Bridge Inspection & Maintenance System (Web 2005)

						Bridge Inspection									
Bridge File Num	ber	70034 -1	Bridge			Ŭ	Form Ty			PCS					
Year Built/Year		1954/195					Lot No.		1						
Supstr							Inspecto	Inspector Name			Owen Salava				
Bridge or Town	Name	SUNDRE				Inspector Clas				BR CLS A					
Located Over		WALTON	CREEK	, 3.98.2,	WATER	CRS-ST	Assistar								
Located On		584:02 C	1 21.927				nt Class								
Water Body Cl./	Year						on Date		27-Oct-2011						
Navigabil. Cl./Ye	ear						Data Er			Marcia Chavez					
Legal Land Loca	ation	NW SEC	11 TWP	33 RGE	7 W5M			itry Date		Marcia Chavez 28-Nov-2011					
Longitude, Latitu	ude	-114:53:5	55, 51:49	21				er Name							
Road Authority		Alberta T	ransporta	ation (AIT	Γ)		Review			John O'Brien					
Contract Main. A	Area	CMA29							lame	13-Nov-2011 Andrew Smikles					
Clear Roadway/Skew 9.1 /									Andrew Smikles 28-Nov-2011						
AADT/Year						Dept. Review Date Follow-Up By				20-1107-201	1				
Road Classificat	tion	RCU-209	-110					эр ву							
Detour Length (I	km)	5													
Allowable Load	vable Load (t): Single CS1 28 Sem					CS2 49 GIRDER		Train		3 66 RDER		> On Critic >Critical M	cal Spans lember		
Design Loading: HS20												> Primary	Span		
						Posting I	nformation				1				
Required Load Posting (t) Single					Ser	ni			Truc	k Train					
Posted Loading	(t)	Single					Ser	ni			Truck Train				
Posted:	Lane	NB		At Junct	tion (Y/N) No	In A	dvance (`	Y/N)	No	At Bi	ridge (Y/N)	No		
Posted:	Lane	SB		At Junct	tion (Y/N) No	In A	dvance (`	Y/N)	No	At B	ridge (Y/N)	No		
Remarks	Not re	quired.													
Hazard Marker At Bridge (Y/N) Yes															
Remarks Too low.															
Other Sign Types Curve & 65km/hr SB															
Other Sign Type	es		Curve 8	. 65km/h	r SB, Cu	rve & 55kr	n/hr NB, N	Varrow Br	idge,	Bump.					
Other Sign Type	es		Curve 8	65km/h	r SB, Cu	rve & 55kr Utilities (idge,	Bump.					
Utility Attachme		ELEPHON				Utilities (idge,	Bump.					
	nts TI	ELEPHON side, conc				Utilities (at)		Bump. ing 150m sou	ıth.				
Utility Attachme	nts TI West s		NE UTILI ⁻ luit.	TIES-PH	ONE LIN	Utilities (E	Located a	at)			ıth.				
Utility Attachmer Telephone	nts TI West s	side, conc	NE UTILI ⁻ luit.	TIES-PH	ONE LIN	Utilities (E	Located a	at) (al			ıth.				
Utility Attachmen Telephone Power	nts TI West s	side, conc	NE UTILI ⁻ luit.	TIES-PH	ONE LIN	Utilities (E	Gas Municip	at) (al	Cross		ıth.				
Utility Attachmen Telephone Power Others	nts TI West s	side, conc	NE UTILI ⁻ luit.	TIES-PH	ONE LIN	Utilities (E West.	Gas Municip Problem	at) al (Y/N) I	Cross	ing 150m sou	uth.				
Utility Attachmen Telephone Power Others Remarks	Nts TI West s Cross	side, conc	NE UTILI ⁻ luit.	TIES-PH	ONE LIN vire 50m La	Utilities (E West. Approa st Now	Gas Municip Problem Ch Road	at) al n (Y/N) I ation of C	Cross No	ing 150m sou	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align	nts TI West s Crosse	side, conc	NE UTILI ⁻ luit.	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Approa IST Now 4 4	Gas Municip Problem Ch Road Explana	at) al n (Y/N) I ation of C o north an	Cross No Condit	ing 150m sou ion th.	uth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme	ment ent	side, conc	NE UTILI ⁻ luit. D0mm No	TIES-PH	ONE LIN vire 50m	Utilities (E West. Approa st Now	Gas Municip Problem Ch Road Explana	at) al n (Y/N) I ation of C o north an	Cross No Condit	ing 150m sou	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width	ment ment (m)	side, conc	NE UTILI ⁻ luit.	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Approa IST Now 4 4	Gas Municip Problem Ch Road Explana	at) al n (Y/N) I ation of C o north an	Cross No Condit	ing 150m sou ion th.	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme	ment ment (m)	side, conc	NE UTILI ⁻ luit. D0mm No	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Approa IST Now 4 4	Gas Municip Problem Ch Road Explana	at) al n (Y/N) I ation of C o north an	Cross No Condit	ing 150m sou ion th.	uth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N)	ment ment (m)	side, conc	NE UTILI ⁻ luit. D0mm No	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Approa st Now 4 4 5 5	Gas Municip Problem ICh Road Explana Curve to Hill to no	at) al n (Y/N) I ation of C o north an	Cross No Condit d sou uth. No	ing 150m sou ion th.	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail	ment ment (m)	side, conc	NE UTILI ^T Juit. Domm No 9.540 Yes	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Approa st Now 4 4 5 5	Gas Municip Problem ICh Road Explana Curve to Hill to no	at) al ((Y/N) I ation of C o north an orth & sou	Cross No Condit d sou uth. No	ing 150m sou ion th.	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	ment (m)	side, conc es road 3	NE UTILI ⁻ luit. D0mm No	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Ist Now 4 4 5 5 6 6	Gas Municip Problem ICh Road Explana Curve to Hill to no	at) al ((Y/N) I ation of C o north an orth & sou	Cross No Condit d sou uth. No	ing 150m sou ion th.	uth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail	ment (m)	side, conc es road 3	NE UTILI ^T Juit. Domm No 9.540 Yes	TIES-PH	ONE LIN vire 50m	Utilities (IE West. Ist Now 4 4 5 5 6 6	Gas Municip Problem ICh Road Explana Curve to Hill to no	at) al ((Y/N) I ation of C o north an orth & sou	Cross No Condit d sou uth. No	ing 150m sou ion th.	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	ment ment (m) ard (Y/	side, conc es road 3	NE UTILI ^T Juit. DOmm No 9.540 Yes 15.240	ries-phi	ONE LIN vire 50m	Utilities (IE West. Ist Now 4 4 5 5 6 6	Gas Municip Problem ICh Road Explana Curve to Hill to no	at) al ((Y/N) I ation of C o north an orth & sou	Cross No Condit d sou uth. No	ing 150m sou ion th.	ıth.				
Utility Attachmen Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Stand	ment ment (m) ard (Y/	side, conc es road 3	NE UTILI ^T Juit. DOmm No 9.540 Yes 15.240 No	ries-phi	ONE LIN	Utilities (IE West. Ist Now 4 4 5 5 6 6	Gas Municip Problem ICh Road Explana Curve to Hill to no	at) al ((Y/N) I ation of C o north an orth & sou	Cross No Condit d sou uth. No	ing 150m sou ion th.	ıth.				

