Bridge Culvert Inspection														
Bridge File Nur	Bridge File Number 75330 -1 Bridge Culvert						Form	Form Type		CUL1				
Year Built	1971						Lot I	No.		4				
Bridge or Town Name BALZAC						Insp	Inspector Name		Garry Roberts					
Located Over	SERVI	ERVICE ROADS;CPR					ector Class		BR CLS A					
Located On	2:15 R	15 R1 49.766;2:15 L1 49.870					Assistant Name							
Water Body Cl.						stant Class								
Navigabil. CI./Y					Inspection Date 0			09-Nov-2011						
Legal Land Loc	ation	SW SE	C 4 TWP 26 RGE 29 W4M [Data	a Entry By		Erin Roberts				
Longitude, Latit	tude	-114:00	0:05, 51:11:	04		Data	a Entry Date)	19-Nov-2011					
Road Authority	Transporta	ation (AIT	-)		Revi	iewer Name)	Joel Wozney						
Contract Main. Area CMA29)				Review Date			10-Nov-2011				
Clear Roadway/Skew 47 /							Dep	t. Reviewer	Name	Tim Davies				
AADT/Year		66,090	/ 2010 (A)				Dep	t. Review D	ate	21-Nov-2011				
Road Classifica	ation	RFD-6	16.6-130				Follo	Follow-Up By						
Detour Length	(km)	1												
Bridge Culvert	Inform	ation												
Number of Culv	/erts		1											
Pipe #	Barrel		Span	Ris	e (or Dia.)	Dia.) Type		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		7300	883	30	RPP		142.4		152X51	5.0	PIPE ARCH		
Special Feature	es													
Special Feature	es Comr	ment												
Posting Information														
Required Vert.	Clearan	ICE Post	ing (m)											
Posted Vertical	Cleara		N)	NO .										
Posted: Lane	Posted: Lane EB On Bridge (m) In Advance (Y/N) No Lane WB On Bridge (m) In Advance (Y/N) No											nce (Y/N) No		
Remarks	NOT R	eq.					//							
Litility Attachme	nto				0	unues	(Locat	ed at)						
	linity Attachments								Cross	os road South	of pipo			
I elephone In East ditch and South.					4		Mun	icipal	01055	es load South	or pipe.			
Othoro	Crosses road South and East end						Drok	lom (V/N)	No					
Duriers			a \Box a \Box a v				FIUL							
Remarks	FIDRE		,3 @ E-2 V	FOWER		ch Po	ad / En	hankmont						
					Last	Now		lanation of	Condi	tion				
Horizontal Aligr	nment				7	7	84r	8.4 m East service road						
Vertical Alignm	ent				8	8	8.7 m West service road.							
vortiour / ingritti	on						Inter	Intersection South						
							On s	On service roads East and West.						
Roadway Width	ח (m)		47.000											
Embankment					7	7								
Sideslope (_:1)		3.0											
(Height of Co	 ver(m) :	1.4)												
Guardrail (Y/N) Yes														
Approach Road / Embankment General Rating				7	7									
						Unst	eam E	nd						
Culvert Component				Last	Now	Explanation of Condition								
Direction					W		Wes	st end.						
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall				7	7									

