Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection																
Bridge File Nur	nber	79528	-1 Bridge C	ulvert				Form T	уре		CUL1					
Year Built		1981						Lot No.			2					
Bridge or Town	Name	EAST	COULEE					Inspector Name			Owen Salava					
Located Over TRAIL-ANIMAL, OVER SP								Inspector Class			BR CLS A					
Located On 10:08 C1 16.402								Assista	ant Name	•						
Water Body Cl./Year								Assista	ant Class							
Navigabil. Cl./Year								Inspec	tion Date		01-Nov-2011					
Legal Land Location NE SEC 6 TWP 28 RGE 18 W4M						М		Data E	Data Entry By Marcia Chavez							
Longitude, Latitude -112:31:12, 51:22:07								Data E	ntry Date	;	30-Nov-2011					
Road Authority	· · · · · · · · · · · · · · · · · · ·							Review	ver Name	;	John O'Brien					
Contract Main.								Review	/ Date		14-Nov-2011					
Clear Roadway	Clear Roadway/Skew 9.2 /							Dept. F	Reviewer	Name	Andrew Smikle	es				
AADT/Year 590 / 2010 (A)						Dept. Review Date 02-Dec-2011										
Road Classification RAU-210-110							Follow-Up By									
Detour Length (km) 20																
Bridge Culvert Information																
Number of Culv	/erts		1													
Pipe # Barrel Span Rise (or l				Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape					
1	MAIN - 2200						MP 21				75X25 3.0 ROUND					
Special Features CONC FLOOR																
Special Features Comment																
						_										
Required Vort	Clearan	no Post	ing (m)			Po	sting li	nformat	ION							
Required Vert. Clearance Posting (m) Posted Vertical Clearance (Y/N)																
Posted: Lane			N) Bridge (m)	ance (Lane SB On Bridge (m) In Advar										
Remarks		quired.	blidge (III)		n Auv	ance (1/11)									
Remarks	NOLIC	quireu.				l Iti	lities (l	ocated	at)							
Utility Attachme	ents						1100 (1		uty							
Telephone	North	ditch.				Gas		South	ditch (West).							
Power		h side.						Munici	oal							
Others									m (Y/N)	No						
Remarks	arks															
Ар							h Road	d / Emb	ankment							
						Last	Now	Explan	Explanation of Condition							
Horizontal Alignment					6	6	Curve to the East.									
Vertical Alignment					8	6										
Roadway Width (m) 9.200																
Embankment					6	6	East measured.									
Sideslope (:1) 3.5						Small dia. CSP 12m West.										
(Height of Cover(m) : 1.6)																
Guardrail (Y/N) No																
Approach Roa	d / Emb	bankme	ent General	Rating		6	6									
							Upstre	am End								
Culvert Compo	onent					Last	Now		ation of	Condi	tion					
Direction						N										
End Treatment Others, None)	(Concre	ete, Ste	el, NONE													
Headwall						Х	X									
Collar					Х	Х										

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		Х	X	-
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		Х	X	
Heaving (mm) 0				
Invert Above/Below Stream Bed BELOW				
Above/Below (mm) 150				
Scour Protection		5	5	Minimal grass.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bric	lae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	01-Nov-2011			
Special Features				
Special Feature			N	Silted over.
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		4	4	Est 2% deflection. Extended at North with 3m long 2.0m dia CSP.
Measured Rise (mm)				Localized dent in roof R3. 6 small perforations in R4, rated 4 as not under load.
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	2			
Sidewall		6	6	Isolated minor dents at ring ends.
Measured Span (mm)	2160			
Measured At Ring No.	3			
Deflection (mm)	40			
Percent Deflection	2			
Floor		N	N	Concrete floor silted over.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	4	Up to 60mm vertical @ splice.
Separation (mm)	60			R2 lapped correctly in flow direction. Infiltration (photos).
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