				Supers	structure
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : PGO, 2 Sp	oans, Length	s(m): 6.1-6.1	, A-Ident	Numb	per:)
Special Features					
Special Feature				X	
(Type :)					_
Special Feature				X	_
(Type :)					
Wearing Surface/Deck Top	Detail Rating	IS			
N (%)	1 (%)	2 (%)	3 (%)		_
Last					_
Now 0.0	0.0	0.0	C	0.0	
Wearing Surface			6	6	Placed standard reinforced pyramet concrete overlay Oct. 7/91. Hairline longitudinal cracks between girder.
(Material Type : CONCR	ETE)				
(Thickness(mm) : 50)					_
Lateral Connection Probler (Y/N)	n Yes				
			N	N	
Deck Top			IN		
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles covered by overlay. Sawcut overlay between spans &
Bump (Y/N)	No				installed Šika Flex L.M. caulking Oct.91
Deck Drainage			7	7	
Drains Clogged (Y/N)	No				-
Curbs/Median			5	5	Blade scratches. Exposed rebar @ corners. Lift pockets deteriorated
(Curb Type : Standard)					- photo.
Scaling (Percent Area)	10				-
Bridge Rail			7	7	Double layer.
(Type : GALVANIZED S	TEEL FLEX E	BEAM)			
Bridge Rail Posts		· · · · · · · · · · · · · · · · · · ·	3	3	Nut @ east not tight & washer missing - photo.
(Type : TREATED TIMB	ER;TREATED	D TIMBER)			Flexbeam only.
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			Х	X	
Girder Detail Ratings					
N (count)	1 (count)	2 (count)	3 (cou	unt)	
Last					
Now 0	0	0		0	
Girders			4	4	A few with narrow shear cracks. Medium width flexural crack @ 2nd
Last Complete Inspection	Date 27-Oc	t-2011			from E @ S span. Wide cracks in bottom of webs of 7 girders.
Cracking (Y/N)	Yes				S2G10 & S1G9 with spalls & corroding longit. rebars - photo.
Spalling (Percent Area)	5				
Lift or Connector Pocket Grouted (Y/N)	Yes				
(Number Of Girders : 24)					-
Span Alignment Broblem	e				2 'A' curbs & 10 'G' interiors each span.
Span Alignment Problem Vertical (Y/N)	s No				
, , , , , , , , , , , , , , , , ,	No				-
Horizontal (Y/N)					
Superstructure General F	kating		4	4	