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Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Collar			6	Wide cracks @ SW							
Wingwalls		Х	X								
(Shape :)											
Cutoff Wall		Х	X								
Bevel End		7	7								
Heaving (mm)	0										
Invert Above/Below Stream Bed	vert Above/Below Stream Bed BELOW			_							
Above/Below (mm)	1000		1								
Scour Protection		6	6	-							
(Type : NATURAL)				-							
(Avg. Rock Size(mm) :)											
Scour/Erosion		6	6	Minor erosion @ SW @ toe							
Beavers (Y/N)	No										
Upstream End General Rating		6	6								
		Brid	lge Cu	lvert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>): 7300	, Rise (mm): 8830, Type: RPP)							
Barrel Last Accessible Date	09-Nov-2011			Level 2 inspection completed Jan 28/10 See file for details							
Special Features											
Special Feature				(REPAIR SECTIONS RAISED 75mm in center and tie top and bottom -grouted after to form beams)							
(Type :)											
Special Feature											
(Туре :)											
Roof		6	6	Barrel extended at both ends. Original pipe is Rings 10-36 (from							
Measured Rise (mm)				west)							
Measured At Ring No.	asured At Ring No.			Eat							
Sag (mm)	210										
Percent Sag	3										
Sidewall		5	5	Span measured at 3 rings- R16-7227, R20-7143, R26-7090							
Measured Span (mm)	7090			Lower sidewall plates replaced & grouted on East & West end.							
Measured At Ring No.	26			approx. 100mm							
Deflection (mm)	210			Diagonal reference measurement taken at lower South sidewall to							
Percent Deflection	3			upper North sidewall R33=6983							
Floor		N	N	Floor covered in ballast							
Bulge (mm)											
Measured At Ring No.											
Abrasion (Y/N)											
Circumferential Seams		6	6	Some seams welded at extensions							
Separation (mm)	0										
Longitudinal Seams		5	5	Some seams welded at extensions							
Total No. of Cracked Rings	0										
Total No. of Rings with Two 0 Cracked Seams											
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N)	No			1N stagger at roof plates							
Longitudinal Stagger (Y/N)	No			1							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 7300	, Rise (mm): 8830, Type: RPP)						
Coating		6	6	Isolated corrosion stains at upper seams						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N) No										
Camber POS/ZERO/NEG NEG										
Ponding (Y/N)	No									
Fish Passage Adequacy		Х	X							
Baffle		Х	Х							
(Туре :)		1	1							
Waterway Adequacy	1	Х	X							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		5	5							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		E		East end.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall			7	Narrow cracks						
Collar		7	7							
Wingwalls		X	х							
(Shape:)		1								
Cutoff Wall		Х	X							
Bevel End		7	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	1000									
Scour Protection		5	5	Natural with some rock						
(Type : NATURAL, RIP RAP)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		5	5	200mm deep undermining @ NE under collar @ toe						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	5	5							
		S	tructur	e Usage						
		Last	Now	Explanation of Condition						
Grade Separation										
Road Alignment			X	Track bends inside barrel.						
Roadway Surface		7	7							
(Туре :)										
Icing (Y/N) No										
Traffic Safety Features		Х	X							
Туре										

Structure Usage										
				Explanation of Condition						
Lighting			Х							
Barrel Leakage (Y/N) Yes				Some active staining on roof.						
Drainage			6							
Structure In Use (Y/N) Yes										
Grade Separation General Rating			6							

Maintenance Recommendations														
Inspector Recommendations			Year Inspector Comments				Department Co	Target Ye	ear	Est. Cost	Cat #			
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT	ACCUMULATION													
INSTALL CONCR	ETE/STEEL LINING													
INSTALL STRUTS														_
INSTALL CONCRETE COLLAR/CUTOFF														_
REPAIR SEAMS														_
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														_
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)			55.6/55.	6	Sufficiency Rating (Last/Now) (%)		66.6/65.9		st. Repl. Yr	2030	Maint. Rec		qd. (Y/N)	No
Special Comments for Next Inspection	s from 2 011	010 Leve	el 2 inspec	ction to present leve	el inspection.	Department Comments								
Maintenance Rev	ewed By						Date				Estimated 7	「otal	0	
Proposed Long-Term Strategy														
On 3-Year Progra	m (Y/N)													
Proposed Action														
Previous Inspector's Name Ga		Garry Roberts				Previou	revious Assistant's Name Rex Davidson			1				
Next Inspection Date 0		09-Aug-2013 Previo					s Inspection Date 28-Jan-2010							
Inspection Cycle (Default) (months)		21												
Comment														