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		Brid	dge Cu	lvert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2200, Type: MP)						
Coating		4	4	Some pitting floor & outside roof @ both ends. Moderate sidewall corrosion.						
Corrosion By Soil (Y/N)	Yes			Moderate sidewall corrosion. S extension roof has perforations.						
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy		Х	X							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		7	7	Handles drainage.						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	4							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	·	S		Concrete poured around culvert at exit from sideslope, not a						
End Treatment (Concrete, Steel, Others, None)	CONCRETE			standard end treatment.						
Headwall		5	5	20mm crack.						
Collar		5	5							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		Х	Х							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	0									
Scour Protection		5	5							
(Type : NATURAL)		1	-							
(Avg. Rock Size(mm) :)										
Scour/Erosion		5	5							
Beavers (Y/N)	No									
Downstream End General Ratir	ng	5	5							
		s	structu	re Usage						
		Last	Now	Explanation of Condition						
Grade Separation										
Road Alignment		X	Х							
Roadway Surface		7	7							
(Type : SOIL)										
Icing (Y/N)	No									
Traffic Safety Features	1	Х	X							
Туре	None									

		S	tructu	re Usage
		Last	Now	Explanation of Condition
Lighting			X	
Barrel Leakage (Y/N) No				
Drainage			6	
Structure In Use (Y/N) No				No fences to N.
Grade Separation General Rating			6	

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				Maintenance Recommendations	ecommenda	itions					
Inspector Recommendations	ions	Year	Inspector Comment	Comments		Department Comments	nents	-	Target Year	Est. Cost	Cat #
OVERLAY DECK											
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP	P RAP										
REMOVE DRIFT ACCUMULATION	AULATION										
INSTALL CONCRETE/STEEL LINING	TEEL LINING										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF	OLLAR/CUTOF	L									
REPAIR SEAMS											
OTHER ACTION		2012	Seal circumferential foam to stop infiltrat	mferential seam gaps with expanding op infiltration.	i expanding						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)	ating (Last/Nov) 44.4/44.4		Sufficiency Rating (Last/Now) (%)		55.6/55.8	Est. Repl. Yr	2025	Maint. Reqd. (Y/N)		Yes
Special Culver Comments for Next Inspection	rt also handles (Irainage as p	er 24Nov199	Culvert also handles drainage as per 24Nov1994 comment at water adequacy.		Department Comments					
Maintenance Reviewed By	3y					Date		Es	Estimated Total	0	
Proposed Long-Term Strategy	ategy										
On 3-Year Program (Y/N)	Z										
Proposed Action	<u> </u>	2006.10.24 Bridges to review lack of usage.	idges to revie		afety. This is	a crown quarter b	guardrails for safety. This is a crown quarter but should contact lessee in two years to determine continued	essee in tw	o years to det	ermine conti	nued
Previous Inspector's Name		Owen Salava			Previous A	Previous Assistant's Name					
Next Inspection Date	0	01-Aug-2013			Previous Ir	Previous Inspection Date	11-Mar-2010				
Inspection Cycle (Default) (months)	t) (months) 21	2									
Comment											

					Mainter	nance Recommer	dations								
Inspector Recom		Year	Inspecto	or Comments		Department C	Comme	ents		Target Year	Est. Cost	Cat #			
OVERLAY DECK															
SHOTCRETE RE	PAIRS														
PLACE ADDITIO	NAL RIP RAP														
	ACCUMULATION														
INSTALL CONCE	RETE/STEEL LINING	3													
INSTALL STRUT													_		
	RETE COLLAR/CUT	OFF											_		
REPAIR SEAMS			2012												
OTHER ACTION				Seal circ expandi	cumferential seam	gaps with filtration.	Programmed				2013				
OTHER ACTION															
OTHER ACTION															
OTHER ACTION															
Structural Cond (%)	ition Rating (Last/N	low)	ow) 44.4/44.4 Sufficiency Rating (Last/Now) (%)				55.6/55.8 Est. Repl. Yr 2025			2025	Maint. Reqd. (Y/N) Yes				
Special Comments for Next Inspection	Culvert also handle	es draina	age as p	er 24Nov	1994 comment at	water adequacy.	Department Comments								
Maintenance Reviewed By And			<i>w</i> Smikle	s			Date	30-00	ct-2012	Estimated Total 0					
Proposed Long-Term Strategy															
On 3-Year Program (Y/N) N															
			2006.10.24 Bridges to review lack of guardrails for safety. This continued usage.					is is a crown quarter but should contact lessee in two years to determine							
Previous Inspecto	or's Name	Owen	Salava			Previous	s Assistant's Name								
Next Inspection	Date	01-Au	g-2013			Previous	s Inspection Date	e	11-Mar-2010						
Inspection Cycle	(Default) (months)	21													
Comment															