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

					ructure						
Bridge Com	ponent			Last	Now	Explanation of Condition					
Abutments											
(Extended	Backwall Piles	(Y/N) : N)				_					
(Extended	Backwall Piles	Spacing(mm)):)								
	er of Caps/Cor					A1P3 is out of alignment @ South. Steel capital gap void of grout.					
Bearing Seat	ts/Caps/Corbel					-					
	N (count)	1 (count)	2 (count)	3 (cou	int)	-					
Last	-		-		-						
Now	0	0	0		0	_					
	ts/Caps/Corbel	S		6	6	-					
(Type : ST	· · · ·					-					
(Depth(mm						-					
(Width(mm	· · · · · · · · · · · · · · · · · · ·				4	Vertical sheeting, horiz. on 4 corners.					
Backwalls/Br		2.40		5	4	Not low enough at NW & NE corners.					
					6						
Wingwalls					6						
(Total Numbe	er of Bearing P	iles : 8:8)				2 split piles - photo. Held in pile capital. South piles leaning North 10mm & cap leaning south 25mm - photos. A1P2 wide split - photo.					
Piles Detail Ratings						10mm & cap leaning south 25mm - photos. A1P2 wide split - photo.					
	N (count) 1 (count) 2 (count) 3										
Last						4					
Now	0	0	0		0	-					
Piles					4						
Paint/Coating					4	10% corrosion at caps.					
Abutment Stability					4	South piles leaning from backwall pressure.					
Scour/Erosion					4	Losing fill below planks at N corners. North slope eroding.					
Piers/Bents											
	R-COLUMN)					Gap between capital/pile not grouted - photo.					
(Total Numbe	er of Caps/Corl	bels : 1)									
Bearing Seat	ts/Caps/Corbel	s Detail Ratin	gs								
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last						-					
Now	0	0	0		0	_					
	ts/Caps/Corbel	S		6	6	-					
(Type : ST						-					
(Depth(mm						-					
(Width(mm	· · · ·										
_	er of Bearing P	iles : 8)				P7 has wide split and swollen at waterline. Steel jacket torn.					
Piles Detail F				- ·							
	N (count)	1 (count)	2 (count)	3 (cou		-					
Last	-	-			2						
Now	0	0	0		1	-					
Pier Shaft/Pi		0.00		3	3						
Greatest H		3.20			4	Come breeinge are notebally because about the start					
Bracing/Strut	is/Sneatning			4	4	Some bracings are notched; beaver chew marks.					
Nose Plate				X	Х						
Paint/Coating	g			4	4	Paint peeled @ cap flanges, South.					
	scription :)					Black.					
(Colour Co											
Pier Stability				6	6						
						3 of 5					

