim Manual Section 13.9.1.5 Based on observed site evaluations we are recommending that his be deferred to a later date.  As this structure has not been accessed for 2 or more cycles, a Level 2 inspection we are recomments for required as per Bim Manual Section 13.9.1.5 Based on observed site evaluations we are recomments for required as per Bim Manual Section 13.9.1.5 Based on observed site evaluations we are recommending that his be deferred to a later date.  Date  Estimated Total 0  Proposed Long-Term Strategy  Proposed Action  Previous Inspector's Name  Todd Warshawski  Previous Assistant's Name  lext Inspection Date  09-May-2014  Previous Inspection Date  27-Sep-2010	OTHER ACTION												
is required as per Bim Manual Section 13.9.1.5 Based on observed site evaluations we are recommending that his be deferred to a later date.  Maintenance Reviewed By Proposed Long-Term Strategy  On 3-Year Program (Y/N) Proposed Action  Previous Inspector's Name John Manual Section 13.9.1.5 Based on observed site evaluations we are recommending that his be deferred to a later date.  Date  Estimated Total 0  Previous Assistant's Name  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  On 3-Year Program (Y/N)  Previous Inspection Date  On 3-Year Program (Y/N)  On 3-Year Program (	Structural Condition Rating (Last/Now) (%)			55.6/55.6	5.6 Sufficiency Ration (%)		ng (Last/Now)	67.8/67.7	Est. Repl. Yr	2048	Maint. F	Reqd. (Y/N)	No
Proposed Long-Term Strategy  On 3-Year Program (Y/N)  Proposed Action  Previous Inspector's Name  Jext Inspection Date  On 9-May-2014  Previous Inspection Date  On 9-May-2014  On 9-May-2014  Previous Inspection Date  On 9-May-2014  On 9	Comments for Next Inspection   is required as per Bim Manual Section 13.9.1.5 Based on observed site evaluations							Department Comments					
Proposed Long-Term Strategy  On 3-Year Program (Y/N)  Proposed Action  Previous Inspector's Name  Jext Inspection Date  On 9-May-2014  Despection Cycle (Default) (months)  Despection Cycle (Default) (months)	Maintenance Rev	riewed By						Date		E	Estimated To	tal 0	
Previous Inspector's Name  Todd Warshawski  Previous Assistant's Name  Next Inspection Date  Despection Cycle (Default) (months)  Previous Inspection Date  Previous Inspection Date  27-Sep-2010		•										'	
Previous Inspector's Name  Todd Warshawski  Previous Assistant's Name  Next Inspection Date  O9-May-2014  Previous Inspection Date  27-Sep-2010  Previous Inspection Date  21	On 3-Year Progra	am (Y/N)											
Next Inspection Date 09-May-2014 Previous Inspection Date 27-Sep-2010 Previous Inspection Date 27-Sep-2010	Proposed Action												
nspection Cycle (Default) (months) 21	Previous Inspector's Name Todd		Todd Wa	Fodd Warshawski Previous			Assistant's Name						
nspection Cycle (Default) (months) 21	Next Inspection Date 09-Ma		09-May-	99-May-2014 Previous				us Inspection Date 27-Sep-2010					
	•							•	,				
	Comment	, , , , , , , , , , , , , , , , , , , ,											