				Brida	e Culve	ert Insp	ection					
Bridge File Number	73430 -1 Bridge Culvert					Form T			CUL1			
Year Built	1961					Lot No			1			
Bridge or Town Name	MEANDE	RRIVE				Inspector Name			Brian Pientsch			
Located Over	SLAVEY	CREEK, 9.10	, WATER	CRS-S	ST	· · ·			BR CLS A			
Located On	35:18 C1		-			Assistant Name			Clem Guenette			
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date			10-Jan-2012			
Legal Land Location	SE SEC 3	32 TWP 117 F	RGE 21 V	V5M		Data Entry By			Theresa Lacu	sta		
Longitude, Latitude	-117:31:5	4, 59:11:59				Data E	ntry Date		28-Feb-2012			
Road Authority	Alberta T	ransportation	(AIT)			Reviewer Name			Eric Carcoux			
Contract Main. Area	CMA01					Review Date			26-Feb-2012			
Clear Roadway/Skew	9.4 / 30 d	eg. (RHF)				Dept. Reviewer Name			David Morriso	n		
AADT/Year	370 / 201	1 (A)				Dept. F			30-Mar-2012			
Road Classification	RAU-209	-110			Follow-Up By							
Detour Length (km)	999											
Bridge Culvert Inform	ation											
Number of Culverts	1											
Pipe # Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 MAIN	-		1800		SP		65.8		152X51	3.0	ROUND	
Special Features	S	TORM WATE	R DRAIN	1								
Utility Attachments				Uti	ilities (L	_ocated	at)					
Telephone						Gas						
Power						Municipal						
Others							m (Y/N)	No				
Remarks						110010						
			A	oproad	ch Road	d / Emb	ankment					
	Last	Now		ation of		tion						
Horizontal Alignment				9	9	In sag curve, no passing both						
Vertical Alignment				6	6	directions. Poor sight distance to north. Grade approx 5%.						
Roadway Width (m)		9.400										
Embankment				3	3	Slide 3	Slide 3m high approx 18m from West road shoulder. Height of cover is from bottom of manhole to shoulder.					
Sideslope (:1)		3.0				Height Manho	ot cover i le betwee	er. h are about				
(Height of Cover(m) :	7.6)					500mn	higher t	han su	rrounding fill.			
Guardrail (Y/N)		Yes										
Approach Road / Emb	pankment	General Rat	ing	3	3							
						am End						
Culvert Component				Last	Now	Explar	ation of	Condi	tion			
Direction End Treatment (Concre	ete, Steel,	NONE		W								
Others, None) Headwall				X	X							
Collar				X	X							
Wingwalls				X	X							
(Shape :)												
Cutoff Wall				X	X							

