80436 -1 Bridge Culvert

Single of Town Name						Bridg	e Culve	rt Inspe	ection					
Bridge or Town Name	Bridge File Nun	nber	80436 -	-1 Bridge Culve	rt			Form T	уре	CULM				
Cocated Over	Year Built 1985									4				
Mater Boy CL/Vear Assistant Name Assistant Class Assistant	Bridge or Town Name GRASSY LAKE							Inspector Name		Tom Carey				
Mater Body CL/Vear	Located Over		TID - IR	RRIGATION C,	WATERC	RS-IC		Inspector Class		BR CLS A				
Inspection Date 12-Nov-2011	Located On		3:12 C1	1 29.049				Assistant Name						
Legal Land Location Ne SEC 17 TWP 10 RGE 13 W4M Data Entry Data O'7-Dec 2011	Water Body Cl.	/Year						Assistant Class						
Approach Road Authority	Navigabil. Cl./Y	ear						Inspection Date		12-Nov-2011				
Alberta Transportation (AIT)	Legal Land Loc	ation	NE SEC	C 17 TWP 10 R	GE 13 W	4M		Data E	Data Entry By Alyssa Boynton					
Contract Main. Area	Longitude, Latit	ude	-111:43	3:54, 49:49:26				Data Entry Date 07-Dec-2011						
Dept. Reviewer Name	Road Authority Alberta Transportation (AIT)						Review	Reviewer Name Garry Roberts						
AADT/Year 3,650 / 2010 (A) Dept. Review Date 12-Jan-2012							Review	Date	21-Nov-2011					
Pollow-Up By Pollow-Up By By Pollow-Up By	Clear Roadway	/Skew	13 /					Dept. R	Reviewer Name	Tim Davies				
Detour Length (km) 5	AADT/Year		3,650 /	2010 (A)				Dept. R	Review Date	12-Jan-2012				
String Culvert Information Sumber of Culverts 2	Road Classifica	ition	RAU-21	13-130				Follow-	Up Ву					
Number of Culverts 2	Detour Length ((km)	5											
Pipe # Barrel	Bridge Culvert	Inform	ation											
MAIN	Number of Culv	erts		2										
Main -	Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile		Shape		
Special Features Special Features Comment Utilities (Located at)	1	MAIN		-	1800		MP		85.1	125X26	2.8	ROUND		
Utility Attachments	2	MAIN		-	1800		MP		85.1	125X26	2.8	ROUND		
Utilities (Located at) Utility Attachments Telephone North ditch Chers Fibre optics @ South R/W. Remarks Approach Road / Embankment Last Now Explanation of Condition Horizontal Alignment	Special Feature	es												
Difficity Attachments	Special Feature	es Comr	ment											
Difficity Attachments														
College	Liche Aug I					Uti	llities (L	ocated	at)					
Power Problem (Problem (Proble			111					0						
Problem (Y/N) No Problem (Y/N) No		North	ditch	<u>.cn</u>										
Approach Road / Embankment Last Now Explanation of Condition Culverts also continue to run under the tracks at North Vertical Alignment Roadway Width (m) 13.000 Embankment 8 8 8 Sideslope (_:1) 4.0 (Height of Cover(m): 1) Guardrail (Y/N) No Approach Road / Embankment General Rating 8 8 Upstream End Culvert Component Last Now Explanation of Condition (Pipe #: 1, Span Type: Primary Span) Direction S Turnout 15m south goes west. East culvert - south end. East culvert - south end. Collar X X X Wingwalls X X X		F.,		. O I. D.A.V.										
Approach Road / Embankment Last Now Explanation of Condition	·							Probler	n (Y/N) NO					
Last Now Explanation of Condition	Remarks				Δ.		h Daar	l / Embe	na kun a urt					
Horizontal Alignment Vertical Alignment Vertical Alignment Roadway Width (m) 13.000 Embankment Sideslope (_:1) (Height of Cover(m): 1) Guardrail (Y/N) Approach Road / Embankment General Rating Upstream End Culvert Component Last Now Explanation of Condition (Pipe #: 1, Span Type: Primary Span) Direction Sound Treatment (Concrete, Steel, NONE Others, None) Headwall X X Wingwalls X X Wingwalls					A	_				tion				
Vertical Alignment	Horizontal Align	ment									e tracks at No	rth		
Roadway Width (m) 13.000 Embankment Sideslope (_:1) 4.0 (Height of Cover(m) : 1) Guardrail (Y/N) No Approach Road / Embankment General Rating Upstream End Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall X X Wingwalls 4:1 at road. Flat over pipes. 4:1 at road. Flat over pipes. Flat over pipes. Trunout 15m south goes west. East culvert - south end.						-		Jarvon	o aloo continuo	to rain anaon ti	io tracko at 1401			
Embankment Sideslope (_:1)				13 000										
Sideslope (_:1)	Troddinay Trida	. ()		10.000			_							
Culvert Component Last Now Explanation of Condition	Embankment					8	8							
Guardrail (Y/N) Approach Road / Embankment General Rating Upstream End Culvert Component Last Now Explanation of Condition (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, NONE Others, None) Headwall X X Wingwalls X X Wingwalls	Sideslope (:1)		4.0				Flat ove	er pipes.					
Approach Road / Embankment General Rating Upstream End Culvert Component Last Now Explanation of Condition (Pipe # : 1, Span Type: Primary Span) Direction S Turnout 15m south goes west. End Treatment (Concrete, Steel, NONE Others, None) Headwall X X Collar X X Wingwalls X X	(Height of Co	ver(m) :	1)											
Upstream End Culvert Component Last Now Explanation of Condition (Pipe # : 1, Span Type: Primary Span) Direction S Turnout 15m south goes west. End Treatment (Concrete, Steel, NONE Dithers, None) Headwall X X Collar X X Wingwalls X X	Guardrail (Y/N)			No										
Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar X X Wingwalls Last Now Explanation of Condition	Approach Roa	d / Emb	bankme	nt General Rat	ing	8	8							
Culvert Component (Pipe # : 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar X X Wingwalls Last Now Explanation of Condition							Unstre	am End						
Pipe # : 1, Span Type: Primary Span) Direction S Turnout 15m south goes west. East culvert - south end. Headwall X X Wingwalls X X	Culvert Compo	onent						1		tion				
Direction S Turnout 15m south goes west. End Treatment (Concrete, Steel, Others, None) NONE Headwall X X Collar X X Wingwalls X X			e: Prima	arv Span)										
End Treatment (Concrete, Steel, Others, None) Headwall Collar X X Wingwalls East culvert - south end. East culvert - south end. X X X	Direction	,,		. ,		S		Turnou	t 15m south and	es west.				
Headwall X X Collar X X Wingwalls X X	End Treatment (Concrete, Steel, NONE					East cu	llvert - south en	d.						
Wingwalls X X	Headwall					Х	Х							
	Collar					Х	X							
(Shape:)	Wingwalls					Х	X							
	(Shape:)													