			Subst	tructure					
Bridge Component		Last	Now	Explanation of Condition					
Scour		4	4	Small scouring beside piles South side.					
Debris (Y/N)	Yes			Drift under bridge; old beaver dam.					
Substructure General Ratin	9	3	3						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel									
(U/S Direction : W)			Bends upstream and downstream.						
(D/S Direction : E)]					
Alignment		4	4						
Bank Stability			5	Cut banks East & West.					
HWM (m below Top of Curb)	0.8			(Grass on stiffeners in cap. 15/Mar/2006)					
Drift (Y/N)	Yes								
Slope Protection			4	Backwalls high with no protection at corners, N wall.					
(Type : RIP RAP; RIP RAP)								
Guidebank/Spurs		X	Х						
Adequacy of Opening		4	4	Stream/bridge opening angle differ.					
(Fish Compensation Measure	1 : NONE)								
(Fish Compensation Measure	2 : NONE)								
Channel General Rating		4	4						

on
ortati
nspc
Tra
erta
Alb

		Maintenance Recommendations	imendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	iments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Install washer and tighten bridge post nut east.	8				
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	NO						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Install steel pile jacket pier P7.					
OTHER ACTION	2012	Replace 1 pier brace plank, 3x12x20.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	ow) 38.9/38.9	.9 Sufficiency Rating (Last/Now) (%)	50.1/50.1	Est. Repl. Yr 2013	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy	2006.07.28 With	2006.07.28 With normal maintenance the bridge should be good umtil 2020 (Steel caps, overlay)	e good umtil 2020 (Steel	caps, overlay).			
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Dave Lam	Pre	Previous Assistant's Name				
Next Inspection Date	27-Oct-2012	Pre	Previous Inspection Date	24-Sep-2009			
Inspection Cycle (Modified) (months)	12						
Comment							

				Maintenance Re	commend	lations						
Inspector Recommendations	•	Year	Inspecto	r Comments		Department 0	Comme	nts		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2	2012	Install wa east.	asher and tighten bridge po	ost nut @	programmed				2013		
SEAL CURBS												
PATCH DECK												
OVERLAY DECK												
STRAIGHTEN/REPLACE MEMBERS	6											
WASHING												
SHOTCRETE REPAIRS												
CORE TIMBER CAPS/CORBELS												
REPAIR/REPLACE TIMBER CAPS												
REPAIR ABUTMENT SCOUR/EROS	ION											
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL STRUTS												
OTHER ACTION		2012 Install steel pile jacket pier P7. programmed								2013		
OTHER ACTION		2012	Replace 1 pier brace plank, 3x12x20. programmed							2013		
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/N (%)	low) (38.9/38.9 Sufficiency Rating (Last/Now) (%)			/Now) :	50.1/50.1 Est. Repl. Yr 2013			2013	Maint. Reqd. (Y/N) Yes		
Special Comments for Next Inspection						Department Comments	Repla	cement year c	hanged to	o 2019. DA		
Maintenance Reviewed By	aintenance Reviewed By Darron Ahlstedt						22-No	v-2012	E	Estimated Tota	1 0	
Proposed Long-Term Strategy								aps, overlay).	· ·			
On 3-Year Program (Y/N)												
Proposed Action								1				
Previous Inspector's Name	Dave La	am			Previous	Assistant's Na	me					
Next Inspection Date	27-Jan-	2015			Previous	Inspection Dat	е	24-Sep-2009				
Inspection Cycle (Default) (months)	39											

Comment