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Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		N	N	(DAMAGED END - 2003/05/28)							
Heaving (mm)	600										
Invert Above/Below Stream Bed	ABOVE			(MINIMAL COVER ON U/S 4m OF BARREL - 2003/05/28)							
Above/Below (mm)	100										
Scour Protection		4	N	Slide 3m high on top of culvert.							
(Type : RIP RAP)			_	Snow covered.							
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		4	4								
	1			Slide/erosion 3m high on top of culvert.							
Beavers (Y/N)	No										
Upstream End General Rating		4	4								
		Bri	dae Cu	Ivert Barrel							
Culvert Component		Last		Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	n):	, Rise (mm): 1800, Type: SP)							
Barrel Last Accessible Date	26-Jul-2001			Culvert flowing at full capacity at u/s end. 300mm free space at d/s end. 26-May-2010							
				Only 200mm free spave at u/s end.							
Special Features											
Special Feature		N	N	Could not enter from d/s end.							
(Type : STORM WATER DRAI	N)			(Can't measure due to silt - 0010726) Manhole ditch drains to high &							
Special Feature				rusted thru-see photos, No change.							
(Type :)											
Roof		N	N	600mm x 200mm square hole close to manhole location.							
Measured Rise (mm)			IN								
Measured At Ring No.				-							
Sag (mm)	35			-							
Percent Sag				-							
Sidewall		N	N	Estimated sag - 01/07/26							
Measured Span (mm)	1265		IN	Hole in roof at ring 25, near manhole cir., seam 11 - crack (Photo)							
Measured At Ring No.	1203			_ 2003/05/28.							
Deflection (mm)	35			-							
Percent Deflection	2			-							
	۲ <u>۲</u>	NI	NI								
Floor		N	N								
Bulge (mm)				-							
Measured At Ring No.				1							
Abrasion (Y/N)		N I	NI	(Chope under reilug) 1000/1010, 0 erected							
Circumferential Seams	0	N	N	(Shape under railway 1960x1640, 6 cracked seam, railway section not rated-010726)(Barrel heaved in ditch @ manhole 500mm deep							
Separation (mm)	0			01/07/26)							
Longitudinal Seams	1	N	N	(CORROSION BY SOIL & WATER-01/0726)							
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										
Longitudinal Stagger (Y/N)	Yes										
Coating		N	N								
Corrosion By Soil (Y/N)	Yes			1							
Corrosion By Water (Y/N)				1							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bri	dae Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			, Rise (mm): 1800, Type: SP)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	Yes			(Lower half pitted rust. Negative camber under hwy & railway track 01/07/26) Ponding 1.5m @ d/s end.					
Fish Passage Adequacy		5	5						
Baffle		X	X						
(Туре:)			_						
Waterway Adequacy		4	4						
Icing (Y/N)	No			_					
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	General rating carried forward from 2003/05/28.					
		D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E		Note: This rating is for the CNR					
End Treatment (Concrete, Steel, Others, None)	NONE			outlet.					
Headwall		X	Х						
Collar		X	Х						
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		X	Х						
Bevel End		X	Х	Full of water.					
Heaving (mm)									
Invert Above/Below Stream Bed	ABOVE			Under water.					
Above/Below (mm)	200								
Scour Protection		N	N	(Scour d/s of outlet. 10-May-2010)					
(Туре : NONE)				Not evident due to snow level.					
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	N	(Scour d/s of outlet. 2003/05/10)- Not evident due to water level.					
Beavers (Y/N)	No								
Downstream End General Rating			4	GR carried forward.					

Structure Usage										
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		5	5	U/s channel makes 90 degree turn into culvert.						
				25m u/s of culvert.						
Bank Stability		7	7							
HWM (m below Top of Culvert)				HWM not visible						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	Yes									
(Fish Compensation Measure 1	NONE)									
(Fish Compensation Measure 2	NONE)									
Channel General Rating		5	5							

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73430 -1 Bridge Culvert

					Mainte	enance Recom	menda	ations						
Inspector Recommendations			Year	Year Inspector Comments				Department Co		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT	ACCUMULATION													
INSTALL CONCR	ETE/STEEL LINING													
INSTALL STRUTS	6													
INSTALL CONCRETE COLLAR/CUTOFF		DFF												
REPAIR SEAMS			2012	012 Replace culvert.										
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)			44.4/44.4 Sufficiency Rating (L (%)			ing (Last/Now)	2	9.9/29.9 Est. Repl. Yr 2012			2012	Maint. Reqd. (Y/N) Yes		Yes
Special Comments for Next InspectionRailway aware of pipe con Scheduled for replacemen Design currently underway Monitor slide at u/s end.			-18-Mar-2	2005	5			Department Comments						
Maintenance Rev	ewed By							Date			I	Estimated Tota	al O	
Proposed Long-Term Strategy														
On 3-Year Progra	m (Y/N)													
Proposed Action														
Previous Inspector's Name Brian			Brian Pientsch Previous A					Assistant's Name Lisbeth Medina						
Next Inspection Date 10-Oc		10-Oct-2013 Previou					/ious Ir	s Inspection Date 26-May-2010						
Inspection Cycle (Default) (months) 21		21												
Comment														