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			Upstre	eam End
Culvert Component		Last		
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		Х	Х	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	100			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	14-Feb-2001		•	Canal running, unable to enter viewed from both ends- Average 1.0m water.Shape good
Special Features				
Special Feature				East pipe
(Type:)			_	
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)	1790			
Measured At Ring No.	4			
Sag (mm)	10			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)	1810			
Measured At Ring No.	4			
Deflection (mm)	20			
Percent Deflection			1	
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No		1	
Circumferential Seams		N	N	
Separation (mm)	30			
Longitudinal Seams		N	N	@ SP.
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)	No			
Coating		N	N	(Minor superficial corrosion) 2001/02/14
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1800, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
	1	D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1		
Direction	I	N		East culvert - north end.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)		1	1	
Cutoff Wall		Х	X	
Bevel End	I	X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	200		1	
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion	I	8	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		West culvert - south end.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100		_	
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)			_	
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı	mm):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	14-Feb-2001			Canal running, unable to enter Viewed from both ends Average 1.0 m deep water Shape good
Special Features				
Special Feature				West Culvert
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)	1790			
Measured At Ring No.	3			
Sag (mm)	10			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)	1810			
Measured At Ring No.	3			
Deflection (mm)	20			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	30			
Longitudinal Seams		N	N	@ SP.
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)	No			
Coating		N	N	Minor superficial corrosion
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

		Bric	dge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1800, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
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	
				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			l
Direction	1	N		West culvert - north end.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
			tructu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		8	8	
HWM (m below Top of Culvert)	0.5			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	·			

Structure Usage								
Last Now Explanation of Condition								
Channel General Rating	9	9						

			Mainte	nance Recomm	endations					
Inspector Recommendations	Year	Inspector	r Comments		Department Com	nments		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										\bot
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 55.6/55	5.6	Sufficiency Ratir (%)	ng (Last/Now)	70.0/70.0	Est. Repl. Yr	2034	Maint. Re	eqd. (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	Tom Carey			Previo	us Assistant's Name					
Next Inspection Date	12-Aug-2013			Previo	us Inspection Date	25-Jun-2010				
Inspection Cycle (Default) (months)	21									
Comment										